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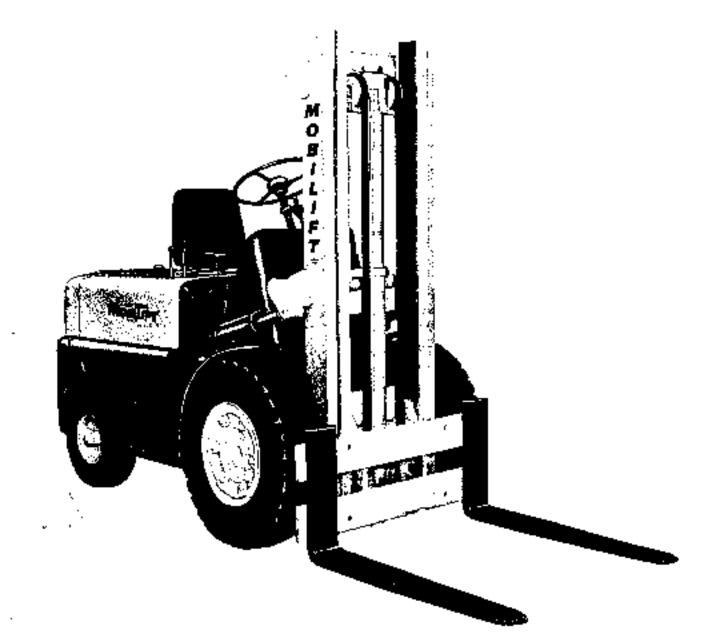


Fig. I-L.

#### CHAPTER 1

#### INTRODUCTION

#### Section 1. General Description

#### 1-1, SCOPE

- 1-2. This manual provides instructions on the operation traintenance and overhood of the MY Series Lift Tracks. Most of the instructions apply to both the MY 40 and the MY 60. Where there are differences, it will be noted either in the text or the paragraph heading.
- 1-3. It is strongly tocommended that all personnel considered with the various phases of this manual have a thorough knowledge, and understanding of the equipment and the instructions personing thereof, before performing any procedure with the equipment,

#### 1-4, GENERAL DESCRIPTION.

1-5. Due to its design and intended purpose, the equipment will be referred to as "life track" throughout this rushinal. Reference to either the right or left sides of the

Information of the mornial direction of the terms of the terms of the property of the second of the

- 1-6. The trucks can be equipped with either a gasoline of LP gas engine. The MY 40 has a capacity of 4000 pounds, the MY 60 a raparity of 6000 pounds, both at a 24 inch load center.
- 1-7. The life truck is a completely self-contained vehicle: Its power train consisting of a four-cylinder gaseline engine, a hydraulic torque emvetter, and a multiple disc clutch and power shaft type transmission. All these assemblies are integrally mounted regether, forming one compact unit, which in turn drives the front axie differential and the front drive wheels. A goar-type pump, driven from the engine cameshaft, supplies pressure to the hydraulic system. Electrical components of the lift truck utilize the current supplied from one 12-volt battery.

#### Section II. Detailed Description

#### 1-8. DETAILED DESCRIPTION

- 1-9. ENGINE. The engine (figure 1-2) is a four cylinder, four cycle gasoline of LP-Gas operated, valve-in-head type. Its normal speed with no load is 1750 type. One complete stroke is required for intake, compression, power, and exhaust, thereby providing one power stroke per cylineder for each two revolutions of the cranishaft.
- 1-10. TORQUE CONVERTER. The torque converter (2, figure 1-2) is a compact, complete, scaled unit consisting of an impeller, turbine, and single stage states. The charging pump is coupled to the ongine flywhool through the impeller but. The cill from the pump charges the converter, and the torque is multiplied by the states. The turbine is splined to the imput skaft in the transmission,
- 1-11. TRANSMISSION. The transmission (figure 1-2) is a power shaft gran box equipped with two pairs of hydraulically actuated multiple disc clutches. One set of clutches is inconted on the input shaft and controls the forward and reverse movement of the lift trunk. The other set is mounted on the output shaft, and determines either high or low range. The control valve receives pressure from an engine-driven bydraulic pump magnified on the transmission cover. The valve is controlled by the hand levers mounted on the steering column. An "inching" valve, innotporated into the centrol valve supplies only partial pressure to the clutches, when it is activated by the inching pedat. This feature provides very slow ground speeds at full engine speed.

- 1-12. INCHING SYSTEM. The inching system is controlled by the combination inching a braking pedal. (figure 1-7). The pedal actuates a valve which supplies a restricted pressure to the clutch. The clutch is thus allowed to slip, thereby delivering only partial power to the drive wheels, with a resultant slow ground speed.
- 1-13. DIFFERENTIAL AND DRIVE AXLE. See figure 1-2. Coupled to, and driven by the transmission platon shafe (curput), is the conventional type automotive differential. The assembly is provided with an internal gear reduction at the axle end, which forms an offset in the axle and allows a lower center of gravity for the lift truck. A common lubricant is used for the transmission, differential, and axles.
- 1-14. STERR AXLR. The rear a 1/11 and lift truck is supported by a heavy-duty axio easting which embodies the conventional wheel spindles, steering arms, the rods, and drag link which in turn is connected to the hydraulic steering becomes.
- 1.15. HYDRAULIC SYSTEM, The hydraulic tank is an integral part of the main frame, on the right hand side. A gear type pump draws fluid from the tank, to a control valve, and to the hydraulic steering booster. Fluid under pressure is available on demand at each of these components when the engine is aumiting. Return lines complete the circuit when the cylinders or booster are not in use. Extra valves are available for operating attachments. The system is controlled by hand lovers located conveniently to the right of the operator.

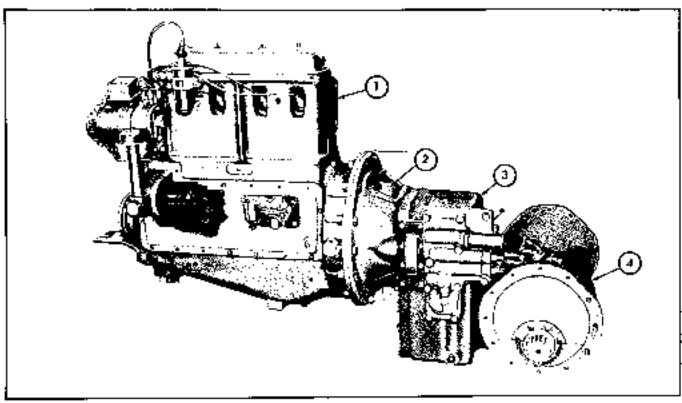


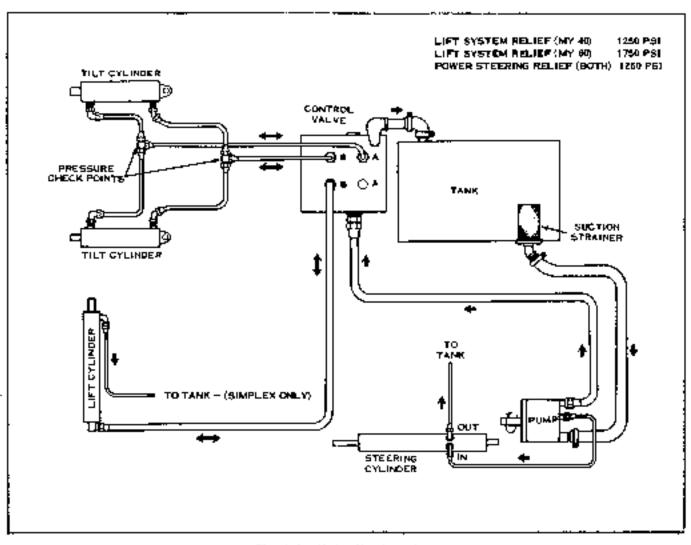
Fig. 1-2. Prover Train

- 1. Engine
- 2. Torque convertet
- 1-16. STYDRAULIC STEERING SYSTEM. Secoring of the lift truck is accomplished by an 19-inch diameter steering wheel, which is mounted on an automotive-type steering column. A hydraulic steering booster is incomparated into the drag link. As the steering wheel is turned, a valve in the booster opens, and hydraulic pressure from the hyperaulic system assists in turning the text wheels.
- 1-17. ELECTRICAL SYSTEM. The electrical system consists of a 12-volt battery, generator, voltage regulator, stamer, coil, and distributor. The battery is the basic somewhat electrical current; the generator maintains the battery harged condition; and the voltage regulator governs the property of voltage output into the electrical system. Head and property agents are available as optional equipment.
- 1-18. LIFT AND TILT ASSEMBLY. The laft and tilt assembly consists of an upright torks, a laft cylinder, and more tilt cylinders. The lift and tilt merchanism is controlled by hand levers located at the right of the operator's seat. The truck is capable of lifting its rated load from ground level up to a specified height, depending on the mast assembly on the truck. The unright can be tilted from 6" forward of vertical to 120 aft of vertical (other degrees of tilt optional). A restrictor valve in the system provides that the load will not drop at a rate of more than 80 feet per minute in case of hydraulic fallure or damage to the lines.

- 3, Transmission
- 4. Differential

### 1-19. SERVICE AND PARKING BRAKES.

- a. The heavy duty type service brake uses two identical. brake shoes which are anchored against individual anchor oins mounted in a spider fastened to the axie. Individual shoo retern springs, earth hooked between an anchor pinand the underside of its shoe table, hold the shoes anchored, A brake backing place, insorted behind the spider, supports the brake wheel cylinder and provides three shop support page for each stop against which the shoes lest. Shoes are loosely Reld on the hacking plate by hold down plus and spring clips, two being used on the secondary shoe, one on the politiary slide. Opposite the anchor, brake shoes are linked. by a floating star wheel adjuster and a single retracting. spring brooked between the shee tibs so that it engages and locks the star wheel. The stat wheel is reached through a slot in the backing plate and is used to expand the slices as required to adjust lining objectance. The star whool link causes the shoes to function as a single compound unit. Inoperation, one shoe. Copending upon date recation, leaves its anchor. (The "primary" shoe is dragged from its anchor by forward dram coration while the "secondary" shoe remains anenoted. In severse drum solution, the "secondary" shoe is the one leaving the anchor.)
- b. The same brake snoes are utilized in a cable operated packing brake. A toggle lever, pinned to the rib of the secondary shoe, cugages a connecting link, planed to the primary slove rib. The parking brake cable is connected.



Pig. 1-3. Hydraulic Flow Diagram

at the opposite end of the toggle levet. When the cable is pulled taut, movement of the toggle lever on its fulcium plin causes the connecting link to expand the shoes into the brake from.

1-20. FUEL SYSTEM (GASOLINE). A 10-gallon gasoline fuel tank is an integral part of the frame on the left hand side. It contains a "protected" safety filler cap. The fuel suction line originates at the fastice buttom of the tank and arranges at the unper right hand connet of the tank, thereby preventing loss of fuel should a fuel line be broken. A plug is provided at the tank bottom for fuel drainage and cleaning. A fuel shur-off valve is installed in the flexible hose leading from the tank to the fuel pump.

1-21. FUEL SYSTEM (LP-GAS). The LP-GAS system consists of a replaceable tank (33-1/2 pound capacity), a filter, a converter, and the carburetor. The fuel is confined to the tank as a litural voice pressure. When the valve is opened, the liquid passes to the converter where it is changed into a gas, and then is metered to the nathereture.

- 1-23. COOLING SYSTEM. Cooling of the engine is accomplished by an 19-inch, six-bladed pusher type fan (3, figure 1-19) and a water circusating pressure system radiator. The horror portion of the radiator is designed with colls to cool the torque convener fluid.
- 1-23. EXHAUST SYSTEM. Engine exhaust vapors are vented out of the exhaust manifold on the upper left side of the engine, down through a muffler and out of a tail pipe at the rear of the lift truck.
- 1-24. STAVICING ACCESSIBILITY. See figure 1-4. Raising the appropriate bood section and prouping it open with the support rod provides easy access for servicing the battery, air cleaner, generator, starter, distributor, spark plugs, fan helt, engine and transmission oil supplies, filters, and dipeticks. The radiator and fuel tank are services externally. The hydraulic tank fill tube is located under the right head bood section.
- 1-25. WHERLS AND TIRES. The broke droms for the drive wheels are included in the wheel conters. The pressures are given in garagraph 2-9.

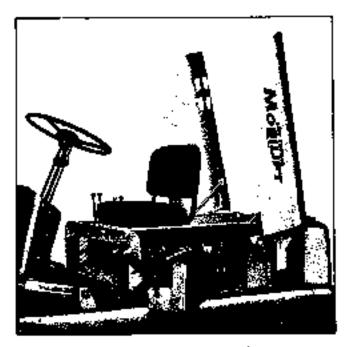


Fig. 1-4. Servicing Accessibility

1-26. SEAT. See figure 1-5. The soat is adjustable formward and backward. The release handle is located on the right side of the seat frame.

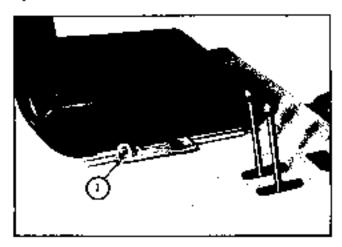


Fig. 1-B. Scat

### t, Release bandle

# ENGINE SPECIFICATIONS:

Make
Bose and attoke 3-3/4 x 5 fm.
Number of sylinders
Dispiscement
Fe,/lb, torque @ 1800 rpm
Ft./Ob. totque peak @ 1200 rpm
CRANKSHAFT
Material
Bearings 5 precision
From and intermediate 2-3/4 tm. dia. x 1-5/8 in.
Reur 3 En. Cla. 2 2-3/16 in.
CYLINDERS AND HEADS
Costange and the contract of t
N(ateria) special alloy east from
CONNECTING RODS
Style Drop-forged smeel, hear-treated section
Bearings 2-5/8 in. x 1-1/4 in.
PISTONS Aleminato Alloy
Rings 4
Compression two 3/32 in. wide
Off
PUNS full fleating
Bearing (in red) 1 in. x 1-3/8 in.
CAMSHAFT
Number of bearings
Drive
VALVES AND VALVE MECHANISM
Tappets barrel ported
Intake values
Exhaust valves alloy steel, 1-11/64 im. die. port.
Exhaust valve seat Inserts , , , , , , , , , , , , , , , , , , ,
TONLITON
Gus and IP gas 1 12-volt battery
Spack Flugs 18 mm
Generator capacity 20 smps
Regulator napacity
LUERICA TION Pressure polims to rod, main and camshaft bearings,
timing goas, valve mechanism
Pullup gear
Locationsubmerged in sump
Capacity 6 gpm at 30 pts
Hiller full flow with replaceable spin-on element
Crankcase capacity
Oit level gauge
Pressure gauge
COOLING SYSTEM
Pittipcentrifuge) V-belt drive
Capacity 40 gpm at 1800 tpm
Fan
Radiator depactly
Core flat tube and fin type

# DIMENSIONS AND SPECIFICATIONS

	MEY 40	<u>MY 60</u>
Capacity @ 54 in. load center	4860 15-	AARR 11
Inch pound rating		6000 lbs.
Free Lift	*******	264,000
THE MAL THE MALE THE PROPERTY OF THE PROPERTY		
Tel sciobe a serviciónio	64 in. Duplex	60 in. Duplex
Weightservice Tilt 6° forward	++-++++ 83911 195.	9850 lbs.
TELL P. LOUMAND ************************************	ubtrutat 82 tolmara	Optional B <sup>D</sup> furward
	optional Of forward	optional 00 (grwaid
Tit 120 back	optional 10° back	optional 10° hack
Length less for)is		112 in.
width-single drive tires		53 jn.
dual drive tires		69 ln.
Wheelbase		72 in.
Underclearance mast		5 tπ.
септет	#+.8-l/2 in,	7-3/9 in.
Turning Radius outside	85 in.	98 in.
Turning Radius inside	•••••• 11 Jn.	19 ln.
Turns in intersecting aidles	72 io.	89 iπ,
Engine bbp (Sea level calculated) @ 1800 ppm	58	58
Speeds (MPH) High	Range Row Range	High Range Low Range
Forward 0 -		9 - 12 P - 7.5
Reverse #++++++++++++++++++++++++++++++++++++		0 - 13 0 - 7.5
Speed of lifeloaded		56 քրտ
Fuel capacity ************************************		18 gals.
Protectoscal gas cap	standard	standard
1P gas (optional)	93-1/2 lbs.	39-1/2 Jhs.
TiresSteer	- 6.00 x 9 x 10 ply :	7:60 x 10 x 10 ply
Single drive (Standard)	7:50 x 15 x 12 ply	8:25 x to x 12 ply
Dual drive (Optional)		7:50 x 15 x 10 ply
NOTAT (Optional)	landnated tubber	latisfacted rubber
Tread-steer		42-3/16 in.
single drive	36-1/2 in.	43-1/2 in,
Standard fork length	42 in-	' 43 іл.
Conter of drive axie to face of forks		20-1/2 ln,
Camiage=estandard (ITA)	+ 44 in,	48 in.
Carriago extra wide (optional)	60 (n.	72 in,

#### CHAPTER 8

#### OPERATING INSTRUCTIONS

#### Section 1. Initial Preparation For Ose

#### 2-X. SERVICE UPON DELIVERY.

- a. UNLOADING. Since the lift truck may be shipped from the factory to a number of ways, no attempt will be made to cover all methods of unloading procedures. The trucks were sligged from the factory is accordance with standard shipping procedures, and skould be included from their earners in a safe. Togleal manner.
- 9-2. REMOVAL OF PROTECTIVE MATRIALS AND DISASSEMBLED COMPONENTS. Remove any protective tape or padding from the lighting components of the lift truck. Remove any components that have been packaged separately and attached to or shipped with the lift truck refer to the Table of Contents and note the page number on which that component is listed. Install the component accordingly.
- 2-9. VISUAL INSPECTION FOR SHIPPING DAMAGE, Although every attempt has been made at the factory to pretect the equipment against damage during ship-thent, it is possible for some damage to be incorred. It is necessary, therefore, that a careful, visual inspection he made of the lift truck upon delivery and before placing it in operation. It is further recommended that a written record he maintained which outlines the nature of the damage, and the urgency required in its correction.
- 2-4. SERVICE PRIOR TO USE, The following procedures are to be accomplished before operation of the lift stucks

#### 2-S. DATTERY.

a. The battery is shipped without electrolyte. Bajse the left hand section of the hood, remove the battery from the life truck, and discard any year plug seals. Fill all cells to the proper level with electrolyte. Allow the battery to stand for about 20 minutes after filling.

### WARNING

Electrolyte can born of damage the eyes, skin, or clothing. What safety glasses to prevent damage to the eyes due to splatned electrolyte. If electrolyte is spilled on the skin of electroly efficience listery with a solution of baking soda and water, or some other compalizing agent, then flush oil with clean water.

b. Code date the battery according to the month and year. Stamp the code on the intercell confector nearest the negative terminal of the battery. The fits number of the code indicates the month (1-January, 2-Feb:0ally, etc.), and the second number indicates the year (1-1981, 2-1968, etc.).

- c. Give the battery a booster charge after it has been filled and dated. Fast charge for at least 10 minutes at the rate of 30 to 40 amps; or slow charge for at least 30 minutes at 10 amps. See paragraphs 2-7, 3-8, and 3-9 for haptery service procedures and data.
- d. If any electrolyte spilled on the pattery. Itush it off with clean water. Dry the battery before installing.

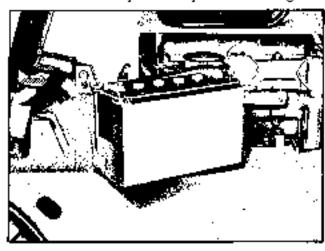


Fig. 1-6. Dattery

- The pattery has a negative ground. Install it with the negative terminal toward the front of the truck.
   Install the clamp and cables.
- Erf., ELECTRICAL SYSTEM. Inspect wiring and connections. Actuate light switch and inspect the lights for proper response. Place ignition switch "ON" and test for electrical current to that component. With switch. [17] test hom,
- 2-7. FUEL SYSTEM (GASOLINE). Open the fill rever of the first tank located on the left side of the lift truck: fill as necessary with a good grade of regular gasoline. Close the tank cover, and padiotik if desired. Wipe the tank free of dirt or fact ness leakage, and inspert fuel line and engine-mounted accessories for signs of fuel leakage at their connections. Open shut-off valve located on fuel tank-to-fact pump line.
- 2-8. FUEL SYSTEM (12-GAS). Open the valve on the fuel supply tank. Check all connections in the fuel line for evidence of leaks. A leak will result in a featestion of frost at the point of the leak.
- 2-0. WHEELS AND TIRES. Inflate from tires to 85 periods and read tires to 80 pulsads pressure. Inspert tires very closely for nails, glass, or any other foreign particles that may impair the life.

2-10. HYDRAULIC SYSTEM. Remove the breather capfrom the hydraulic tank located on the right side of the lift trunk. Fill as necessary in accordance with the lobrication instructions given in figure 1-10. The capacity of the system with a duplex cylinder is 12 gallons, with a sample's cylinder, 11 gallons. With the mast fully raised and cill in the lines and cylinder, the bit should be up to the "Full" mark on the dipsness.

2-11. LUMMICATION. The lift trucks are completely serviced prior to delivery with high-loants specified for the ambient factory temperatures, and dread require no further high-carried at point of delivery unless temperatures differ greatly from those at the factory. If such is the case, service the lift truck according to the label-cation plant, figure 1-10.

2-12. LIFT TRUCK BRIDY. Inspect all sheet metal and fabricated parts for distention or damage. Tighten all screws and nuts, particularly those of the steering wheel rolumn, lustrument panel components, and brake and accelerator pedals.

2-13. COOLING SYSTEM, Remove the engine radiator cap and inspect the coolant level. If weather is shown freezing temperatures, add clean water until it covers the tablator core as seen through the fill can opening. For operation in sub-freezing temperatures, provide the 18.5 quart capacity cooling system with a good grade permanent anti-freeze solution. Inspect for coolant leakage at all countections,

### Section II. Operating Instructions

#### 9-14. STARTING THE LIFT TRUCK.

- a. If the lift truck is equipped with an LP-Gas engine, open the valve or the tank slowly. If the valve is opened too fast, an excess flow valve will snap shut and stop the flow of fuel. If this happens, close the valve and wait for a "click". This will indicate that the pressure has equalized up both sides of the excess flow valve. Then open the tank valve slowly.
- b. Position the forward-reverse shift lever (1, figure 1-8) in mentral. A neutral starting switch prevents the engine from starting unless this lever is in neutral.
- r. Turn the ignition switch (11, figure 1-8) to "ON".
- d. Depress the starter button (10, figure 1-8) and release it as soon as the engine starts. De not depress button longer that eight seconds. If the engine falls to start on first try, allow the engine and starting motor defive to come to a complete stop before making a second attempt. This will prevent damage to the starting motor housing, the drive, and the flywhent ring gear. On a gasoline engine, it may be necessary to use the choice (6, figure 1-7). When the engine starts, allow it to gradually warm up to its normal operating competative (approximately 1909 F.). Do not race the engine during this warm-up period,
- e. Normal procedure would be to shift into either high or low gear from neutral with the lower lever, and then shift into either forward or reverse direction with the upper lower however, no damage will result if the direction is selected first and then the year range desired. Both Jovers must be shifted into an operating position before the lift truck will move.
- L. Apply four pressure on the accelerator pedal and steer the lift truck in the direction selected.
- g. Refer to Table 1 to correct any malfunction of the lift truck or its components under operating conditions.

#### CAUTION

If, after starting the engine, there is very little of no pressure indicated on the engine oil pressure gage, or if there is a sudden drop in pressure white operating the lift truck, stop the engine immediately and determine the cause. Correction usually consists of replenishing the translates oil supply. I beated on the instrument panel is a not warning light (3, figure 1-8). This tighs will ginw only when the transmission labricant temperature is excessive, and indicates that the transmission oil supply is dangerously low and must be insmoduately replenished before further lift truck operation.

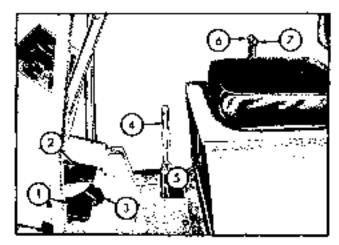


Fig. 2.T. Controls

- i, Inching pedai
- Brake pedan
- 3. Accelerator pedal
- 4. Parking brake
- 5. Cheke button (gasoffice only)
- 6. Thir leves
- 7. Lift lever

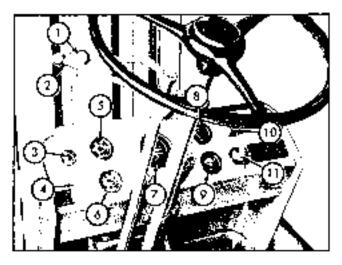


Fig. 1-8. Instrument Page!

- 1. Forward reveise tove:
- 2. Effgit low range lever
- 3. Transmission warning light
- 4. Light switch location
- Tompetature gage.
- 6. Oil pressure gage
- 7. Hourmerer
- Fuel gage
- 9. Ammeter
- 10. Starter button
- 11. Ignition switch

#### 2-15. LOADING PROCEDURE.

- a. Drive the lift timek into position as near the luad's center of weight as possible. Place one of the transmission shift levers in neutral; position the focks slightly below the level of the load, drive the grank lowerd (mtil the forks are directly beneath the load. If the depth of the load permits, drive forward (mtil the load is against the back rest.
- Apply the service brakes while lifting the lead.
- c. Move the kift control handle (closest to operator) to the tear to raise the load. If the nature of the load permits, move the tilt control handle to the rear, to tilt the load rearward against the back rest for maximum stability.
- d. For maximum safety and stability, party the load just high enough to elear obstacles or one year terrain.

### 2-16. UNIOADING PROCEDURE.

- a. Drawe leaded life truck to unleading area and postton for unloading. Apply the solvice brakes, and move one of the transmission control leven to neutral.
- b. Move lift control lever until load is lowered to the ground or is at the desired height for stanking. If load was tilted transport against back rest while transporting, move tils centrol lever forward until most is vertical.

- a. Release brakes, place transmission control lever in operative position, and move lift truck slewly forward until load is in desired position. Apply brakes and salft transmission into neutral.
- d. Lower focks until they are colleved of lead's weight. Back up lift truck mer; I forks are clear of load. Lower forks to safe transport position.
- 2-17. INCHING CONTROL. The inching valve is composed by the left hand pedal on the combination braking-facility pedal assembly (figure 1-7). Depress the pedal slightly with the left foot use just the portion or pedal travel before the brakes can be felt to take hold. Depress the accelerator pedal with the right foot. Extremely flow ground speeds can be attained for operating in confined or dangerous areas, while the speed of the life remains normal.

#### 2-18. STOPPING THE LIFT TRUCK.

- a. Drive the lift truck to an area suitable for parking and place the transmission control levers in neutral. Apply the parking brake.
- b. Tite the mass slightly leaward and lower the forks to the bottom of the mass.

#### WARNING

Unless conditions provent, always unload forks and lower them to buttom of mast before leaving lift touck, to avoid danger to personnel,

- If the headilight was used, posh in the light switch to turn off the light.
- d. Turn the Ignizion switch to the "OFF" position.

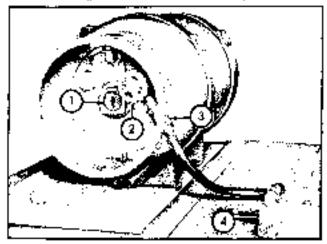


Fig. 1-9. LP-Gas Tank

- I. Gage
- 2. Final uplys
- 3. Quick complet
- 4. Relief valve

2-19. CHANGING LA-GAS TANKS. To change 1P tanks, close the fuel valve. Disconnect the quick couplet, and release the clamps. Lift the tank out of the bracket. Install the new tank, secure it with the clamps, and connect the quick couplet.

SMPORTANT: THE LP WANK MUST BE FILLED IN ACCORDANCE WITH ICC AND LOCAL REGULATIONS.

- 2-20. SAFETY PRECAUTIONS.
- 2-21. The Softoning safety precautions must always be observed:
- a. Firther should be thoroughly familiat with the lift truck, its capabilities and its limitations, before attempting its operation. Never attempt operation of a lift truck known to be builty.
- Provide adequate ventilation in operational atea;
   a void prolonged operation in enclosed areas.

- Constantly check for personnel and obstacles in path of both lift truck and load; keep lifting focks in driver's ylew whenever possible.
- d. Transport load at lowest practical level, for maximum stability and visibility. Avoid sudden stups, sharp come in either direction, and excessive speed.
- e. Never leave the lift track unattended with engine running or load elevated. Lower forks to bottom of mast and apply parking brakes before leaving lift truck,
- f. Strap or otherwise secure load to partiage when descending grades steeper than 16 degrees from horizontal in a forward direction. Do not affecting operation of loaded 11ft truck on ascents or descents greater than 20 degrees.
- g. Do not attempt to lift of transport loads that exceed the rated capacity of the truck.
- b. Always secure forks in position with lock levers,
- Close the tank valve on an LP-Gas unit when leaving the truck unattended.

#### Section III.

#### PRINCIPLES OF OPERATION

- 2-92. Instruments and Controls (See figures 1-7 and 1-8).
- 2-23. On PRESSURE GAGE. The oil pressure gage (6, figure 1-8) does not indicate the amount of oil in the grankcase; it indicates the pressure of the oil in the engine lubricating system. The gage electrically senses the oil pressure and reflects it on the gage dial. With the engine at normal operating temperature and speed, the oil pressure should be between 25 and 35 pounds.
- 2-24. (NGINE TEMPERATURE GAGE. This gage (5, figure 1-8) indicates the temperature of the cooling fluid. Engine operation under normal conditions should register approximately 150 degrees on the gage. Temperatures excessively higher or lower than 180 degrees indicate a dirty or restricted radiator, or has of coolant. Do not operate the lift stuck until these conditions are contexted.
- 2-25. EGNITION SWITCH. The lightion switch (11, figure 1-8) is a means of opening and closing the tightion circuit, the engine is inoperative unless the switch is turned "ON".
- 2-26. STARTER SWITCH. Depressing the starter switch (10, figure 1-8) with ignition switch "ON", energizes the starting motor which in turn drives the engine flywheel ting gear until combination takes place in the engine.
- 2-27. AMMETER. The ammeter (9, figure 1-8) indicates the activity of the electrical system. If the needle in-

- dinates a continuous discharge when the engine is operating above an idle speed, the trouble would probably be a loose or broken fan belt, a short in some wire or component of the electrical system, or a faulty generator or regulator. The gage needle should move slightly to the positive side of the "O" mark on the autometer when the engine is running at full governed speed and the battery is fully charged.
- 2-28. HOURMETER. The hourmeter (7, figure 1-8) ter-Docts the actual hours of engine operation. Its main purpose is to be the determining factor as to when the lift truck components require overbaul procedures.
- 2-29. WARNING LIGHT. The red warning light (3. figure 1-8) senses the transmission oil temperature and glows only when the temperature is in excess of proper operating limits. This condition is usually remedied by bringing the transmission oil level to full.
- 2-30. FUEL GAGE
- a. Gasoline. The fuel gage (8, figure 1-8) electrically senses and indicates the amount of fuel in the lift truck fuel tank.
- b. LP-Gas. The gage (1, figure 1-9) indicates the amount of LP-Gas in the tank,
- 2-31. CHOKE CONTROL, (Gasoline only). The choke control button (a, figure 1-7) is cable connected to the choke disc in the carboretor assembly. Pulling forward on the choke button closes the choke disc, thereby enriching the sir and gasoline mixture and providing quicket

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starting of a cold engine. Push the choke button in as the engine waters up to operating temperature; if all carburator settings are correct, the resulting fuel mixture will be correct for proper engine operation.

2-82. LIGHTING SYSTEM (OPTIONAL). Pulling ourwardly on the light button (4. figure 1-8) closes the circuit to the lights, thereby energizing them from the current supplied by the battery. Returning button inwardly toward the panel opens the circuit, and renders the lights inoperative.

2-33. POWER TRAIN (ENGINE AND TRANSMISSION). With the ignition switch in the "ON" position, actuation of the vertous components is achieved in the following sequence: Depressing the statter button energizes the statting motor which is photon meshed with the engine flywheel ring gear teeth. As the ring goat is cotated by the starting motor, the crankshaft is forced to rotate. It is at this point that fuel vapon enter the piston chambers and are syntred by the electrical impolse delivered by the spark plugs. The synchronized fitting order of the

spack plugs produces a continuous source of driving energy for the crandshaft. The transmission is inter-connected to the engine by a torque converter and plate arrangement, and a series of multiple disc clotches in the transmission allows the operator a selection of two speeds in either leavard or reverse direction, and also a neutral position when no travel is desired. The transmission is in sum geared to the differential of the drive axis by means of a bevel pinion and ring gear. Shifting of the levers results in rotating the axis shalts in a clockwise or counterclockwise movement, depending upon which gears are engaged within the transmission housing.

2-34. HYDRAULIC SYSTEM. The hydraulic pump provides a constant flow of hydraulic fluid under pressure when the sugine is running. The control lever direct the flow to the lift or tilt cylinders of to the hydraulically actuated attachments. Pluid is also supplied directly from the pump to the hydraulic steering becaret. Return passages in the system provide a complete circuit for the fluid when the cylinders are not being utilized.

#### CHAPTER 3

#### FIELD MAINTENANCE

#### Section I., Lubrication

#### 3-1. LUBRICATION INFORMATION.

- a. The lubrication chart (figure 3-18) illustrates lubrication points of the lift truck and prescribes approved lubricants, recommended intervals, and application procedures.
- b. In order that the lubricents can accomplish the protection for which they were intended, they must be kept free from dust, dirt, water, or other forms of containingnts.
- Wipe each lubrication fitting clean with a cloth before applying lubricants.
- d. Apply only the grade of tubifcant specified for operation under the temperature ranges indicated.
- If is recommended automotive practice to operate
  the lift truck immediately after a complete lubrication
  change in order to distribute the lubricant most effectively.
- Special or detailed instructions for servicing the lift truck components are outlined in the lubrication chart under "NOTES".

#### Section it. Preventive Maintenance Services

#### 3-2. PRRIODIC IN-SERVICE MAINTENANCE.

- 3-3. GENERAL. The instructions contained in this section are intended to sid the operator in maintaining the lift truck in an efficient, trouble-free condition. It is the purpose of this sention to acquaint the operator with the possibilities of equipment mathinetion, the indications of malfunction, and the corrective measures to be taken. Thorough understanding of the instructions by the operator is required to prevent minor malfunctions from going unnexteed until a part or a system is damaged beyond repair, resulting in removing the lift truck from service for extended periods,
- 3-4. SPECIAL MAINTENANCE TOOLS. No special tools are required by operating personnel to maintain the life truck in serviceable condition. Standard tools, commonly used by automotive mechanics, should be made available to the operator.
- 3-5. MAINTENANCE CHARTS. In addition to, and summarizing the procedures of this section. Table I is prosented in chart form to provide the operator with a ready reference as to typical troubles, the probable cause, and remedy procedures required.

#### 3-6. FLICTRICAL SYSTEM.

### NOTE

Disconnect battery ground cable before worlding on electrical components.

8-7. 9ATTERY. Rattery "life" depends entirely upon proper care and thorough periodic inspections. The most important service in maintaining the battery, is to inspect the electrolyte (liquid) level daily. Addictifuled water until the tops of the plates are covered approximately 1/8 inch. If distilled water is not avail-

able, use clean tain water or regular directing water that is low in inferral content. Since the water and the electrolyte in the battery will not mix until charged by the generator current, make a practice of operating the engine for a minimum of one hour after filling if the danger of freezing exists.

#### WARNING

If the hattery electrolyte is accidently spilled or comes in contact with skin or clothing, immediately apply baking soda or a similar neutralizing agent,

8-9. Use an accurate hydrometer to check the electrolyte specific gravity. When fully charged, the reading should be 1.240 to 1.260 at a llugid temperature of 800 ft. Wide variations from this reading between the cells indicates a faulty battery, and requires replacement with a new battery.

#### WARNING

Since the hatteries release highly flammable hydrogen gas when being charged, keep all forms of sparks or flame away from lift truck,

- 3-9. Wash batteries clean with solution 1/2 pound halding soda mixed with 1 quart of water, apply with a brush, and flush with clear water. Prevent solution from entering vent holes; anake sure holes are open after cleaning. Apply a light film of potroleum jolly to the hattery terminals and cable clamps to regard corresing.
- 3-10. GENERATOR. In addition to maintaining the generator (1. figure 1-17) in a clean condition at all times, a more detailed inspection of the brokhes and commutator is required every 500 hours of operation. With the generator mounted on the engine, remove the commutation.

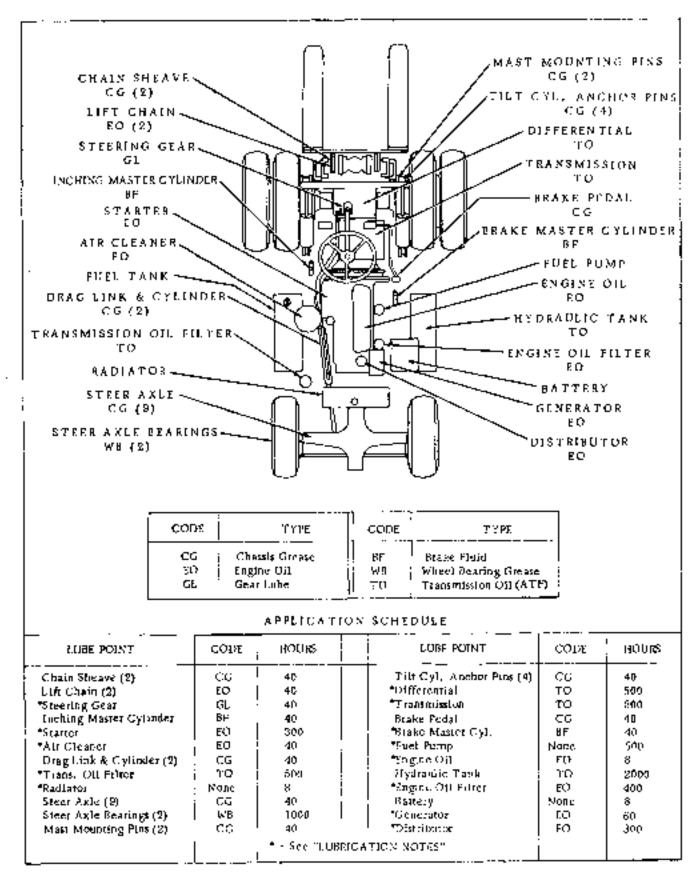


Fig. 1-10, Lubracation Chart (Sheet 1 of 2)

#### LUBRICATION NOTES

Hours lighted in "APPLICATION SCHEDULE" refer to actual hours of machine operation. Bracketed ( ) numbers indicate similar lubrication points requiring tubrication. An asterisk ", indicates detailed jubrication instructions as fellows:

- \*AIR CLEANER. Service six cleaner every 60 operating hours of oftener as required. Remove and empty oil cup. Scrape out rediment and wash cup thoroughly. Refill cup to level mark with same grade oil as used in engine.
- \*STEERING GEAR. Check oil level every 40 operating hours. Keep reservoir filled with SAE 90 year lube.

  Our a high grade straight mineral oil.
- \*BRAKE AND INCHING MASTER CYLINDERS. Check fluid level every 40 hours. Keep filled to within 1/4" from top. Keep vent hole in filter cap open at all times.
- \*GENERATOR, Every 60 operating hours, add 8 to 10 drops \$AE 10W engine oil to the respective oil cups.
- \*STARTER, Place 8 to 10 drops SAE 10W oil in oil cupevery 300 operating hours.
- \*ENGINE Oil. The crankcase capacity is 6 U.S. quarts: the filter holds an additional quart. Check twice daily, drain and refils every 200 operating hours and change filter every 400 operating hours under normal service.
- \*DISTRIBUTOR, Each 300 operating hours place 3 or 4 drops SAE 10W oil on wick under totor. Remove plug at aide of housing and fill with SAE 20 oil each 300 operating hours. Apply a trace of high quality ball bearing lubricant to the breaker carn every 300 operating hours.

\*HYDRAUGE OIL TANK. Check daily and maintain level at "Full" mark on dipatick, with mast fully taised. Use ATF Type A Suffix A AOATF 696A (Texaco) oil. Drain, clean, and refull every 2000 hours.

(-

- \*RADIATOR. Check daily. Refull as regulted. Add permanent type anti-freeze when air temperature is 32° F. or lower.
- \*FUEL PUMP. Clean bow! and screen.
- \*TRANSMISSION. ATF Type A Suffix A AQATE 696A (Texaco) cil. Change oil and filter every 500 operating hours. Drain transmission, change filter, and clean suction prainer in transmission case after first 40 hours. Check oil level daily.
- \*DIFFERENTIAL. The lubricant used in the differential is common to the transmission; therefore, checking and changing are the same.

TORQUE CONVERTER. The lubricant used in the converger is common to the transmission and differential. Drain at the time of the transmission oil change. Retate converter until drain plug is visible in hole in bottom of housing. Converger will recharge itself with engine numing. Recheck transmission oil level after charging converter.

BREATIERS. Check and clean the breathers for the crankrase, hydrantic system, and the differential each 60 operating hours. Clean the breather copt in solvent, dip in clean engine oil, then shake out the excess oil.

#### Fig. 1-30. Lubrication Chart (Sheet 2 of 2).

for cover and inspect the brushes for wear. Do not grasp the brush teads and push the brushes our of the holders against the spring tension. Do not shap the brush arm down against the brushes. Clean a dirty commutator using a strip of number 00 sandpaper or a brush seating stone, held against the commutator with a piece of flat haddword while the engine is tong. Blow out all dust and grit with compressed air. Do not use emery cloth to clean the commutator. Replace worn brushes with new brushes, being supe to righten brush seads and screws, field leads, and ast connections. Brush holder springs have sufficient tension if they hold the brushes tight against the commutator; replace springs if they do not. Prevent brushes from sticking by keeping the bulders clean.

3-31, GENERATOR AND FAX BELT. Frequently inspect the fan and genetator drive belt for proper tension; a longe or slipping best will cause engine overhearing and reduce generator charging rate and the rom of the driven pulley. Check belt tension (figure 1-11)! by pressing on the belt mid-way between the fan and crankshaft pulleys with a force of approximately 10 pounds. Proper helt deflection should be 3/4 to 1 linch. Adjust belt tension by lonsening generator mounting boits and the adjusting bar cap screw, pull outwardly on the generator until correct tension is applied, and then tighten nots and cap screw. Replace a worn of greaserscaked belt as it will not be capable of driving the fan or generator at their proper speeds.

9-12. STARTING MOTOR. Service the starting motor, brushes and commutator in accordance with the Instructions outlined for the generator assembly (paragraph 3-10 above). If the starting motor pinion falls to engage the engine fly-licel ring year, it indicates a sticking drive pinion and requires removal from the engine. Remove the negative lead wire from the battery, disconnect all

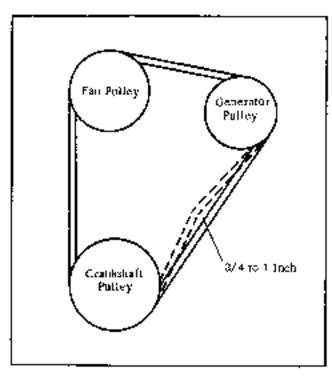


Fig. 7-11, Belt Tension

wites from the motor, comove the large lock bolt that sentires the starting motor to the engine, and withdraw the motor from the engine flywheel housing. Wash the pinion and shalt of the motor with clean keresene, dry completely, and re-locall on engine being suce that the took bolt engages the upper hole in the starting motor housing. Clean the lead were terminals and make proper connections of the motor leads and the negative lead of the hattery. If starting motor still fails to operate, install a new assembly in its place, tag the faulty motor for overhaps.

3-13 SPARK MJ/GS, Whenever engine performance is unsprisfactory, fuel consumption is expossively high, or idling is rough, it is an indication that the most logical composition to check first is the spark plugs. Using a 7/8. trich deep socker wrench, loosen the plags two full tams, blow all diff away from the ports, and then remove the pleas. Clean the plugs with a sand blast cleaner if available, clean plug threads with a wire bristle brash, and restore damaged throads in the head ports with a scitable size ¢ap. Clean the sparking surfaces to a bright smoothness with a fine point file. Reset the plug gap to 0, 023 to 0, 058 inch for gasoline engines, 0, 014 to 0, 026 Inch for LP-Gas engines. Set gap by bending the ground. or outside electrode, and test with a who type feeler gage. Using new copper gaskets, justall the new or aleaned plugs, and tighten them to 34 foot-bounds torque. If no torque wrench is available, install furget tight, and then tighten an additional 8/4 turn with the deep speket wrench.

9-14. DISTRIBUTOR. Remove the distributor (2, figure 1+17) cap wipe it clean with a cloth, and inspect it closely for gracks (usually very thin). Inspect the cap and

rotor for chips, eracks, or carbonized paths which allow high recision leaks to ground. Enspect and discard a capscal of it is glazed or matted with oil. Chock the centrifugal advance mechanism for embinding movement. by turning the distributor shaft in its direction of rotation. and then release it. The advance springs should return the shall to its original position without sticking. Clean the distributor points with a line mit contact file; do not attempt to remove all rangimoss, but merely estnove. seafe and dut from the contacting surfaces. Do not use emery clock or sandpaper as their abrasive particles will imbed in the surfaces and cause the points to birg. Adjust the point gap to 0, 016 Inch by turning the engine. over until the earn follower block for the breaker level Is on the high point of the cam lobe. Loosed the lockscrew, such the eccentric screw to obtain the shope Stated gap, and then righter the look scrow. Apply a light film of half beating lubricant to the breaker cam; place two drops of light engine oil on the felt in the distributor shaft. Discard all parts that are worn, humed, pisted, or see in an otherwise unserviceable condition. No further distributor socytoting is togulied for field maintenance, however, if tilling lights are available Lighttion stirming run be checked at this time by following the procedure outlined in paragraph 3-32. Secure distelbuter cap in its original incation on the distributor. and install cap spark plug wires.

3-15. Off 20MF. With the origine naming at full governed speed and normal operating rempetature, the dash panel empires of the pressure gage should register between 25 to 35 paniels. Erratic action, filekcring, or a sudden lowering in the pressure is not also. ways an indication of all pump malfunction; check the prankcase of level, sest for a faulty gage by disconnecting the oil gage take at the engine connection. and furnishe engine over with the starting motor. If a steady suicam of OD comes out of the fitting in the complete, the gage is faulty and not the pump. The no oil comes out of the litting, or the stream is beckers and weak, it indicates a plugged oil intake passage or a plugged floor screen. Clean the oil passage. Remove the cover from the lower right side of the engine After draining the crankcase oil, contove the cotter pin (1, figure 1-12) that secures the float to the connector tube, and withdraw the floar and screen assembly, Thoroughly clean the screen using clean kerosene, drycompletely, inspect for damage, and remisself it is: Its original position. Unicrew the oil filter located at the toar right side of the engine and diseard it. Install new filter. An oil pressure regulator (figure 1-13) is instabled on the left side of the oil pump housing. To adjust the ail pressure on the pressure gage, loosest the took mit of the regulator and retate the setscrew clockwise. 10 increase pressure, and counterclockwise to decrease. cil pressure. When the gage indicates law all pressure and no further adjustment of the regulator setscrew is possible, is indicates that the oil pieme gears have too. much end elegrance of are worn beyond serviceable. Hmlis, or that the regulator spring has collapsed or is broken. Brain the crankcase oil, temove the attaching parts that scoure the pump to the granlmase, and withdraw the pump assembly. Inspect the gears and spring; remove and replace as necessary. Do not terrove the oil pamp drive shaft as that would also require removal of the entire distributor assembly which in turn involves re-niming of the engine. This should only be done in the shop. Install and check for drive gear and clustance as outlined in the oil pump overhapl procedures of Chapter 4.

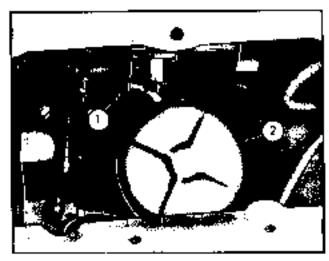
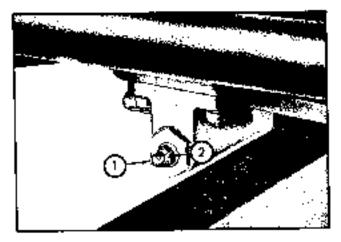


Fig. 1-12. Oil Float and Screen

- 1. Contet pln
- 2. Float



25g, 1-13, Oil Pressure Regulator

- ), Adjusting screw
- 2. Աո**ւ** է դամ

8-16. GOVERNOR. Inspect the governor and carbutetor linkages (figure 1-14) for signs of rough edges, paint, or binding. Adjust linkage for proper governed speeds of 1760 ppm as follows: Start engine and allow it to teach normal operating temperature. Stop engine and disconnect the spring and plunger assembly from the fock shaft, disconnect the earburgtor control rod, then push the red back until the sever for the throttle disc shaft is all the way bank against its stop on the catburetor. Push the levet for the governor fork shaft all the way bank also, and then adjust the shaft pin on the earburetor content rod. until the pin is 1/16-inch past the upper hole in the govornor arm. Insert the pin in the fork shaft and secure it. with washers and a petter pip. Look pip in position with the look not. Move the hand throttle control to the idle position and connect the adjusting rod spring to the Innerhold in the governor fork shaft, making cortain that the adjusting and plunger is in proper alignment with the lever for the fork thaft. If the plunger is not in alignment, reposition the adjusting rud guide so that the plunger is contared on the levet. Thread the plunger in or out until it contacts the edge of the furk shaft, insuring a positive tele position, and then secure with the look but. To check the governed speed, move the throttle linkage to the wide open position, and adjust the Jam nuts in the direction accessary to obtain the desired governed speed. Tighten the outs against each other after obtaining setting.

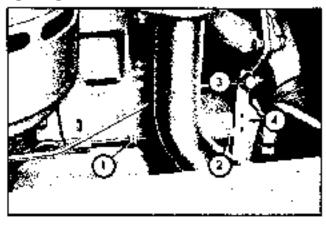


Fig. 1-14. Gevernor Linkzge

- 1. Jam unds
- Plumget
- 3. Pivet pin
- Governor arm
- 3-17. GASOLINE CARRIBETOR, (See figure 1-19), Inspect the linkages for signs of rough edges, paint, or binding. Check all connections for evidence of leaking. If the engine fails to start or does not operate properly, make the following carbinetor adjustments.
- a, Screw in the idle adjusting needle (3, figure 1-15) on -713 in just seats; then open the needle 2 full turns.
- b. Make demain the title speed step series (0, figure 1-15). Is holding the throttle disc slightly open.
- n. Start the engine and allow it to warm up at an idle speed of approximately 800 rpm.
- d. After the engine has warmed up to normal operating temperature (approximately 180 degrees), release the secolerator podal and aflow the engine to idle.
- Adjust the idle speed step screw to obtain an engine idle speed of 450 to 500 com.

f. Then out the (die adjusting needle until the engine speed drops from an over-lean gas mixture. Then, turn the needle in until the engine runs smoothly and steadily.

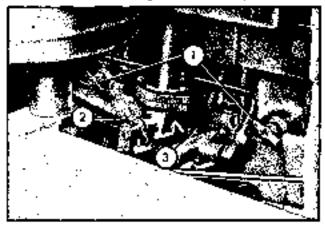


Fig. 1-15. Carbureton

- 1. Block åreins
- 9. Idle speed stop screw
- Idle adjusting needle

#### 3-19. LPHGAS SYSTEM.

- 8. Power adjustment. Set the pointer (not the slot) on the power adjustment screw between 2 and 3. Warm the engine up to normal operating temperature. That adjusting screw clockwise to enrich mixture, counterclockwise for fearer mixture.
- b. Idle adjustment. Set the idle speed stop screw to obtain an Idle speed of 450 to 500 rpm. Set the idle screw for the smoothest idle (approximately three full runs out).

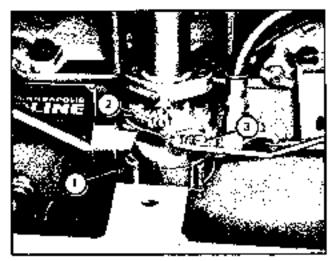


Fig. 1-16. LP-Gas Carburetot

- 1. Power adjustment
- Idle speed stop serow
- 3. Idle adjusting screw

- c. FILTER. The filter element needs very little service. Generally speaking, it should be cleaned or changed only if a loss of power is noted which can be traced to no other cause. The element is located in the relief valve assentably. See figure 1-9.
- 2. LP tank. It is renommended that the tank be removed when the track is our of service, such as over-night. Score the tank in a safety tack.

#### 3-19. COOLING SYSTEM.

- 8-20. The coulding system plays an important role in the life and efficiency of an internal combustion engine. Overheating not only names the engine to knock and lose power, but also results in damage to bearings and other moving parts of the engine.
- 3-21. Overcooling, although less sudden in effect than overheating, may be equally dangerous to the engine. Low engine temperatures cause the formation of sludge which interferes with proper lubtication. It also creates harmful acids which attack engine parts.

#### WARNING

Be careful when removing radiator cap when engine is hot. Turn cap slowly until it reaches went position then allow steam pressure to escape before removing.

- 3.722. A pressure-type cooling system raises the bolling point of the coolant and permits the engine to operate at higher temperatures without coolant loss. A pressure-type system will not function properly unless it is absolutely airtight, consequently, the system must be kept in good condition. Air in the system will also force coolant out of the overflow pipe, reduce the rate of hear transfer, and accelerate rusting within the system.
- 3-23. The cooling system has 3 drains—the radiator drain, located at the lower side of the bottom tank; and a drain for each cogine block (1, figure 1-15). When ever the system is drained, it should be done at the end of a day's run when any foreign material is in suspension and will be temoved with the coolant. To insure complete draining, open all drains and remove the radiator cap.
- 3-24. The type of coolant used in the tadiator (1, figure 2-14) depends on climatic conditions. If there is no danger of freezing, use a solution of clean, soft water and rust inhibitor; however, if the truck will be exposed to freezing temperatures, use a permanent type anti-freeze.
- 9-25. Avoid the use of water having a high mineral content of containing other impurities. Water containing minerals or other foreign material will form deposits throughout the cooling system. These deposits, in addition to restricting the proper flow of coolant, act as an insulator to prevent the effective

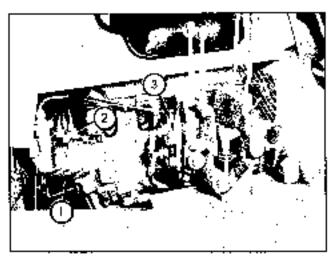


Fig. 1-17, Right 51de View

- 1. Generator
- 2. Distributer
- Auxiliary control valve.

transfer of heat. Clean rain water and a rust inhibitor. Is a good contant solution.

3-26. If the danger of freezing oxists, fill the cooling system with a permanent type anti-freeze solution. Follow the recommendation of the anti-freeze manu-(actured to obtain a solution that will) give the desired protection for the lowest anticipated temporatures. After filling the radiator, run the engine with it reaches normal onetating temperature and the thermestar opens. This will establish abculation formigh the radiator and engine blocks to insure proper mixing of the anti-freeze and water. If the solution is not thoroughly mixed, slush ice may form. Shish included stop eleculation, causing overheating and subsequent loss of quotant. Aporther reason for running the engine is to release any air trapped in the engine water jacket by the closed thermostat, When the thermostat opens, the trapped air is released and the water passages fill with coctant. Eliminating trapped air lowers the coptant lovel of the radiator, And more water must be added to fill it to the proper level,

3-27. As mentioned proviously, tost labilitios should always be used to a radiator to protect it against corrosion. Most high-quality and freeze solutions are compareded with a rust inhibitor or corresion determent. Do not add a sust Inhibitor to these solutions as the chemical reaction may damage the system. Maintain full strength corresion protection to the contant system. or all times. Conosion inhibitors tend to lose their effectiveness with use, and we recommend draining the system and cenewing the aphibitor every 6 months. In a system that was clean originally, the appearance of rest in the radiator, or in the solution, is an indication that the inhibitor is weakened or exhausted courpletely. Whenever the cooling system shows signs of rust, the quotast should be drained, the system flushed, and the radiator tofilled with fresh coolant containing an រដាង(bl)cot.

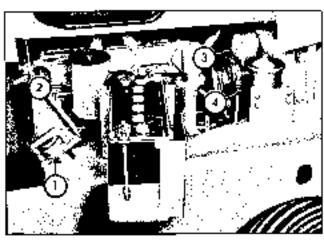


Fig. 1-18. Left Side View

- 1. Fuel tank filler dag
- 2. Air cleaner
- J. FAD
- 4. Porque nonverter filter

3.28. After the anti-freeze solution is drained in the spring, at is recommended that the cooling system he flushed thoroughly, cleaned if necessary, and a subtable rust inhibitor added to a summer filling of freshwater. In areas where anti-freeze is not sequired, add rust inhibitor to a tresh filling of water both spring and fall.

#### NOTE

Flush the system thoroughly before and after the use of anti-freeze solutions.

8-09. Efficient operation of the crolling system requires an organizational cleaning operation large at seasonal changes when anti-freeze solution is added to drained. The proper method of cleaning depends on the condition of the system. The exterior of the radiator should also

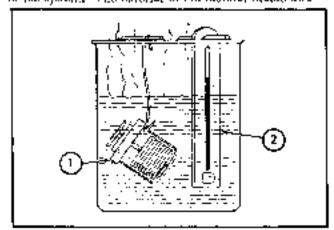


Fig. 1-19. Checking Thermostat

- Thermoster
- Thermometer

be cleaned regularly. Dirt, insects, or other foreign majerial will glog the radiator fins and reduce coming effectionly. Clean the fins with forced air or water. Straighten any hope fins noticed during the cleaping operation, but be careful not to injure the tubes or broak the pand browers fins and tubes.

3:30. To check the thermostat, first clean it, and then suspend it in a container of clean water along with a thermostater. Heat the water and check the opening and closing temperatures. If the valve fails to open at 10° or more above the rated opening temperature (180°), or fails to close at 10° to 15° below this temperature, the thermostat should be replaced.

S-31. TIRES. Fires are an integral and expensive part of the lift track. It is important that they be kept in the best possible condition as follows:

 a. Tires should always be kept inflated to the recommended pressure.

 The III truck should never be driven at high speed over rocky or rough ground.

 When the lift cruck is not in use, it should be kept out of the sun as much as possible. Sunlight causes surface checking of the tires.

d. The lift trunk should not be parked to billy or greasy floors. Oil and grease deteriorate rubber and shorten tire life.

Tipe damage should be reparted immediately.
 Small breaks or ours allow dirt and moisture to enter and cause fabric rot.

f. If the lift truck is to be out of service for any length of time, it should be blocked up to take the weight off the tires. If this is not possible, check the tires tegolarly and keep them inflated to the recommended pressure.

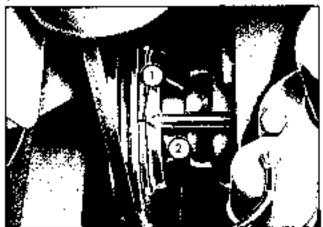


Fig. 1-29. Englac Timing

Timing mark

Tiening pointer

3-32. ENGINE TEMING. (See ligure 1-20), "In check the thining, connect a 12-yeak timing light to the spack plug for the number 1 cylinder (the one closest to the radiator and of the engine). Set the accelerator to 20-tain an engine speed of 1750 tpm. Atlew the engine to warm up to sormal operating temperature. Direct the timing light at the timing pointer (2. figure 1-20) and the cranishaft sheave. As the light flashes, the liming mark (1. figure 1-20) on the sheave should line up with the pointer. If the mark dues not line up with the pointer, leosed the distributor look nuts, and rotate the distributor body to accreet the timing. Tighten the look nuts.

3.30. STORING THE LIFT TRUTCK.

S-34. If the lift truck is to be stored for an extended period of time, the following steps should be taken to provent unnecessary detectoration and to insure top performance when the lift truck is required to service.

a. Drain the grankcase, filter, and transmission. Flish the units with kerosene or diesel first, install new filters, and refill the units with the specified grade of fresh oil.

b. Thoroughly tebriests the life truck, and service the air cleaner and breathers according to the instructions given in this manual. Drive the lift truck for a short distance to distribute the fresh Jubicants.

 Orain and flush the cooling system. Leave the tadsator and bluck drains open to prevent the collection of condensation.

d. Drain the gasoline tank, filter, and earbureter. Make certain the system is completely drained as any fuel remaining in the system will reddied and form gunutry deposits. Leave the shut-off valve and the carbureter drain open. Clean the fuel filter. If the truck has an LP-Gas system, close the fuel valve, remove the tank, and store it in a safety tack.

e. Resolve the valve covers and flush the valves, racket arms, and push rods with heavy oil (SAE 30) to prevent rust.

f. Remove the spatk plugs and pour a liberal amount of engine oil into each cylinder. Turn the engine over several times to distribute a protective oil film on the pistons and cylinder walls.

g. Remove the battery and store it in a coul, dry plane, where it will not freeze. Knop the battery fully charged, and maintain the proper electrolyte level. A remotion battery will deteriorate rapidly when stored. If the terminals and the top of the battery appear corroded, clean them with a stiff brush and a solution of haking soda and water. Make certain the year holes in the filler caps are open.

h. Drain and flush the hydraclic system. Remove the strainer (44), figure 2-30) from the hydraulic tank and clean. Replace the screen and fift the tank to the specified level in accordance with the lubrication chart

- (figure 1-10). Operate the hydraulic controls for several minutes to distribute the new fluid changlions the system, Contract the cylinders during storage.
- i. Thoroughly clean the 50th tauck. Check for word or damaged parts, and make any necessary repairs, seplaced months or adjustments. Touch up any areas where the paint has word or rubbed oil.
- Block up the lift togek to take the weight off the tites,
  If the weight is left on the tites, they may take a "set"
  and become permanently damaged,
- k. Store the lift trock in a dry building, however, if it cannot be stored inside, cover it with a tatpaulin.
- 3-35. TROUBLE SHOOTING.
- 3-36. Trouble showing involves taking the gruper steps to locate the source of a trouble, and then coarecting the trouble. Do not confuse trouble shooting with an engine time up. In an engine time up, all parts of the system where the trouble is occurring are checked. For example, in an ignition tone up, the battery, which is the source of electrical energy, is tested first; then the hattery cable connections are inspected, etc. This checking and testing is continued in successive steps until each portion of the system that can have an influence on other positions is thoroughly tested and any abnormalities contected.
- 8-87. In trouble shorting, the serviceman wishes to lear that the part responsible for the trouble by emickly climinaring all other parts. For example, suppose the engine misses (misses) under a heavy load. In about 85 per cont of the engines with this trouble, it will be found that the

- ignition system is at fault. Of course, faulty valve serion or an inadequate fuel supply can also cause an engine to miss. However, if the engine had a faulty valve action, the inlisting would usually be evident at all times fortunal of eccurring only when the engine is under heavy load. An inadequate fuel supply can also be dismissed if the engine does not show a tack of power under a steady noll with an average load.
- 3-35. The first step in trouble shooting the Ignition system is to check the spark output from the ands of the spark plug wires. Check each wire by holding it 1/16-inch away from the engine block while cranking the engine wish the ignition switch turned on. If each wire shows a good spark, it indicates that the ignition system from the ends of the spark plug wires hack to the harrery is satisfactory. Thus, nothing would be gained by checking the distributor, battery, battery cables, typicion swirch, etc. By this one rost, it has been established that the ignition system is delivering a satisfactory spark to each spark plug. Since the rest of the ignition system has been climinated, it is logical to assume that faulty spack plugs are responsible for the trouble.
- 3-30. Trouble shooting can be applied to any part of the lift truck that is not functioning properly and follows the same pattern:
- First confirm the suspected condition before proceeds ing with any tests.
- b. Next determine and recognize the possible causes,
- Finally isolate the cause (or raises) by performing a series of quick tests to eliminate the others.

#### TROUBLES, CAUSE, AND REMEDY

тиковые	POSSERIE CAUSE	SUGGESTED REMEDY
ENGINE IS HARD TO START OR FAILS TO STARE	No fuel in carburctor.	Make sure feel shot-off valve is open, Check feel lines and filter.
	Water in fort.	Open narbureter drain to check for water. Drain system and refull with fresh fuel if there is avidence of water.
	Water in cyllnders.	Check head garket.
	Weak spark.	Check ágnition system.
	No strank,	Check wiring and connections.
	Incorrect ignition timing.	Check ignation strring.
	Incorrect valve adjustment.	Check valve clearances.
	Roweleted air antake.	Coan and service air cleaner.
	Restricted exhaust,	Clear soot and foreign material from ex- haust passages.
	Poer compression.	Check valves, rings, etc.

# PARKET (CONT).

# TROUGHES, CAUSE, AND REMEDY

TROUBLE	POSSTILLE CATISE	SUGGESTED REMEDY
ENGINE STARTS, BUT FAILS TO KEEP BUNNING	Insufficient fuel supply.	Check fuel supply as carbureror. Make sure fuel sint solf valve is open. Check fuel thes and filter.
,	Faulty wiring or connections.	Cheek wirting and trybten connections.
	Clogged air chatnels in fuel cap.	Check by removing eap. 15 this corrects simulation, clean old cap or install new one.
ENGINE HUNS UNEVENLY AND BACKFIRES	Lean fijel mixture.	Adjust nachuretor.
SAD ENCEPTIES	Shorted Sgnittion wires or dis- tributor.	Check wiiting and distributor.
	Snigking distributor advance thechanism.	Check distributor advance and clean if stocking.
	Incorrect ignition firming.	Check ignition lunding.
	Incorrect valve adjustment.	Check vatvo otrazances.
	Blown cylinder nead gasker.	Reptace gasket.
	Faar comptissian.	Check valves, rings, etc.
ENGINE BACKAINES, BUT WILL NOT START	Mousture on ignition parts.	Wine all dirt and moisture from emil, spark plugs, spark plug leads, and from interpor of distributor cap.
	Alighetension wires shorted.	Check wining.
	Spark plug leads connected to wrong plug positions or distributor cap terminals.	Check spark plug lead consections.
	Sticking distributor advance medianism.	Check distributor advance and clean if sticking.
	Incorrect againson tinking,	Check ignition landing.
ENGINE MISFIRES AT RIGH. SPEED	Spark plug gap reo wide.	Check plug gap.
37223	Weak spring on distributor breaker points	Alter spring tension or install new points.
	Poor ground connection on condenser.	Täglsten döndensor ground sorew.
	Coll breaks down when hot.	Check cod at operating temperature.
	Sticking valves,	Check valves.
	Incorrect valve spring ten Sixo.	Check spring tension.
ENGINE MISTIRES UNDER	Faulty Lymition.	Check ignition system,
LOAD	Canlty spark plugs,	Check plays, clean and gaps
	Paulty carameter.	Clean carburetor and check float level.

# TABLE I (CONT)

# TROUBLES, GAUSE, AND REMEDY

Ü

TRODISLE	POSSIBLE CAUSE	SUGGESTED REMEDY
ENGINE MISHIRES UNDER LOAD (CONT)	Engine overheating or pre- ignition.	Oheck cooling system, ignition timing, and spack plugs. Remove carbon deposits for combission chambers.
	Incoment valve adjustment or faulty valves.	Check valves.
	Poor compression.	Check valves, rings, etc.
	Faulty valve action.	Check valves.
	Faulty spack plugs.	Clean and gap, or replace plugs.
	Low coil Output.	Test for satisfactory spack at end of each spark plug lead.
	Incorrect ignition timing.	Check agnirion timing.
	Sticking distributor advance mechanism.	Check distributor advance and clean if sticking.
HIGH FUEL CONSUMPTION	Loak in fact system.	Check fuel times and connections.
	Incorrect oprioretor adjust- ments.	Crean and adjust carburetor. Check for proper float level.
	Restricted air intake.	Check for high oil level 'n air cleaner cup. Clean and service air cleaner.
	Improper oil viseratey.	Drain crankcase and fill with oil of recom- mended viscodity.
	Dragging brakes.	Adjust free pedal travel.
	Faulty spark plugs,	Clean and gap, or replace plugs.
	Sticking distributor advance mechanism.	Check distributor advance and clean if stroking.
	Incorrect ignition timing.	Check ignition turning.
	Engine not operating at cor- rect temperature	Check cooling system.
	Incorrect valve adjustment or sticking valves,	Check valve action.
	Wom valves, guides, tings, cylinders, etc.	Overhau) engine.
	Englie lugging.	Shift to low range.
	Excessive engine speed.	Admist governor.
ENGINE LACKS POWER	Carbureror thrombe dusc duca not open fully.	Check throttle linkage and throttle shaft.

# TABLE 1 (CONT)

# TROUBLES, CAUSE, AND REMEDY

TROUBLE	POSSIBLE CAUSE	SUGGESTED REMEDY
ENGINE LACKS POWER (CONT)	Restrected exitaust.	Cican soot and foreign material from ex- haust passages,
	Dragging brakes.	Adjust brakes,
	Improper oil viscosity.	Drain crankcase and fill with oil of recom- mended viscosity.
	Faulty governor action,	Check linkage. Adjust governor to obtain recommended opm.
	Tucocrect carbonetor adjust- ments.	Clean and adjust carburetor. Check for proper float level.
	Poor-quality fuel.	Drain fool system and teffil with fresh fuel
	Rommoted air intake.	Check for high oil level in air cleaner cup Clean and service air cleanor.
ENGINE OVERHEATS	Low coolant level.	Add coplant and check for leaks.
	Clagged cooling system.	Clean and flush system.
	Chagged radiator fins,	Clean with forced air or water,
	Faulty thermostat,	Replace thermostat.
	Faulty water pump.	Repair or replace pump.
	Supping (an belt.	Tighten or teplace belt.
	Fuel maixture too lean.	Clean and adjust carbutetot. Taghten all connections.
	Sticking distributor advance mechanism.	Check distributor advance and clean if striking.
	Incorrect ignition timing.	Check ignition timing,
	Pre rignition.	Check ignition timing and spatk plugs. Re move carbon deposits in combustion chambers.
HECH OIL CONSUMPTION	Improper oil vacosity.	Drain crankcase and filt with oil of tecom: mended viscosity.
	Oil pressure too high.	Adjust oil pressure regulator screw to ob- tain recommended pressure.
	Oli leaks.	Check seals, gaskets, connections, etc.
	Clogged crankcase breather.	Clean breather element.
	Engine overhe≱ding.	Check timing and conting system.
	Worr, or scored pistons, pins, rings, bearings, valve guides, etc.	Overhant engine.

### TABLE 1 (CONT)

### TROMBLES, CAUSE, AND REMEDY

TROUBLE	POSSIBLE CAUSE	SUGGESTED REMEDY
HIGH OR LOW OIL PRES- SURE	Plegged or leaking oil lines.	Clean, tighten, or replace lines.
	Dirty intake sciedn on off pump.	Clean screen,
	Warn ail pump,	Repair or replace pump.
	Wom beatings.	Reptace hearings.
	Emproper of Viscosity or crankcase delimion,	Drain grankesse and fill with oil of recom- mended viscosity.
	Incorrect setting of oil pres- title legitlator sciew.	Adjust regulator screw to obtails recom- mended pressure.
	Faulty oll pressure gage.	Check accuracy of gage by disconnecting oil time just above filter housing and collisecting test gage.
SUPPAGE IN DRIVE SYSTEM	Faulty clutch.	Repair or replace eloteh.
STSTEM	Faulty pump.	Replace faulty component.
	low oil tevel.	Fill to correct level.
	Defective tolque converter.	Replace convertor.
LIFT TRUCK OPERATES IN ONE DIRECTION BUT NOT IN THE OTHER	Defective church.	Repair or replace clutch,
DRIVE SYSTEM NOISY	Low of level.	Fill to proper level.
	Worn or broken gear or shaft.	Seplace faulty component.
SYSTEM WILL NOT LIFT, LIFTS TOO SLOWLY, OR	Leaks in system.	Trighten Lorse connections. Replace damaged component.
STICKS WHEN LOWERING	Defective control valve.	Replace valve.
	Defentive hydraulic pump.	Repair or seplace purop.
	Defective lift cylinder.	Repair or teplace cylinder.
	Dirty planger assembly,	Cloan exposed surface of plunger.
	Low hydranisc pressure.	See "LOW HYDRAULIC PARSSURF" below.
LOW HYDRAULIC PRESSURE	Defective pump.	Repair or replace pomp.
	Leaks in system.	Tighten loose connections. Replace faulty components.
	Defective valve.	Replace valve.

# TABLE ( (CONT)

### TROUBLES, CAUSE, AND REMEDY

T ACCURACE	POSSIBLE CAUSE	SUGGESTED REMEDY
EXCESSIVE HYDRAULIC PRESSURE	Defective valve.	Replace valve.
SYSTEM LIFTS, BUT WILL NOT LOWER LOAD	Defective valve,	Replace valve.
EXCESSIVE NOISE ON HAMMERING.	Defective pump.	Корије от горјасо рштр.
	Air in system.	Purge system,
SERVICE BRAKES NOT REFECTIVE	Worn brake lining.	Adjust brakes or replace linings.
	Insufficient brake fluid.	Add fluid as specified in lubricacion char
	Broken or loose time.	Tighten connection or replace defective.
	Panhy broke cylloder.	Repair or replace cylinder.
SPONGY BRAKE ACTION	Air in system.	Bleed system.
BRAKES DO NOT RELEASE	Incorrect brake adjustment,	Adjust brakes.
BRAKES GRAD	Diπ in brake drum.	Clean and adjust brokes.
	Defective lining,	Replace linings.
	Scored brake drum.	Turn down or replace drum.
	arake fluid on lining.	Replace linnegs.

#### CHAPTER 4

#### OVERHAUL (SHOP MAINTENANCE)

#### Section 1. General

- 4-1, GENERAL,
- 4-2. This chapter consists of instructions relating to the removal, disassembly, repair, and reassembly of the components involved in the lift truck.
- 4-3. No special roots are required to everbauf the equipment. Tools and testing devices required are those commonly employed at a shop having overhauf familiaties. Assuming that only skilled automotive mechanics will perform the procedures described in this manual, obvious and elementary instructions have been purposely omitted.
- 4.4. An attempt has been made, wherever possible, to treat the assemblies in their logical order of accessability sequence. For complete disassembly, tefer to the Table of Contents, locate the assembly desired and note its page number. Repeat for each assembly.
- 4.5. Unless inherwise indicated, all boilt should be totqued to the following values:

1/4 lineh ...... 8 to 10 foot pounds
5/16 inch ..... 15 to 18 foot pounds
3/8 inch ..... 90 to 35 fore pounds
7/16 inch ..... 50 to 55 foot pounds
1/2 tach ..... 75 to 85 foot pounds
9/16 inch ..... 115 to 125 foot pounds
5/8 inch ..... 156 to 170 foot pounds
3/4 inch ..... 270 to 200 foot pounds

Secreton II. Removal, Disassembly, Repair, and Reassembly

- 4-6. EQUIPMENT OVERHAUL,
- 4.7. BATTERY, CLAMP, AND CABLES.
- 4.8. REMOVAL. (See figure 2-16). Removal and disassembly is accomplished at the same time as follows:
- Prop left side of hood open with support rod.
- Lift hattery and hox and swing assembly out. Remove cables and hold down assembly. Remove battery from box.
- c. Remove pivot pin (24, figure 2-16) and remove box,
- 4-9 DISASSEMELY. Disassembly is completed with removal of parts.
- 4-10. REPAIR.
- a. Clean battery and other parts with stiff brish and haking soda and water solution. When foarming stops, flush battery with clean water. Use care not to get solution into year holes.
- b. Inspect battery and test, Inspect battery cables, and other parts. Replace battery if damaged or test indicares poor condition. Replace all parts severely damaged or corroded beyond repair. Replace hadly deteriorated cables.
- 4-11. REASSEMBLY. (see Figure 2-18.) Reassembly is accomplished in the reverse order of disassembly.
- 4-12. GASOLINE FUEL TANS, LINES, AND FITTINGS. (see figure 2-21.) The tank is an integral part of the lift truck frame and cannot be retrieved.

- 4-13. DISASSEMBLY. (see figure 2-11). Disassembly 5: completed by removing the shot-off valve (1), filler assembly (4), fuel gage sending unit (14), and drain plog.
- 4-14, REFAIR.
- a. Clean parts and flush rank with solvent.
- b. Inspect parts and tank,
- Discard defective or damaged parts and seplace with new parts,
- 4-15, REASSEMBLY, Reassemble in reverse order of disastembly.
- 4-18, SEAT.
- 4-17. REMOVAL. (See figure 2-29.) Remove sear from frame. Remove frame from bood.
- 4-18. DISASSEMBLY. Unscrew sheet metal screws holding back rest to frame.
- 4-19. REPAIR.
- a. Discard beat frame, wern cushion and back rest.
- 4-20. REASSEMBLY. (see figure 2-20.) Reassemble in the reverse order of disassembly.
- 4-22. HORN BUTTON.
- $\alpha$ =22. REMOVAL. (see figure 2-26.) Semoval and disassembly are accomplished at the same time as follows:

- a. Disconnect hattery ground wire. Disconnect hombutton wire at hom relay.
- b. Press and turn hom cover (36) to release button (37), contact cup (38), hom button spring (39), and contact cap (40).
- Remove screws holding base plate (44) and pull wire, plate, and parts out of specing column.
- 4-23. DINANNEMRIY. Disassembly has been accomplished with completion of removal steps.

#### 4-24. REPAIR.

- a. Clean and inspect parts. Check wire and insulating ferrule. Replace of damaged or defective. Check both button spring compression. Spring must prevent button from making contact unless pressed.
- 4-25. REASSEMBLY. (see figure 2-26.) Reassemble In reverse order of disassembly.
- 4-26. STEERING GEAR AND DRAG LINK,
- 4-27, REMOVAL (see ligner 2-26 or 8-26A+)
- a. Disconnect the accelerator pedal and linkage and remove the front section of the floot place.
- b. Drive out the roll pin through the hand lever arm (38, figure 2-20) at the lower and of the control lever shaft. Losson the hand lever clamp (37, figure 2-20) at the lower and of the shaft rule.
- Remove the horn button assembly (paragraph 4-22) and remove the steering wheel.
- Loosen the classips (39, figure 2-20). Remove the hand lever control shaft and tube.
- Remove the steering and (24, figure 2-26) from the shaft (27).
- Remove the steering goar (1) attaching holts and the streeting post clamp. Remove the entire steering gear assembly.
- g. Remove the rest end of the drag link (26) leads the hydraulic steering booster.
- 4-26. DISASSEMBLY. (see figure 2-26 of 2-264).
- Remove side cover (20), Press cross shaft (33) out of housing. Remove hashings (3) and oil stal (8).
- b. Loosen clamp (E4) and remove bolts bolding upper cover (15) to housing. Remove cam and tube assembly (S). Use care not to live any steel balls (7), when retaining ting (8) is removed.
- c. Remove all parts enclosed in jacket tube (10).

- d. Unscrew sucher plug (31) enough to remove front end of drag link from steering arm. To further disassemble drag link, unscrew plug completely. Pull remaining patts from speket on drag link.
- 4-28, REPAIR,
- a. Discard oil seals which show signs of leakage.
- b. Discard bearings which show excessive wear.
- Discard bent streeting tube or steering linkage, or other damaged components.
- 4-20, REASSEMBLY. (See figure 2-26 or 2-26A.). Reassemble in reverse order of disassembly.
- Replace all gaskets and oil scals.
- b. Glean all parts in solvent.
- c. Use just exough shirts (16) to obtain a slight deag when steering shaft is turned, before cross shaft is installed.
- d. Install cross shaft at center of its eravel, and Install steering arm centered between stops. See figure 1-21.
- e. To adjust eross shaft end play, turn adjusting screw (81) in right, then back off 1/4 turn.
- Adjust stop bolts (1, figure 1-21) to stop steering arm in each direction, before stops on steering axic make espear.

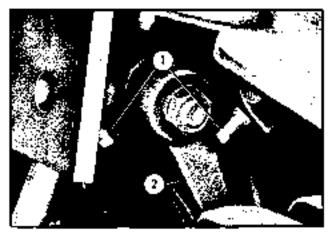


Fig. 1-21. Streeting Arm and Scops

- J. Stop bolts
- 2. Steening arm
- 4-31, HEAD AND REAR LAMPS. (OPTIONAL)
- 4-32. REMOVAL (see figure 2-16,)
- a. Discounsed battery ground wire,

- b. Disconnect lead wires to lamps and temove lamps.
- 4-33. DISASSEMBLY. (see figure 2-76.)
- Remove front head lamp modding series and molding (13). Pull sealed beam unit out of lamp head.
- Remove lons retainer (20) and remove lens (18).
- 4-34. REPAIR. Insuct and replace all defective parts,
- 4-35. REASSEMBLY. (see figure 2-16.) Reassemble in reverse order of disassembly,
- 4-08, INSTRUMENT PANEL, SWITCHES, AND GAGES.
- 4-37, REMOVAL, (see figure 0-17.)
- a. Remove the clamp holding the steering post to the instrument panel.

- 5. Disconnect bettery ground wire.
- Remove boilts holding instrument panel (1) to from shroud. Lift out panel.
- d. Disconnect wices from instruments.
- 4-38. DISASSEMBLY, (see Figure 2-17.) Disassembly is complete upon temoving switches and gages from the instrument panel.
- 4-29. REPAIR. Repair is limited to checking condition and performance of switches, gages, and components, Inspect witing for broken connections, corresion, and damaged insulation. Discard all defective parts and replace with new parts.
- 4-40. REASSEMBLY. (see figure 2-17.)
- Install gages and switches on instrument panel.

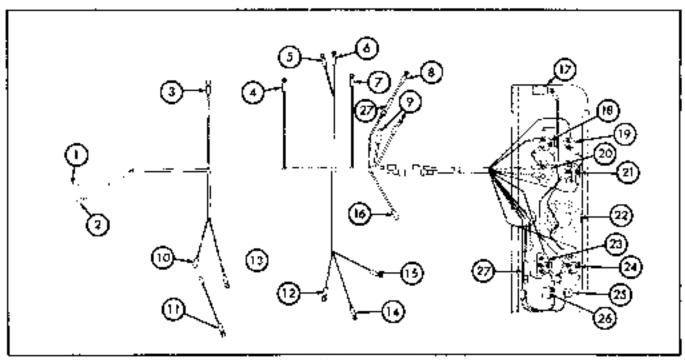
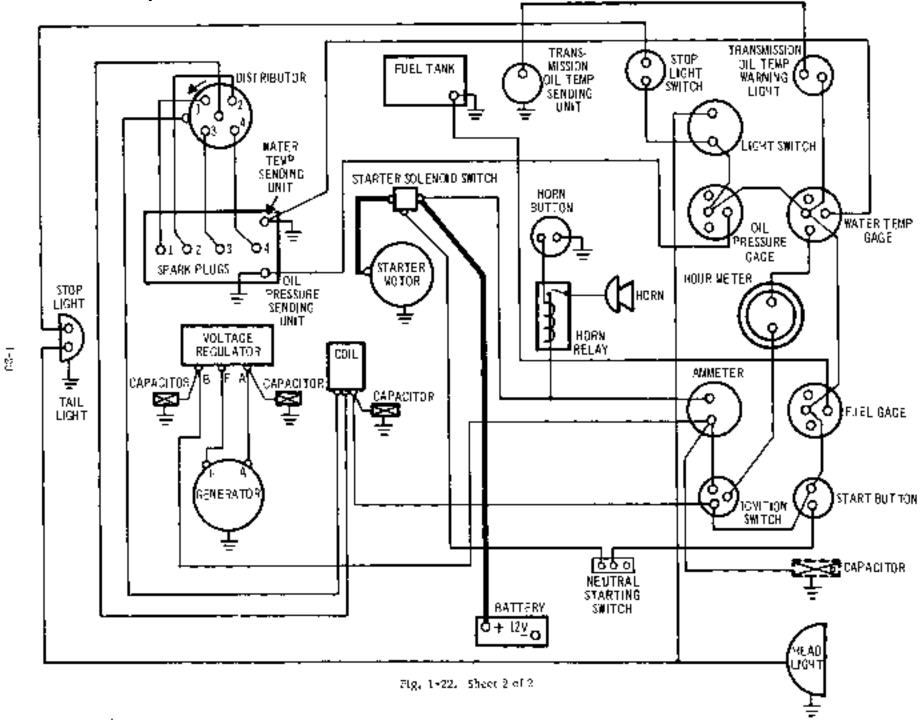


Fig. 1-22. Sheet 1 of 2

- 7. To stop light wire grange
- 2. To tail light wire black
- 3. To "B" terminal on regulator orange and black
- 4. To water temperature indicator yellow
- 5. To negative terminal on stop light switch orange
- S. To pesitive terminal on stop tight switch erange.
- 7. To warning Hight indicator natural white
- 8. To kom telay red
- To neutral starting switch
- to. To end wite purple
- 11. To coil purple
- 12. To hattery terminal on starter red
- 13. To cil pressure indicator black

- To fuel gage indicator dark green.
- 16. To starter solenold brown
- 16. To head light wire black
- Capacitor
- Id. Ignition switch
- 19. Starter switch
- 20. Amuseter
- 21. Fuel gage
- 22. Hour meter
- 23. Oil prossure gage
- 24. Tempetature gage
- 25. Warning light
- 26. Light switch
- 27. Fuse



- 4-41, RADIATOR, HOSES AND THERMOSTAT.
- 4-40. REMOVAL. (see figure 2-14.)
- Remove radiate: cap and open radiater drain valve and block drains (t, figure 1-16).
- b. Remove cooling fan (15, figure 2-12.)
- Disconnect riamps and remove upper and tower bases. Thermostat (18) is located in upper hose.
- d. Remove 4 radiates mounting bolts.
- 4-43. DISASSEMBLY, (see figure 2-14.)
- a. Remove radiator drafts Valves
- 4-44, REPAIR,
- a, Inspect radiator, thermostat, and hoses. Tost thermostat as outlined in Chapter 9. Distant defective tadiagor and hoses. Repair minor tuptutes in radiagor if secossible. Dispard radiator if damage is excessive.
- 4-45, REASSEMBLY, (see figure 2-14.)
- a. Install drain valve and attach radiated to mounting.
- Attach losses and themmestat, using proper elamps as in figure 2-14. Tighten clamps securely.
- c. Close radiator drain valve. Refill endiator as described in Chapter 3. Check connections for leaks.
- 4-46. MUFFLER.
- 4-4". № MOVAL. (see figure 2-5). Bemoval and disassembly is complete upon disconnecting all clamps.
- 4.48. REPAIR.
- a. Inspect and discard all parts that show excessive that and deterioration. Replace with new parts.
- 4-49. REASSEMBLY. (see figure 2-5). Reassemble in revene code: of disassembly.
- a. Lubricate threads on bolts, clamps, and connecting surface of mutiler and pioe.
- Align mulifler and pipe so they cannot contact other parts of life truck. Tighten nuts and bolts securely,
- 4-50, THROTTLE CONTROLS.
- 4-51. REMOVAL. (see figure 2-9.) Disassembly of Phyorthe control linkage as accomplished as follows:
- Disconnect spring (6).
- b. Remove comer pairs and tinkage.

- Remove front section of floor plate (8, figure 2-28).
- d. Remove cross shaft (2) and pedal (1),
- 4-50. DISASSEMELY. Disassorably is accomplished when theotile controls are removed.
- 4-53. REPAIR,
- a. Clean parts in solvent and inspect,
- Replace gares with excessive wear.
- 4-54. REASSEMBLY. (see figure 2-9.) Reassemble in reverse order of disassembly.
- Lubricate control tod ends and cross shaft where it moves in support and four podal hinge. Install front section of floor plate.
- b. Use new cotter pins.
- 4-85. WATER PUMP AND FAN ASSEMBLY.
- 4-36. REMOVAL, (see figure 2-12,)
- Drain cooling system. Lossen fan belt and regnove fan and water pump assembly. Remove tube from engine block.
- 4-57. DISA55EMBLY. (see Squee 2-13.)
- a. Rensove fan (15) from him (8),
- Press fan hub off shaft, remove pulley (7),
- e. Retrieve lock spring (4) and press at facility had to terrieve shaft and bearing assembly from the housing.
- d. Remove impeller (6), seal (5), and slinger ring (8) from shaft.
- 4-59. REPAIR.
- Clean parts and inspect, Discard excessively worn parts and toplace with corresponding now part. Replace "O" ting seals on tube.
- 4-80. IEASSEMBLY. (see figure 2-12.)
- a. Fress seal into housing, using suitable tool, or piece of pipe, that contacts only the seal flange. NOT the earbon ring.
- h. Allp oil slinger on shaft and insert shaft to bousing from fan hub end. Align grooves to bearing and housing and install the look wire.
- Press Impeller on shaft with .005 theh eleatance hotween impeller and housing.
- Pross pulley and familiab on shaft until end of whaft extends out of hub 21/32 inch.

- e. Theom tube with new "O" tings late engine block and install leater pump assembly.
- 1. Refitt cooling system as described in Chapter 3.
- 4.60. SEMERATOR, (See figure 2:16.)
- 4+61. REMOVAL:
- a. Disconnect battery ground wire and generator to votrage populator wires.
- Remote drive balt tension adjectment som screw at top of generator and sersove helt.
- null Remove generator from proporting brackers.
- 4-02, DISASSINGLY.
- Remove generator brush cover hand our and screw-Remove cover hand;
- our Semove the two three bolts and ionimesters.
- e. Tap off commutator and learne assembly. Tap off the drive and frame, assembly and slide armanese and of field frame. Remove ant, washer and pall off drive pulley. Someweldies and frame and components. Remove the three sections and torkwashes briding the half begring and retainer parts.
- 6. Remove the screws scientify the brush test's and remove screws holding the ground and cosmand brush parts.
- Remove the arm terminal studient, washers and shed. Remove the terminal to brosh studient, washers and stud.
- $f_{\star}$ . Remove the two screws holding the pole shoes, insignation and  $S_{\star}(0)$  entits.
- 4-60. B/05'K,
- a. Often the Sold coals with a mixth damagened with an approved miniming solvent. From to soak in solvent. Day the assembly with clean, day, compressed air, taking there not to damage including to leads.
- h. Blow all loose diet from the organism assembly with clean, dry, correpassed air. Wipe off with a cloth dampened with an appeared cleaning solvent; day thoroughly. Sand the commutator with a No. 60 flow papers. Clean our demirror the commutator bars, but so not damage of seratch the bars or the mica.
- Clear the Nush arms with a circle compense with an approved cleaning solvent, dry thoroughly.
- d. Gless the cover band, the communitator cut nover, the thrombolts, the drive end cover, and the hearing ask topics plate, and all ands, bolts, screws, and lockwashers with an approved cleaning solvent.

- ca. Clean and inspect the ball bearings.
- 1. Dispect the field colls for word or bayed insulation, broken heads, toose or composed regularis, or other demage, explane if damaged,
- g. Using a rest probe ser consisting of a lamp in series with two test points able connected to a 210-your Eighting distuit, wheels the field cools and pole pieces in the field trainer secure with two pole screws.
- h. Position the field colls, insulation and pole pieces in the field frame, secure with the two pole screws,
- Chirch for grounds by touching one rest probe to the field had and the other probe to the frame. If the lamp Higher, the field coils are grounded. Replace a grounded field assembly.
- j. Touch the peobes to the two leads of each coil. If the lamp lasts to light, the doil is open. Replace the field assumbly if any coil is open.
- k. Taspect the administer assembly to moke suite all windings are properly presend into the coil shots and are properly soldered to the communicate master. Replace the administratif windings are loose or misoldered at the communicator.
- Inspect the armature ofce for wear, replace the armature assembly if wom or source.
- in. Emperat the Commutator for Wear, roughness, and out-of-round; place the armometer V-blocks and check the concentrality of the commutator with a dial indicator. If the dominators is rough, or word, or if dependently is greater than 0,001 both, turn down,
- Inspect the bearing seats on the adminture shall, resplace the armatere assembly if soot wear is evident.
- a. Check the armagnee for grounds, open cyrestra, and shorts as follows: Check let spounds by touching one end of the probes of the test set to the shall or early and the other probe to each of the commetator tieers in turn. Do not rough probes to bresh of the commetator tieers in turn. Do not rough probes to bresh or bearing surfaces. If the large highes, the armature is grounded and most be for placed.
- y. Check for an open armstude except by stucking the proble to the above on a pair of adjacent communicator hars. If the lamp class sort light the execute is open, Repear this test on each pair of adjacent communicator hars. Replace on open armstude.
- q. Therefor a sliceted armature by placing the armature on a growler and holding a thin strip of steel above the corn. Turn the armature slowly. If the armature is shorted, the armature will set up a magnetic field, causing the steel resp to vibrate. If the armature is 4.5000d, inspect the commercent bars and cisers for copper chips of solder that may be should glactwicen bars. If the short eachot be located and cornected, inspect.

olice the armature.

- Inspect the committee and bead and drive and head for pracks, distortion, or other farmage, replace if Camages.
- Inspect the breskes for woor, oil sagnation, chips or other damage replace if damaged or worn to less then 3/8 inch.
- i. Inspect the cover bond for fit on the generator trained etacks, and other definage: toplace the band if it capper he straightened out to provide a anny fit, or if it is otherwise demograf.
- u. Tuspect all parts for wear, cracks, breaks, discortion of other damage, replace damaged parts,
- 4-64, REASSEMBLY.
- a. Install the arm terminal study washers and not in propor sequence with field cost load attached.
- b. Ensite (the terminal to brush stud. Weshers and nonin proper sequence with fleet and head attached.
- a. Install ground and hisulator brosk hackages.
- d. Phase the assembled commitment frame end on the assembled armature. Reassemble the fost washer, wester retriner, but hearing, space washer, gasket and hearing retainer plate to delvo one frame and seource with sorews and herby salters.
- e. Assemble the remountator and frame, armature, held frame and drive one frame. Secure with thruholts and washed.
- Insert brushes and attach brush leads. Check brush seating.
- g. Install, power band and secure with nur and strew.
- h. Step space cellar over shaft and insert Woodruff Sey. Install drive pulley and secure with tookwasher and not.
- [1] Installingenorister on engine and attach drive bott.
- Connect battery ground wire.
- k. Polarize generates by momentarily contracting jumper wire from "B" terminal of regulates to "A" terminal of generator.
- 4-85, STIARTING MOTOR.
- 4-66, in MOVAL. (see figure 2-16). Removel is senomelished by disconnecting battery ground wire and wires to magnetic switch. Remove lock out and set together from the best of series. (see figure figure)
- 4-6%, DOSASSEMBLY, (See Agure 2-16.) Disassembly

- is almillar to paragrapa 4 62, IGENERATORI.
- a. Remove magnetic switch, brush cover bind and thru holes with washers.
- b. Remove broad lead screws and bruskes. Tap deformation end cover and remove. Tap Julyo housing and remove. Slide armature out of field bossing from drive end.
- e. Remove scrows and lookwasters on britin ground leads. Remove british attacking scrows, holders, springs and brushes. Remove brigh jumper lead scrow, look-washer and lead. Remove reminal studium, washers and terminal sted.
- du Remove potersinoe screws, Sold coils and pele shoes.
- Remove anoter drive dowell pla and anotor drives.
- 4.08, REPAIR,
- a. Cleaning and inspection of starting motor parts is the same as cleaning and inspection of PIGHNERATION\*. Return to paragraph 4-836 through paragraph 4-836.
- b. Inspect the brushes for wear, oil seaked condition, to other damage. If the brushes are damaged or wern to less than 5/16 inch, dispard them and replace with new ones.
- c. Test the insulated brush holder bringe pitts on commutator end frame assembly for grounds by couching one probe of a test set to each of the bringe plus. Touch the other test probe to ground on the commutator end frame assembly. Replace the commutator end stame assembly if any of the pins are grounded.
- d. Reassemble brish helders and springs to reminerator and springs to commutator end frame. Place the asmotize in a pedded vise and Install the commutator end space washed and the commutator end frame assembly on the asmatize shaft. Install a grounded brighter a snape brish in the brish holder. Replace the reminionator end frame assembly if the brigh does not slide freely in the holder, or if the brish edge, are not in perfect alignment with the commutator segments.
- Cheek the brush spring tension. If the brush spring tension is not within the proper limits, replace the brush pring.
- Feel for side play of the commuteter and frame assembly on the agreeture shaft. Replace the commutator and frame assembly if side play can be felt.
- g. Inspect the fixtee drive for broken springs, strapped interes, broken lookwashers, broken pinion tooth, or other demage. Dispard motor drive and replace if meeded.
- Check center bearing place bishing fit on armature shaft. Replace bushing with new one if too loose,

- Chark inorder drive fit on articular shalt. Replace mater drive If too loose.
- 4-69. REASSEMBLY. (see figure 2-16.)
- a. Apply a light cost of oil to the armanure shaft bearing surfaces. Remove all excess oil, making sute oil does not reach commutator, brishes, field and frame assembly, or armature.
- Install the spacer washer on the end of the shaft, slide the commutator end (raine and pin assembly on the shaft, replace the center beating place.
- a. Insert the assembled motor drive and spaces washor into the drawn housing.
- d. Position the assembled drive housing over the assembled appropriate and frame assembly, secure to the commutator and frame and pan assembly with the two thru bolts and lockwashers.
- e. Check the end play in the end of the drive hotsing by mounting a dist indicator on the cracking motor with the plunger against the end of the armature shaft. Move the armature to its two extreme positions and read the total indicator reading. End play must be between 0,008 inch and 0,062 inch. If end play is excessive, install additional spacer washers.
- I. Seat the brokkes to the commutator by wrapping a strip of No. 00 sandpaper around the commutator and terming the armanuse slowly in the direction of cotation (clockwise as plewed from the drive end). Allow one brush at a time to contact the sandpaper until the surface assumes the curvature of the consumator. A lew rotations will be sufficient to seat each brokh. Blow all dust and sand from the cranking mutor with clean, dry, compressed air.
- gui Bissall the cover pand and clemp securely with the cover hand strew and not. Attach magnetic switch.
- h. Align upper hole in starting contor drive booking with look boil hole. Install look not and bolt engaging top hole in starting morest drive housing. Draw bolt up saug and tighten look not.
- Connect wires to magnetic switch.
- 4-70. Distribution.
- 4-71, REMOVAL, (see Highte 2:25.)
- a. Disconnect bettery ground wire. Disconnent high tension lead wire and low tension lead. Discountedt spark plug wires.
- b. Remove distributed cap. Note position of foror and mark distributed housing with spot of blining to call san be re-installed with rotor in some position on reassembly. Remove distributor hold down clamp screws, washed and clamps. Withdraw distributed from cranks as:

- 4-52. DISASSEMBLY. (see figure 0-15.)
- a. Life toron from shaft and termove bousing dovet. Remove screws holding condenser and breaker points, Remove nuts, washets, bashing and terminal stid. Remove screws, lendwashers, securing spring chips and breaket place.
- b. Drive out coupling to shaft pld and pull coupling from shaft. Remove space and shirm washers. Pull distributor shaft assembly and weight place from housing.
- Remove nuts and lockwashers securing weight hold down plate. Remove weight springs and hold down plate. Remove carn and weights.
- 4-73. REPAIR.
- a. Clean parts in solvent and dry carefully,
- b. Inspect all parts for excessive wear, corrosion or deterioration. Replace defective parts with new ones, particularly the politic condenser, rotor or distributor cap.
- 4-74, BEASSEMBLY, (see riggin 2-15.) Reassemble distributor in the reverse order of disassembly,
- Assemble cam and weights to distributor shalt and weight place.
- b. Slide space washer under weight place and insert shaft in distributor housing. Align breaker place with distributor housing. Install breaker place, spring clips, spring support, and locator in breaker housing. Secure with surews and lockwashers.
- c. Install terminal stud, Inside bushing, outside washer and out. Attack condenser and breaker points. Attack breaker spring to remainal stud and secure with out.
- d. Silde coupling spacer washer and shirn on to botrom end of distributor shaft. Align coupling with hote in shaft and press coupling on to shaft. Insert pin. Check end play in shaft. There should be 1000 clearance between coupling and end of housing. Use other shines if needed.
- c. Install howling rever and rotor.
- Assemble distributor to crankcase, aligning compling with marting year so refer returns to approximate spot marked on housing. Attach clamps, distributor cap and all wires in proper order.
- g. Adjust point gap to 1018 inch, with breaker lever on high point of carr lobe. Retaine agrition according to paragraph 3-32, in Chapter 3.
- 4-75. VOLTAGE REGULATOR. (See Sigure 2-16.)
- 4:76. REMOVAL, Disconnect wires and remove regulator from mounting bracket.

1-77. DESASSEMBLY.

- is. Remove abver and guider,
- 5. It is advisable to make the tension and adjustments tised in paragraph 4-73, before completely disastemble include regulator, and time remove only the facility companions.

:-56, REFAIR.

7. Mechanical checks and adjustments (air gaps, point opening) mass be read, with battery desconnected and expulsive preferably off the life track.

#### CAUCTON

The curous relay enters points must never be elesed by band with the bettery connected to the tagularor. This would cause a high current to flow through the units and would seriously damage them.

- b. Electrical settings must be checked and adjusted with the regulator mounted in the operating position and at operating temperature. But the engine for at least 15 memors, with no electrical load other than ignition, to reach operating temperature.
- The engine must be operated at governed speed, and generator voltage must be kept high energy to insere sufficient current corner, for seeiing and adjusting.
- it. After any tests or adjustments, the generator must be policized after the leads are connected, but before the engine is traved, he follows: Momentarily content a jumper between the "GEN" and "BAT" terminals of the regulator. This allows a momentary single of current through the generator, thus correctly potentialing it. Fall-tire to do this may result in severe damage due to visitantion, atoma, and huming of the relay contact points.
- Ose a speed or rittler file to clean the contact points.
   Never use timery cloth or sandpaper to clean the points.
   File very lightly to avoid exactsive loss of metal.
   Beautiful week to domaged components.
- f. Adjust air gap of voltage populator and operent regulator to . 073 inch. Press down on armatuse and adjust air gap by means of the knurfed nuts.
- g. Adjust also gap of output relay to a 020 inch. Press down on admands murit points just close, then raise or lower armature as required by leasening two screws in back of relay. Tighten screws after adjustment. Adjust relay point opening to a 020 inch by bouding upper armaning steps.
- 1. Voltage regulator setting compact 1/4 oldn fixed resistor (not less than 25 watts) at "BAT" recruired of regulator in series with hattery. Contract voltaneter from "BAT" terminal to ground. Operate origins at governed speed and operating temperature. Adjust veltage regulator closing voltage to 10,8 to 14,8 melts.

by means of adjusting screw .

- i. Current regulator setting connect armmeter from "BAT" terminal in series with battery. Place load accross battery about equal to current regulator setting (load may be a carbon pile or bank of lights). Operate regime at governed speed and normal operating temperature. Adjust current regulator setting between 18.5 and 21.5 ampens, with adjusting screw.
- j. Cutout telay setting context volumeter between "GEN" terminal and ground. Operate engine of government speed and normal operating temperature. Adjust closing veltage to 11.8 to 12.3 volts, with adjusting screw.
- 4-79. RMASSEMBLY. Repssemble in reverse order of disassembly.

4-80, WHICELS,

- 4-81. IEMOVAL. (see figure 2-28.)
- Jack up lift truck. Remove Wheel center bolts (9) and cameve drive wheel and the assembly.
- b. Remove wheel and tire assembly from steer axionab (1).
- 4-82. DISASSEMBLY. (see figure 2-25.)

#### WARNING

DEHLA TE TIKES BEFORE DISASSEMBLY OF PRONT OR REAR WHERIS.

- a. Separate inner half (5) and outer half (6) of  $\max$
- b. Semove retainer ring (198). This ring is used with single drive wheels only. Remove nots from stude (12).
   Remove clamps (11).
- Remove spaces. The spacer is used only on tracks with dual drive wheels.

4-83. REPAIR.

- Discard damaged components,
- 4-84. REASSIMBLY, (see figure 2-26.) Reassemble in reverse order of disassembly.
- a. Inflate transfer to 90 pounds inflate from these to 85 pounds.
- 4-85, STEEPING AXLE (MY 40),
- 4-80, BEMOVAL, (See figure 2-21.)
- Jack up rear of lift track. Disconnect reat section of drag link from stooring housing (11).

- b. Remove holts from from and rear pivot bearings (8), Rell axle assembly out from under life truck.
- 4-87. DISASSEMBLY. (See figure 0-01.)
- a. Remove Wheels and three as explained in paragraph
   4-91.
- Be move buarings (3) and businings (9) from shaft (19).
   Bernove Joek series, and remove shaft from axis (1).
- c. Romevo tie rod assembly (16, 17, 18, and 15).
- Remove expansion plugs. Remove lock serow from spinAles (2 and 4), and remove plus (5). Remove thrust bearings (6) and needle bearings (2).
- Remove the stotted nut and look pin (48) from pin (12). Remove bearing cups (15) and cones (14).
- 4-89. PGPAIR. (See Figure 2-21.) Replace any worm or damaged parts, especially businings, beatings, and seeks.
- 4-58. REASSEMELY. (See figure 2-21.) Reassemble an reverse object of disassembly.
- a. Apply Loc-Tite scalars, type "A", or equal to pin (12) before installing beatings.
- h. Adjust pre-load on bearings (14) to 25 to 40 inch
  pounds, by milians of slotted age. Secure not with corter
  lesy through the nearest slot.
- r. If the entire steering axio has been disassembled, the steering system must be reser. Place the rear wheels and steering bensing in secreal (straight-ahead ≰esting condition).
- d. This with hydraulic stearing hooster completely and then extend the red b inches;
- e. Adjust the rest section of dtag link and the tre mis to fit without moving the secting housing from the straight-shood position.
- i. Adjust stop holts (1, figure 1-21) to allow 71 degree angle of bistde whoel with farme (inside wheel in teletion to direction of turn). Adjust stops against sem for both directions. Secure stop bolts with the join outs.
- g. Adjust stop bolts (1A, figure 2-21) on oale to 1/16 inch electance from arm on spindle when streeting arm (2, figure 1-21) is against stop bolt. Adjust stops for both directions. Secure stop bolts with jorn nots. The axia stops must not contact the spindle arm before the stooting arm contacts its stops. The exia stops are designed to prevent Caurage to the system if the wheels deflort when they his an abstraction.
- Make any minor adjustments on the rods of rear section of drag link as necessary.

- 4-90. STITIONG AXER (MY 80)
- 4-91 REMOVAL, (See tigara 2-214),
- a. Jack up cear of lift truck.
- Remove read and of deap link from center steering arm (15).
- demove bolts from axio support shafts (41). Both entire axio assembly away from lift mack.
- 4-92. DISASSEM型LY, (See Siger, 2-21A)
- Remove wheels and tires as explained in paragraph 4:81.
- Asmove trab cap (39). Hemove containing and spin(the heating per (39). Pull tub assembly (32) Isoma steering broadle (7, 8).
- c. Remove seal (20), codes (34 and 35), and cops (32 and 33) from bub,
- 6. Seminar nuts (26) and remove tie rod essembly. Lott on tie rod clamp- (26) and remove tie rod ends (26 and 24) (rom steeps (27).
- Remove draw hey (12), drive out pin (14) and plugs (13). Remove bearings (3 and 9).
- Remove grease dap (15) and out (10). Pull steering arm assembly (15) of shaft (2). Remove copes (19), cups (20), sual (21), and cups (22).
- 4590. REPAIR. (See figure 2-21A).
- Replace any worn or damaged parts, espectably bishings and beautigs.
- Replace seals (21 and 36).
- Replace to rod ond covers (2b) if they are damaged or deteriorated.
- 4\*94. REASSEMD, Y. (See Figure 2\*21A). Reassemble to coverse order of disassembly.
- a. Draw up wheel bearings (34 and 35) with sketted nut. (37) to approximately 50 loot/peons's torque. Back off the nut 1/4 time, then seems with correct key.
- 5. Adjust hearings (19) with net (16) in the same inner ner as in 1-940 phoye.
- Tighten bolts (3) as follows: Dry thread: 95 foorgounds, eiled threads - 75 locs-poinds.
- d. If the entire steering axle has been disassembled, the steering system must be reset. Place the rear wheels and steering arm (15) in neutral (straight-ahead sceering condition).

- Close the hydraulic steering boostet completely and then extend the god five inches.
- Adjust the rear section of the drag link and the tie rods to fit in position without moving the steering arm or wheels from the straight-shead position.
- g. Adjust stop bults (1. figure 1-21) to allow a 56 degree angle of inside wheel to frame (inside wheel in relation to direction of turn). Adjust stop bolts against arm for both directions. Secure stop bolts with jam nurs.
- b. Adjust stop boits (13) on axie to within 1/16 inch from pad on steering knuckle (7) when steering arm (2, figure 4-1) is against stop bolt. Adjust axie stop bolts for both directions, and secure with jain nots. The axie stops mass not contact the steering knuckle pad before the front steering arm contacts its stops. The axie stop bolts are placed to prevent damage to the steering system if the wheels deflect shatply when they lift an obstruction.
- 4-93. BRAKES, INCERING MECHANISM, AND MASTER CYLINDERS. (See figures 2-23 and 2-24.)
- 4-96, REMOVAL AND DISASSEMBLY. (See figure 2-23.)
- Release parking brake, easing cable tension.
- Remove wheel and drum (paragraph 4-91).
- a. Unklock thos tetum springs (9) from anchor pins (5). Spring pliers and removal.
- d. Loosen the shoes by depressing each spring clip (a) In turn, and relating its guide pin (T) one-quarter turn.
- e. Spread shoes (6) from cylinder pash tods (26) and anchor pins (5), and lift our the shoes. Stip the parking brake cable end from the slot in the end of the lever and plu assembly (19).
- f. Unbook star whitel tetranting spring (10) to separate shoe and parts. Remove the level and pin assembly (18) and the link and pin assembly (17) from the shoes by removing the clips (18) holding them to the shoes.
  Pull the anchor pins (5) from the brake spider (2).
- g. Separate the brake line from the wheel cylinder (20) and remove the cylinder from the backing plats (1). Remove the rubbet end boots (24) and push our internal parts.
- h. See figure 2-24. Disconnect tubes (44 and 46) from master cylinders. Pull plus (18). Remove stop light wire from switch (56). Remove master cylinders and linkage.
- Remove tod and boot assembly. Remove lank wire, stop plate, and piston assembly. Remove swivel connector (51) and push remaining parts out piston and of cylinder.
- Remove the podels, linkage, and other components as required.

- 4-97. IEPAIR.
- s. Discard cubing showing signs of leakage,
- b. Discard worn brake linings, broken cables, and broken or weak springs.
- Discard work or blomished wheel cylinder or master cylinder parts.
- Discard wom highings or bearings or other faulty components of the linkage.
- 4-98. REASSIMBLY, (See figure 2-20.) Reassemble in reverse order of disassembly.
- a. Using lubriplate or other brake lubricant, thinly cost the shoe pads on the backing plate, the anchor pins, and the star whicel threads. Also grease the parking brake cable and conduit, and lever and link followin points.
- b. Install anchor plus in the brake spider with the slots in the plus faced to engage the brake shors.
- Collapse the star wheel link, threading the serew into the out. Back off 1/2 ture and make sure it turns freely.
- d. Replace the sheet, first attaching the levet and pin (19), and tink and pin (17) assemblies to the shoet. Install the guide clies, plus, and return springs in the most convenient manner to align shoet to anchors, push rod slots, stat wheel slots, and to hook the parking brake cable into the slot of the lever (19).
- e. Reassembly wheel nytinders to reverse order of diseasembly. Dip internal parts in clean brake fluid to facilitate assembly. Install brake drums and wheels, Assemble master cylinders in reverse order of disassembly, with vent holes in boot at bottom. Fill master cylinders with approved brake fluid.
- f. Blood brakes and unching system as required. Brake bleed screws are located on the back of the backing places. To blood the inching system, depress the pedal and located plug (48, figure 2-24). Replenish the fluid in the master cylinders as necessary.
- g. Jack up side of lift truck. Remove dust cover from star wheel access slot. Intert brake tool to engage star wheel teeth. To tighten brakes, use the slot edge as a filterium, and moving the tool handle toward the center of the brake, rotate the star wheel. Tighten until the brakes are looked solidly against the drum.
- Back off the stat whoel until the dram turns freely (8 to 10 metalies). Replace dust cover.
- Adjust clevis (24, figure 2-24) to obtain 3/4 inchifred travel on the trake perial.
- See figure 2-24. Adjust clevis (17) until sleeve (28)
   1/32 inch from waster (30A), which is hold against shoulder on rod (29) by spring (30). This 1/32 inch free.

play is very important. It allows for expansion of the hydraulic fluid in the lines, thus permitting the plunger in the anching cylinder to return to a fully unloaded position when the inching pedal is released.

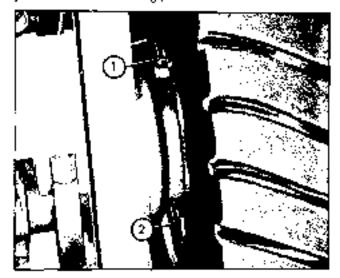


Fig. 1-23. Brake Adjustment Location

- 1. Bloodet
- 2. Acress slot

4-99. DRIVE AXLE AND DIFFERENTIAL.

4-100 REMOVAL.

- a. Block up front end of lift truck. Support transmission case.
- b. Remove drive whoels and brake assemblies.
- across anomating bolts which bold differential to transmission.
- Remove bolts from support clamp (2, Figure 2\*28.)

4-10) . DISASSEMBLY. (see figure 2-22.)

- a. Remove the boits holding the wheel shalt nousings.
   (8).
- b. Remove lock not (12), and washer (13), from wheel shaft (10).
- c. Remove year (11), and wheel shaft (10).
- d. Remove cones (14 and 18), cups (15 and 17), oil seal (18), and sleeve (19).
- Romove bearing totainer (7). Using puller, pellaxle (4) out of assembly.
- Remove drive able housing (1).
- g. Cages (22 and 82A) and the ring gear (27) are assembled and line reamed. For this respon it is

necessary that they he marked before disassembly, so they can be reassembled in their original positions. Remove the nuts from cage bolts (23). Disassemble ring gear (27) and cages (23 and 22A), bevel gears (28), and pinton (30) and shaft (32) assemblies. Remove from differential case.

h. Remove pinjops and heshings (31) from shaft,

4-102, REPAIR, (see figure 2-22,)

- a. Discard geats that show excessive weat of have broken feeth. The ring geat and pinion (27) must be replaced as a matched set only.
- Discard off scals and gazket, snowing signs of leakage. Discard worn or duringed bearings and bushings.
- 4-103. REASSEMBLY, (see figure 2-22.) Reassemble in reverse order of disassembly.
- a. Clean all parts in an approved solvent.
- b. Replace 2)1 gaskers and "O" rings.
- n. Tarque bolts (23) to T1-85 foot pounds.
- Add sufficient shirms (2) to obtain 15 to 25 Inch pounds probad on bearings (24),
- e. When differential is exacted to transmission, move shirts (2) from one side to the other. As necessary, to obtain .006 to .012 Inch backlash between ring goar and transmission pinion shaft (27).
- Add shints (7A) to obtain 10 to 15 inch pounds pretoad on hearings (5A).
- g. Adjust look not (12) to obtain 30 to 40 such pounds pre-load on bearings (14 and 16).
- 4-104, CONTROL LEVERS, CONTROL VALVE, AND OIL FILTER.
- 4-105. REMOVAL. (see Sigure 2-20).
- a. Remove control levets and shafts as explained in paragraph 4-87.
- b. Remove links (48).
- Observment valve body (3) and porting block (1) from transmission case.
- Remove priority valve (items 12 thru 16, figure 2-18), and relief valve (items 3 thru 6, figure 2-18), and compotents.
- Remove all filter assembly (49).
- 4-108, DISASSEMBLY, (See Figure 2-29).
- a. Remove rover host (50) from not filter cover (54)

and remove contridge (5%) and pasts from oil filter body (50).

- b. Remove valve body (3) from porting block (1).
   Items (6) and (8) can now be removed.
- Remove siniting hylinder (23) from valve body (3).
- Aemove snap ting (32). Remove internal parts from moking cylinder.
- e. Remove stap ring (12) and remove including spool (18) and components.
- Remove snap ring (12) and remove pressure regulator speel (13) and compenents.
- g. Remove snap ring (12) and remove both control loves appole (5) and nomponents.
- h. Retuove shap ring (12), blow through elbow (87) to remove plug (11). Remove telled valve (18) and components.
- Remove remaining components.

#### 4-107. REPAIR.

 Discard \*O\* sings, wit scale, and gaskets which show signs of leakage.

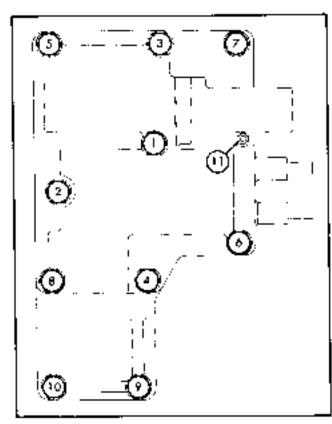


Fig. 1:24. Torque Sequence

- b. Discard damaged hese and tubing.
- Discard broken or weak springs.
- d. Discard matted of blamished valve specis. If the polished surfaces inside the valve body are married, discard the critic assembly.
- e. Clean all parts thoroughly to solvent.
- 4-108. REASSEMBLY, (See figure 2-00). Reassemble in the reverse order of disassembly,
- Screw elbow (#7) with "O" ring (68) into value hody hefore attaching hody to porting block;
- ii. Install control specis (5) in body. Then slip oil seals
   (9) over smoot, do not push specis through seals. Place tip end of outer seal out.
- c. Torque mounting belts (1, through 10, figure 1-24) to 30 faut pounds in the order shown. Then totage the betts to 60 feet pounds in same order.
- Torque sacket head bolt (III, figure 1-24) to 16 foot pounds.
- e. Reptace bit filte: cantridge (52).
- f. Adjust rods (2, figure 1-23) for desired lever position.
- g. Place control levers in high range and reverse positions respectively. Adjust stop bolts (1, figure 1-25) to prevent specis being forced past detent position.



Fig. 1-25. Converter Liekage

- Stop bojts
- 2, Acc;
- 4-109. TWANSMISSION CLASE, CONVERTER, AND PUMP,
- 4.110. REMOVAL. (See figure 2-18),

- a. Bernnye dilferestjal assembly as described in 4\*95 above.
- k. Remove entired valve, printing valve, and telled valve from side of transmission case (paragraph 4-500).
- e. Remove bolts helding convertes drive plate to engine flywheel. Turn engine over to remove each built in turn, through opening and norch. See figure 1-26.

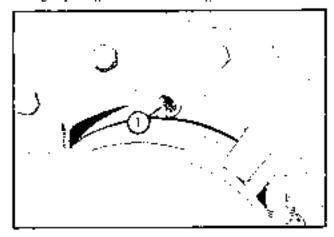


Fig. 1-26. Converte: Mounting Bolt

- 1. Bolt Ened up with notel:
- 4-111, DISASSEMBLY, (See figure 2-18),
- Remove dipstick (10) and dipstick steeve (11).
- b. Remanue drive plate (35), converter (38), and belt housing (32).
- es. Romave pump (35) front covet (17).
- d. Remove filte: mounting flange (26), gasket (27), and filter (28 and 29).
- Unscrew actaching parts and remove manifold (22) from cover (17).
- Remove revesse têher gears cover (39) from side of case.
- g. Semove thits (07, Figure 2-19), and washer (38, Figure 2-19) from pinion shaft (2, Figure 2-19) and tenmove cover (17). Support the shaft to provent damage while the invertis being temoved.
- 4-112, REPAIR, (See Spure 2-18).
- a. Discard all gaskets and "O" diags.
- Discard gears with broken teeth and those that show excessive wear.
- Discaró defectivo convegor and pulique
- d. Clean filter screen (29).

- 4-313. REASSEMBLY. (See figure 2-19). Reassemble in the revent order of disassembly.
- au Histoli all new gaskets and scals.
- Align goars and spline shafts per paragraph 4-118.
- Install between engine and differential. Adjust backlish per paragraph 4-100 c.
- 4-114. TIMINSMISSION AND REVERSE TODGE SHAPE.
- 4-115. REMOVAL. (See figure 2-19). Removed is accomplished with the disassembly procedures of the transmission case, converter, and pump (paragraph 4-110).
- 4-116, piskssammer, (See figure 2-19).
- a. Remove cultertor ring ball bearing (24) and 707 ring. Remove retained ring (250) and piston retained from input shaft (1). Remove piston rings, input shaft ball hearings, natrier to bearing thoust washers, input shaft carrier assembles, plate housing thoust washers, and quad washers. Remove spring retainer shap rings, spring technicers, piston springs, and oil seal rings. Remove backer rings, retaining rings, friction plates, backering plates, input shaft housing pistons and balls, and piston rings.
- Remove components from output photon shaft (2) in same order as on input shall, remove reverse geat (39) and idlet shaft (44) with bearings and components.
- 4-177. BEPAIR.
- a. Clean all parts in solvent and inspect for damage and excessive mean. Interchange all defective parts with new replacement parts.
- 4=118. KEASSEMBLY. (See figure 2-10). Revisembly is accomplished in reverse order of disassembly. This housings (4) are stamped with an TU. for input (upper), and an TO', for output (lower). Be sure to roughtall the pistons and other components in the heasings immediate they were removed. Wipe each part with a class, oil-toaked cieth.
- a. Reassentitle pistons and nomponents on thaits and into housings in proper sequence. Install pistons (6 and 7) in each loosing with oil retion holes 180° apart for proper palance. A spot of grease will half balts (9) in place during reassentitly of pistons to housings.
- b. Reassemble detailer assemblies and components to shafts. IT IS VERY IMPORTANT THAT THE URL HOLES IN THE CONFIDENCE AND THE CONFIDENCE AND ARE ALLOWED WITH THE SERIES OF FOUR AMAIL IN LINE OIL MALES IN THE SHAFTS. MARK THESE PARTS AS NEURASAND TO ASSIRE PROPER ASSAMBLY AND SUKSSOUENTLY PROPER OPERATION. Coat quadrings (0A) with Lubriplete to protect them during sweeting. Stake retained (250) to groove in shalt. Seat all look and retaining

tings properly. Use new oil seals and "O" rings. Fit parts properly: avoid scretching or burning finishes.

- Do not use Permatex on алу gaskots.
- d. Adjust taget roller bearings on pinton shaft to 10-15 inch pounds not rolling torque pre-load.
- e. Torque bolts as follows: 5/10 juch. 20 soot pounds: 3/8 inch. 40 foot pounds. 2/2 inch. 60 foot pounds, and 8th 5/8 tuch holts to 180 to 180 foot pounds.
- Forque converter must turn freely with transmission holized to crankcase, but before bolting the drive plate to the flywheel.
- g. End play of clytch pack on the input and output shafts is to be 0,012 to 0,024 inch between brasings.
- h. End play on the Idler shaft is to be 0,000 theh mini-
- After assembly is complete, check converter chargeing pressure by installing a gage in opening of plug (2, figure 1 • 27).
- Check HTGH and LOW shifting charging pressure at points of plugs (1, figure 1-27). Gage should read 95 to 105 PST.
- k. Check FORWARD and REVERSE shifting charging pressure at plugs (4, figure 1-27). Pressure should be 95 to 105 PST.
- Check pump charging pressure at plug ticke (9, figure 1-27) on top of transmission. Reading is to be 100 to 140 ps).

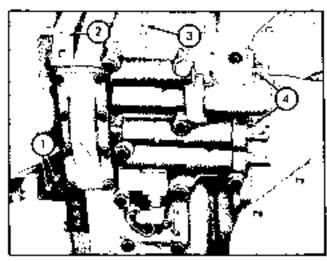


Fig. 1-27. Presente Posting Ports

- HIGH and LOW check ports
- 2. Converter chatging check port
- Purip charging check port
- 4. FORWARD and REVERSE check ports

- m. Pressures given above cannot be regulated. If gage readings do not fall in specified range, remove and clean valve and telested parts, and telestall. If readings still are not correct, install new components.
- 4-119. THE PHAP AND PHE PLYER,
- 4-150. REMOVAL, (See figure 2-6).
- a. Disconnect fuel lines from pump and held filter,
- Remove the 2 capscraws that secure the pump to the engine side cover.
- 4-123. DISASSEMBLY. (See figure 2-6).
- a. Loosen the bail out (16), swing the bail to one side, and withdraw the bewt (13).
- b. With coraliners (8) removed, tap out arm pin (7).
   Pull clip (22), press out pin (21), and withdraw link (20).
- Remove cover and life our remaining components within the body.
- 4-122. REPASS. Repair of the fuel pump is littrited to discarding damaged, bent, or supported (displitagen) parts. Wash all parts in solvent and blow dry with compressed air. Check the spring for quick catter, action, when compressed and rule ased.
- 4-.33. REASSEMBLY. (See figure 2-6). Reassemble the fuel pump and filter in essentially the same order as disassembly, except that core must be taken not to damage or distort the draphragm by not aligning the cover holes properly. Using a new gasket (23), secure the assembly to the engine, and connect the fuel lines.
- 4-124, CARBURETOS, (GASOLINE).
- 4-125, REMOVAL. (See figure 2-7).
- a. Lossen screw (39), remove offic (36), and pull the choice control cable out of the swivel (39).
- b. Remove the air intake hose and the fuel line. Rediove the two capserows that secure the carbinezor to the manifold easting.
- 4.128, DISASSEMBLY, (See figure 2-7).
- a. Disassembly of the carburctor is complete upon removal of all attaching parts of each component. The following steps outline the various troubles and which components cause them.
- b. Some factors other than family operation of the narrowers that could contribute to improper operation of the engine are as follows: family ignition system, incorrect rutting, our cleaner abnormally restricted, or air leaks. Check for and correct any of these conditions that may exist.
- e. If the engine is not idling properly, check the gas-

ket between the manifold and cylinde; head and also the gasket between the carborator and manifold. Alt loaks at these points will cause errarly idling,

- The principal parts subject to wear in the carburctor are the throttle shaft (2), the float valve and seet (15).
- 6. Wear of the thruttle shak results in more air entering the carburetee than is necessary. This condition testiles in too loan a gas mixture when the engine is idviting. To compensate for the increased air supply, it is usually necessary to enrich the idle gas mixture, this in turn, affects find economy. In addition, this excess air is unfiltered and could cause serious damage to the engine.
- Excessive wear of the float valve and seat will result in the high a fuel level in the narburetor bowl. This high fuel level causes excessive fuel consumption, crankcase dilution, and difficulty in maintaining satisfactory adjustituent of the cathorisot.
- g. If the first level is too low, the engine with not respond quickly, and it will be very difficult to make take a satisfactory carburetor adjustment. A sticking float yalve or float arm could cause a low fuel level.
- 4-127. REPAIR, (See figure 2-7).
- a. Inspect all parts taken from the carburetor. Replace any damaged or expressively worn parts. Discard all gaskets, the cheke-shaft packing, and the throttle-shaft seal.
- b. Using a cleaning solution, thoroughly clean the threato body (1), the certureter bowl (19), and all parts being used again.
- 4-126. REASSEMBLY. (See figure 2-7).
- Assemble the carbureter in the numerical sequence as shown, with the following exception;
- b. The float (12) controls the fuel level in the cathuretor howl. Turn the throatle hedy (1) upside down, and measure the distance between the float and the milled surface of the throatle body. This distance should be 5/16 inch. If necessary, bend the float artis in either direction to obtain the context dimension.
- Secure carburetor to exhaust manifold and make hose, tube, and cable connections,
- 4-129. LP-GAS EQUIPMENT.
- 4-130, REMOVAL. (See figure 2-10).
- a. Cluse firel valve on tank.
- Disconnect all hoses, wires, and linkage and remove the darburetor and vaporizer from the engine.

- 4-13), DISASSEMBLY AND REPAIR (CARBURETOR),
- a. Remove main cover and displitagm, clean thoroughly with solvent, blow dry with air hose, inspect for damage of weat. Glean bishe carburetor, using small brush for orifine. Check for air leaks around outer edge of diaphragm, carburetor to manifold gasker, and vacoum pick-up openings in flange.
- b. To replace diaphragin only, out off diaphragin to remove from assembly. Carefully gretch new diaphragin over one back-up plate; the diaphragin should float freely between the two plates.
- 4-182. DISASSEMBLY AND SEPAIR (VAROSIZER),
- a. Remove cover assembly. Check "power rain" operation by sucking on vacuum tine connecting port. Turn
  and remove main vaporizer diaphragin assembly. Glock
  seal in diaphragin stem. Clean or replace liquid seal
  pad. Clean chamber thoroughly. Remove levet assembly, check seat (there is a space seal on the lever arm),
  check for heat lever or wear at the connecting slot. When
  replacing vaporizer seat, it is recommended to replace
  complete lever arm assembly.
- 4.133, REASSEMBLY.
- a. Reastemble in reverse order of disastembly.
- b. When sostalling diaphtagm assembly in carbonetor, he sure to allow sufficient stack in diaphtagm so the fuel and air valve can move freely. Use guide pink if possible.
- c. In vaporator, to reconnect dispkragm assembly to lover: with liquid seat pad and cover installed, insert screw driver to hold goat in closed position, place dispkragm tab at 90°, rurate to position, check for connection.
- 4-134, Opt. FUMP.
- 4-125. REMOVAL (See figure 2-15). To remove the oil pump, first drain the grankcase oil. Remove the four stud nuts and the cap schew which scoper the oil pump body (1) to the crankcase, and then remove the oil pump.
- 4-136. D[SASSEMBLY] (See Tigure 2+13),
- Remove the geod (14) on the drive shaft, and the Woodbuff keys.
- b. Refore removing the drive shaft for the oil pump, it will be necessary to remove the distributor. The drive shaft for the oil pump affects the engine timing. Thus the engine over until the No. 1 piston is at the top dead center of its compression stroke and the motor is pointing toward the post for the No. 1 cylindet.
- Mark the position of the distributor totor and the distributor hody. Notice that the slot in the distributor drive coupling is off-center.

- d. To comove the drive shaft for the oil pump, lucsen the look nat, and back out the setserew. Remove the oil pump drive shaft.
- a. Check the condition of the bushings (17) for the oil pump drive shaft. Use a screw-type extractor to remove these bushings of they are damaged. Press the lower bushing is the crankcase until it is flush with the bottom of the crankcase. The upper bushing should be flush with the top of the bushing hole. These bushings are line-bored. The correct inside diameter of these bushings after they are line-bored is 0.625 to 0.626 inch.
- To replace the grooved busing (18), drive our the coupling rull pin, and slip both parts oil the shaft,
- g. Remove the check valve and the pressure regulator serve (8).
- 4-137. REPAIN. (See Figure 2-18).
- a. Check the condition of the drive shaft (13), the coupling for the drive shaft, the grooved bushing, and the photon (16). Replace any excessively week or damaged parts.
- b. If any of the springs are broken or have taken a "sor", install new ones.
- Check the conductor of the oil pump genrs. Resplace them if they are oblipped, ctacked, or worn excessively.
- 4-135, REASSEMBLY, (See figure 2-13).
- a. Insert the oil pump drive shaft assembly in the example, make certain the sket in the excepting and the largest section of the coupling on the distributor are in all germent. After installing the oil pump drive shaft, turn the sectors all the way in and sectors the look mut.
- b. Install the Woodraff keys on the oil pump drive shaft, and reductable the oil pump drive goar on the shaft.
- Assemble the remaining components observing the following stops;
- d. There mest be 0.002 to 0.004-such elearance between the end of the oil pump drive gear and the oil pump boosing. To obtain this clearance, add of remove gastreps (20), between the bortem of the crankcase and the top of the oil pump boosing. Insert a piece of Plastigage in the pump boosing directly betweat the oil pump drive gear. Re-install the pump, and securely lighten the cap serew and four studious. Remove the pump, and chark the flattened Plastigage strip, using the scale printed on the Plastigage envelope, Add or terrove gaskers as necessary to obtain the 0.002 to 0.004-inch elearance.
  - NOTE: When using Plastigago, make certain

- that all the oil is off the pump body and gosts. This is necessary as Plastigage will disolve in oil.
- c. When to assembling, be sure to align the compling on the distributor and on the oil pump drive shaft. If the engine was not turned over while the drive shaft was temoved, the parts can be installed in their original position and the engine timing will be correct. However, be sure to chark the timing, after reassembling, using a neen timing light.
- 4-189, ENGINE
- 4-140. βΕΜΟΥΑΣ, Many of the overhald procedities. described below can be acromplished without removing the origino from the vehicle. For any major overhaut, however, such as replacing the camshaft or crankinaft, the eigmic must be removed. Remove the overhead guard. Remove the cogine hand sections. Disconnect. all wiring, tobung, hoses, kinkages, etc., that are connected from the engine to the frame or other compenents. Renadyo the tadiator as described in paragraph. 4-42. Remove the hattery and box. Remove the holts. from the engine mount (6. figure 2-28) and the botts from the forque converter drive place (see flyure 1-26) and don-Verter housing. When all parts are free, move the original directly to the rest and talse the engine completely upand out. Lower the engine onto a sintable support, using wood blocks to avoid damage to the assembly,

### 4-141, DISASSEMBLY AND REPAIR.

- Remove the cylinder head cover (18, figure 2-2), and the seleptor (16). Remove the side cover (27, figure 2-1) as an assembly.
- Disconnect the rocker arm off line and the rocker arm assembly,

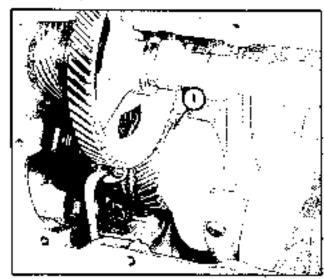
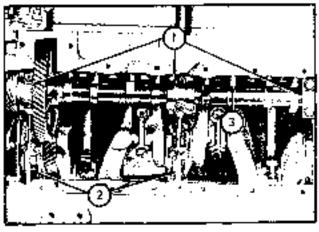


Fig. 1-2B. Gear Timing Marks

Timing marks

- Regions all cylinder head studings. Withdraw past ruds (28, fighte 2-3), and temove the heads.
- d. To replace the nameliaft, first toru the engine over until the timing mark on the grankshaft throw lines up with the mark on the caushaft goat. See figure 1-28.
- o. Romove the cap screws from the camshaft bearing caps (ligger 1-29). Remove the screes holding the oil lines to the crankshaft bearing caps. The center and the front hearing caps are not interchangeable. Before sermoving the center and the from hearing caps, he sute they are masked with a center punch. Remove the poarting caps, and keep them in their original order. Remove the carrishaft. Keep the tappets in their original order.



∾ыд. 1-29, Эвалія<u>я</u> Сары

- 1. Camskatt bearing caps
- Of lines
- 2. Tappet
- To service the pistons, targs, paston parts, or countesting rads, it is not necessary to remove the engage from its mounting base.
- g. Remove the hearls and side cover as explained previously. Disconnect the rods. If the cylinder has a ridge sepand the rog, remove the ridge with a reamer DEFORE attempting to push out the piston. Failure to remove this ridge before removing the piston will invariably result in darriage to the piston ting lands. Excisise extreme cate when using the ridge reamer. It is possible to cut so deeply into the cylinder wall or to ream our the metal to lar down in the cylinder that it will rule the cylinder, or it will be necessary to rebore the cylinders.
- Alter termoving the ridge, bring each piston to the top of its stroke and wipe the reamer cutnings from the top of the piston. Be very careful not to allow cuttings to drop into the water jacker operang or into the crankfinase. After removing the pistons from the cylinder, place them in a tack to keep them in order and to provent damaging the rod or piston.
- Soak the pistons in a suitable liquid cleaning volu-

- tion. After thotoughly soaking the pistous, clean all the parbon from the top of the biston with a suitable. scraper. Gloau the earbon from the tang grooves with a rang groupe gleaner or a broken sention of a ring, If using a broken sing, file one end of it to a sharp, square edge. Clean megal should be evident over the entite area of the ring groove. Use care to avoid removing metal from the hottoin of the ring groove. Carefully clean the off forum holes in the oil ring. grouve, assing a drill of the proper sixe held in a tap. wreach. Never use a stool buffing brush to clear the ring lands or skirt of a piston. After thoroughly cleaning the pistons, carefully examine each piston. Besuch there are no cracks in the head or skirt of any of the pistons, and check the rings lands to be sure they are not bent or broken. Replace the piston if any of these defects are found,
- j. Check the ting grower for wear, using new rings. The top rings should have a clearance of 0,000 to 0,004 meh herween the ring and ring grower in the piston. An additional 0,001 finch allowable for worn pistons. The second ting should have a clearance of 0,0015 to 0,0035 inch with an additional 0,0015 linch cleatance allowable for worn pistons. The third and fourth rings (single growe) should have a clearance of 0,0005 to 0,0036 inch.
- k. Check the cylinder bore with an inside micrometer to determine of the bore is out-of-round, tapered, scored, or worn excessively. The factory limit for a standard cylinder bore is 3,7522 to 3,7516 inches. Heliore of replace the cylinder blocks if the wear, taper, or out-of-round exceeds 0,008 inch.
- Pistons are available in 0.000-inch and 0.040-inch overelae to correspond with the cylinder bote. The bore dimension limits for 0.680-inch oversize pistons are 9.7722 to 3.7716 Inches. The bore dimension limits for 0.640-inch oversize pistons are 3.7922 to 3.7318 Inches.
- on. Deliglace the cylinder walls when servicing the sings and pistons. This will emable the rings to enate or seat more quickly and will control the oil better, however, he sure to thoroughly clean the cylinders after deglazing thum. Any abrasivo matemat left in the engine. after reassembling will cause capid wearing of the rings. cylinder walls, and the bearing surfaces of all parts tube:duted by the brankdese of to Use a good, 280-grit, springloaded surface fione when denglazing the cylinder walls. We recommend the following procedures to obtain a sate istantory de-glazing job. First temove any hard caroon. deposits that might be present within the dylinders, then waps the cylinder out with a cloan cloth. With the pistonand rod assembles out of the engine, narefully pach a clean, dry tag or a paper dampened with water at the bottom of the cylinders. This prevents abrasives and dirtfrom getting mid the grankshaft of Into the grankdaso. Dip a clean cotton spring mop in clean No. 30 motor cit, and swab the cylinder walls. How the syrians home in each cylinder (naking 10 to 12 complete strokes). Move that home up and down in each cylinder rapidly enough to ob-

tain a pattern with the cross-hatching Intersecting at about 60°. Clean the loose abrasives from the home with a clean electh before using the hone in the next cylinder. Repeat the de-glazing procedure in each cylinder. After honing, wipe as much as possible of the abrasive deposits from the cylinder walls. Swab each cylinder with elean No. 10 ml. Carefully wipe each cylinder with a clean cloth. One swabbing-wiping operating is not sufficient. Centinue the swabbing-wiping operation entil a clean, white cetten cloth remains absolutely ensoiled when rubbing it on the cylinder wall.

#### NOTE

Do not use gasoline or becosene to clean the cylinders after de-glazing them. Solvents of this nature will not remove the grit from the walls.

- n. The recommended elearance between the cylinder walls and the skirt of pistons is 0.003 inch. To check this clearance, place a long 0.003-inch feeler strip 1/2-inch wide between the side of the piston and the cylinder wall, in line with the pin. The piston should enter the bore with this feeler in place, but should not do so when using a 0.004-inch feeler strip.
- o. Carefully check the rods to make certain they are straight. A bent rod is likely to make the pisten operate at so the ring laces are not parallel to the seriace of the cylinder wall; a bent rod will also cause prematize bearing fallore. Accurate alignment of connecting rods is peressary for correct ring and bearing operation. To check the rod for rwist or parallelism, place it in a fixture. Using an aligning tool, make any adjustments necessary. Install a new rod if the nid too cannot be properly aligned.
- p. Always check the end gap of each ring in the cylinder. Insert the ring in the bore, and push the ring down with the top of the piston. This squares the ring in relation to the cylinder bore. Push the rings down to the bottom section of the cylinder just below the normal travel distance of the rings. When checking the end gap of new rings in a new cylinder, the rings should have an end gap of 0,010 to 0,020 inch. The end gap of the rings may vary somewhat from these electrances, depending upon the amount of cylinder wear.
- c. While disassembling, he sure to much any parts being used again. During the original time the engine was not, each engine part works into its mating part and becomes especially suited for its own particular position in the engine. In addition to normal engine wear, other factors contribute to hearing failure. Therefore, duting disassembly of an engine and before reassembling it, try to determine, analyze, and correct the original cause of bearing failure. It is just as important to correct the cause of bearing failure, as it is to replace the worn bearings. Some other factors which could cause bearing failure in addition to normal wear are as follows: dirt, misalignment (including rods and caps), incorrect assembly, lubication failure.

out-of-round bearing statedes, futigue, currosion, and incorrect methods of engine operation (including over-loading). Check for, and correct any of these causes which could have contributed to bearing faiture before reasserabling the engine.

r. It is extremely important to check the crankshall for scored rod-bearing jointals or main bearing juintals. If the jointals show evidence of scoring, it will be necessary to replace the crankshaft. Using a micrometer, measure each rod-heating journal and each main-bearing journal at various places around the journal to be sure it is not tapered or out-of-round. If the paper of out-of-round of any journal exceeds 0.000 tools, seplace the prankshaft,

#### NOTE

When re-using a crackstaft which has slightly capered or our-of-round journals (less then 0.003 inch), be sure to fit the bearing to the maximum diameter of the journal. If the bearing is fitted to the minimum diameter of a slightly out-of-round or rapeted journal, litterference between the bearing and journal will result in rayld bearing failure.

- Remove the flywhool (19, figure 2-4). Remove the rear off-scal totainer, and the bilot-bearing retainer. Remove the bolts which secure the rear main -boaring housing to the krankcase. Remove the front main-bearing cap and the center main bearing can. Notice that the center main-bearing cap and the front main-braring day have different identification marks and are not interchangeable. Using a bearing comoval plug, toll the inner inserts out of the crausease (tip and of ensert first). Turn the crautellaft so the number 2 and the number 3 red journals are to the outside. If the rod and pistum assemblies are in the engine, post them up out of the way. Using a lead hammer, or a wood block and a hammer, drive the crapishaft toward the rear of the engine until the sear bearing bousing is out of the crankcase. Use extrame care to prevent damagain any of the rods of crankshaft journals while removing the craukshaft,
- t. Remove one of the long dowel plus from the end of the translatalt. Remove the top half of the rest-main bearing, and remove the insert from the lower section. Position the tear-bearing housing in relation to the dowel plus. Notice that the open section of the bearing housing is opposite the remaining long dowel pin. Move the open section of the housing out and over the end of the crunkshafe.
- u. Remove the cranishair (1, figure 2-4) from the crank-case through the side cover opening in the mankcase. Remove and clean the oil strainer. Clean out all the oil passageways and the oil tabes in the crankcase.

# 4-142. REASSEMBLY.

a. When reassombling, do not install the rear mainbearing inserts until the craulestraft is in the crankcase and rear main-bearing hossing is on the shaft. Install new gaskets between the bearing housing and crankcase. Figure 1-30 shows the correct position of the bearing insetts in the cap and housing. Be sure to install the bearing cap so the looking higs on the losers are on the same side.

- b. After cleaning the surface of the shalt and bearings, apply a liberal amount of \$.A.R. 90 oil to the surface of both inserts: Install the bearing cap. Torque the bearing cap boirs evenly and gradually to 60 to 65 foot pounds.
- c. Check the examplial tend clearance. There must be 0.002 to 0.002 inch end play between the erapshaft thrust shoulder and the flange on the rear main-hearing insert. Make certain the fitting in the rear trials-bearing housing is in line with the oil tube. Drive the crackshaft and rear main-hearing housing all the way forward into the crackcase. Using a bearing removal plug, turn the translation and roll the center main-hearing insert and the front main-hearing insert the hearing seat first.

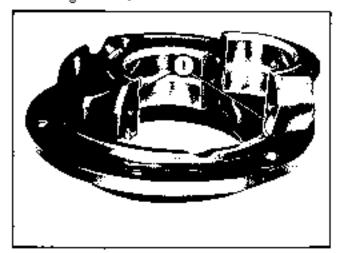


Fig. 1-30. Bearing Looking Lugs

# Locking Jugs

- d. Refore installing the center main or the front main-bearing dap, righten the bolts in the rear bearing housing an the correct sequence and to the proper torque. Tighten these bolts a little at a time and in a prisences macour until reaching the full torque value. Correct torque of these bolts is \$5 to 60 foot-pennels. The proper torquing (figure 1-31) of this housing is very important as it will affert the alignment of the crankchaft. An incorrectly aligned crankshaft will cause premature beating failure. Testall a new dowel pie to the cranks shaft.
- c. Itistall new gaskets and seals when reassembling the ungine. Install a new teat off seal in the retainer. Use a new gasket between the retainer and the rear main-briating housing when reinstalling the bearing caps. Torque the foot and center main bearing cap belts evenly and gradually to 30 to 100 foot pounds.

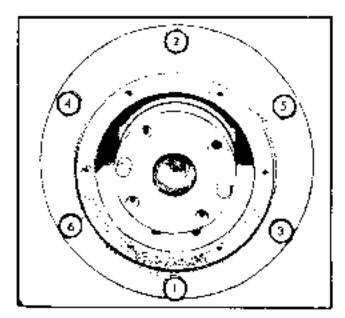


Fig. 1-91. Torquing Sequence

- f. Defore installing the front oil soul for the prankshaft, cherly the condition of the seal. Justallia new soul in the cover if the old soul appears damaged of worn execessively. Use a new gasket between the cover and grank-case. Relitabilities oil seal cover, the key, the crankshaft pulley, the washer and cap screw, and the fan helt.
- g. Before reinstalling the flywheel (29, figure 5-4), make certain the pilor-bearing retainer is in place on the end of the crankshalt. Then the crankshalt so the number 1 cylinder and number 4 cylinder crankshaft Journals are straight up. The DC+1 mark (figure 1-32) should be in line with the opening in the side of the crankease.

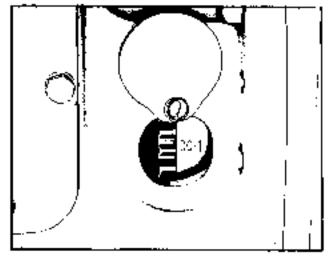


Fig. 1+32. Flywheel Timing Mark

It. Ruinspall the tappets, canadalt, and temainder of the valve train assembly (figure 2-3). Make certain to align the timing mark on the canadraft good with the through track on the crankshaft figure.

- 1. Check the amount of crankshalt end play. With a small pry bar, there the shaft toward the rear of the engine. Using a feeler gage, whealt the amount of clearance between the direct surface of the crankshaft and the thrust surface of the bearing. The correct crankshaft and plearance is 0.000 to 0.000 inch.
- j. Delote installing the oil pump drive shaft, make nomain that the IX.-1 maybron the Bywheel is centered in the timing opening frigure 1-32), and that the number one piston is at the ton dead center of its compression stroke.
- k. Make certain the surfaces of the crankcase and blocks are absolutely clean before reinstalling the block. Use new gaskets when reinstalling the blocks. Fighten the block managing below to the block managing below to the reassembling, he sure to expectly torque the heads and adjust the valves as explained below.

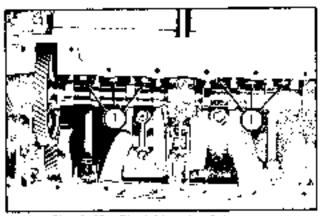


Fig. 1-32. Block Mounting Rote

#### 1. Mounting botto

7. Atways use now gaskets when remaralling the heads. The copper-sheet side of the gasket should be toward the top of the engine. When rightening the head outs, digitarities nots at 20 feet-pounds intervals and in the sequence shown in figure 1-34. Tightening the note is this manner smooths out the gasket and squares the head on the block. The correct regard of the head outs is 70 to 70 footh-pounds.

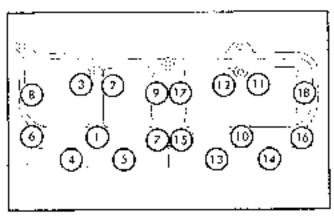


Fig. 1-34. Head Torque Sequebox.

- es. Adjust valves as follows: Cold---intake 1010 tieh: eyhajist 1018 ineb. At operating teleparature\*\*-intake 1008 ineb. exhaust 2010 linch.
- 4-545. HYDRAUDO FIMP (MY 40).
- 4-144. REMOVAL: (See figure 2-80).
- a. Drain the hydraulic tank. Remove the suction scrainer (40),
- to Remove the bases from the pump (1) and remove the nump from the engine side cover,
- 4-14), INSASSEMBLY, (See figure 2-50).
- a. Remove helical gear (35). Remove stocket head screws, and tensove bearing adapter (8).
- b. Romove drive shalf (5). Romove snap rings (8) and bearing (7).
- Germanyo Cow director associatily (24). Remove plug. (27), justica (25), and spring (26).
- d. Bemove plug (22), spring (80), and valve (C0).
- e. Remove cover (3) and semaining components.
- 4-146, R&PAIR, (See (igure 5-10).
- a, Replace all uil scals,
- Cheek condition of all bearings and replace fourty components.
- Oheck condition of guass (6, and 15) and drive shaft.
   Replace faulty commonants.
- Replace 50dy and pump wear plates (18 and 19).
- 4-147. REASSEMBLY. (See figure 2-90). Reassemble in reverse oping of disastembly.
- Tracque dover\*to\*body balts to 190\*210 inch pounds.
- h. Terque flow divider assembly senker head belts to 190-210 inch-pounds.
- e. Torque mounting holts to 10 to 20 feet pounds.
- d. If coorseary, add or commve shims (01) to obtain celled pressure of 1250 PSI. Heatall gage in immediatoring pressure line, and turn teat wheels against wall or other solid object to activate policitivate.
- 4-348, HYDRAULIG PUMP (MY 60).
- 4-149. REMOVAL, (See figure 2-30A).
- a. Drain the hydraulic tank. Remove the suction strainer (35).
- b. Disconnect the lipses and lipbing from the pump-

- (1). Leasen the set screw in the suppling (15), remove the pump mounting bolts, and remove the pump (1) from the support (30).
- 4-155. DISASSEMBLY. (See figure 9-50A.)
- $\mathbf{a}_{i}$  . Remove the foot socker bond screws from the flow divider assembly (18) and remove the flow divider for a fine cover (3).
- in. Mark the gear plate (13) and cover (3) so they can be reassembled in the satte relative position. Remove the six rever-to-body index and secretar the cover, gear plate, and hody (2), and their components. Note the position of the idder goar (8). The geat is symmetrical, but any second of wear requires that it is, cost semicood in the satte position for proper mating with the drive shall gear (8).
- c. Remove the retainer (3), oil scal (7), and "C" ting (8).
- If there is evidence of bearing damage, remove the bearings (4) from the body and cover.
- a. Remove pling (21) and 100 rtog (82), and withdraw pisron (19) and spring (20).
- Remove thay (25), and withdraw shars (25), spring (24), and esize (26).
- 4-181, REPAIR.
- a, Toplace wear platts (12 and 13).
- b. Replace of seal (7) all "O" rings (8, 17, 22 and 27) and seats (14 and 15).
- Examine all remaining pasts catefully for what or damage. Distard any facility concentrat.
- 4-000, R6ASSEMBLA (See Figure 1-99A.)
- a. Adams and in reverse order of desistembly. Needs all parts immaculately clean during prassembly. Diposals and "O" singless clean hydryl to off to fore installing.
- b. The wear clares (12 and 13) are not identical. They must be installed as shown in figure 3-25, with the plant with the slots toward the purity body (2) side of the post plate (10).
- c. The idler gear (9) most be installed in its original paginer. And 4×150b above.
- d. Torque des coverne-body and 9kw divirer arrache.
   ing botts to 190 to 210 meli points.
- e. Add or remove sinith (25) to obtain to inf pressure of 1250 986. Tustall gage in cover steering pressure the and tush tear wheels against wall or other solid object to activate relief valve.

- 4-168, THYDRAULIC CONEROL VALVO.
- 4-154. REMOVAL. Remove all taking and loses from the capted valve. Remove the control valve from the mounting.
- 4×103. DISABSEMBLY. (See figure 2-84).
- a. Remove ball three kiping (11), "O" ring (12), and three valve planger (13).
- b. Remove cap (20), gasket (21), drives and washers (19 and 19A), spring and golds (10 and 17), demove ball (18). Pernove vs. ve sent (14), "Of ring (13), and plunger (16).
- c. Remove rubber bonnet (10), shap ring (8), and disc(8),
- d. Remove bolt (6), lock washer (7), and grap collection contesting spring (9), and step washer (4).
- Obsconnect framéles from specie by remeeting the corter pin and boudle pint.
- I. Push speed into notating from front of calve (control handle end) out it from soid (2) is reposed, then remove front seal. Pull speed out of homing from front end, being very careful that neither speed not been is damaged in any way. Remove rear seal (2),
- 4-696, REPAIR,
- as. Thoroughly clean the scal groovers
- b. Install new scals, "O" rings, and gasker ((1)).
- Examine all parts corefully and replace any damaged or faulty components. If a spool or the valve is damaged the entero assembly must be replaced.
- 1-15T. RFASSAMSLY, (See figure 2-51). Reassemble to reverse order of disassembly.
- Wash all parts thoroughly in an approved solvest;
- b. The speeds <u>must</u> be installed in the corts from which they were tempored (the spool with 0 grooves thus be installed in the pool nearest the interside of the valve). Install the spool from the front of the valve, small the spool end can be sine tent seal groove.
- c. Dip new seal in hydraulor flund and place seal in reargrower, with the "O" map of the seal toward the valve, body. Straighten the seal by running a smooth rist around the expressed surface of the seal until it fits perfectly.
- d. Push the spool further into the housing, with a regarding revenient, to ease the spool through the rear sext. Firsh the spool just for enough to to expose the front sext groove. Depinew sext in hydrouth fluid and install front sext with the TU" cup toward the policy body and arraighten sext as explained previously.

- e, worrdy pixtl spool forward with a retaining motion, to ease the spool diseasely the front scale. Position spool with 1/4-inch of polished suctace of the spool exposed at from of value.
- f. Install new rubber bonness.
- p. Install check valve assembly with new "C" ring (12), Tighten plug (11) to 36 feet pounds.
- a. Install relief velve assembly, with new 70° ring (28), highten valve seat (24) securely. Install half (28), guide (17), spring (18). Use sufficient washers (29) of shifts (19A), or both, to obtain relief prossure of 1959 PSI for the MY 60. Each washer (19) affects the pressure oppositioately 500 PSI cach shift (19A) offects the pressure approximately 500 PSI. These the pressure at either plug eyening (1, figure 1-95).
- Install new gasket (21). Tighten cap (20) to 45 foor pounds.



Fig. 1-35, Hydraelja Pressuge Lines

- Pesting ports
- 4-158, HYDRAULIC STEERING BUOSTER.
- 4-159, REMOVAL. Disconnect the horos. Disconnect the drag link from the by frantic steering boostes. Remove the beaster and the sear section of the drag line.
- 4-160. DISASSEMBUNG (See figure 2-27).
- a. Remove the war section of drag link from the houster,
- b. Dot in the oil from the booster by mosting the piston red in and our from one extreme of travel to the other.
- Samova slotted but (18), custion retainers (15), and uniners (11) and looses, Remove and place (15).
- d. 8 more, retained ring (11). Pull back Charply on pictor, and to thew out scale and rings (8, 8, 10, 12, p. d. 11).
- . A more rate per ring (14) and bearing (5). Remove  $(i \in \mathcal{H})$  and 'O' may (6). Remove the piston and reduce the Piston and reduce the Piston (1).

- I, With storted nor (33) temoved from ball stud (31), temove dust scall cover (42) and dust scall (41).
- g. Stratighten out the 2 staked places and remove endcap (43). Remove look pin (33) and macrow adjusting plug (37). From analysis plug, remove waster (36) and apping (35). Remove outer right seat (34) and isall stud-(31).
- b. Unserew lubricator flying (44). Pull out half socket bousing (40) and remove 2 steel halfs (82).
- i. The valve sub-assembly items 21 through 30 (anothsive, and shelf (28) is can now be removed. Use note to avoid damage to she fittends listly the end of the cylinder housing when pulling our this assembly. The 4 small 50" rings (20) may or may not remain in their counterfores. If not, they should be found on the face of the cylinder head.
- ). To simplify disassembly of floring rod (29), speker shell (36), and valve body and spool sub-rescribly, resussemble ball soud (31) against inner ball seat (34), install outer ball seat (34), indeed an expectable, this will end to be an floring rod (20) from turning when unscrewing classic step aud (30).
- k. After clostic but has been removed. Washer (24), denseting readlets (22 and 22A), "O" ring (23), soring (21), socket shelf (35), and flexure sed (29) can be disassembled. The spool may now be removed from the valve body (nowever, note the position of the valve spool as it is assembled in the valve body (19). To remove spool, push soward ball stad and of unit.
- Remove by passive two assembly (26, 27, and 29). The plug (26) is a fairly right fit, but can be removed.
- 4-161. REPAIR. (Nov figure 2-27).
- a. Replace all oil scals and "O" sings.
- by Wask at liparts in an approved solvent.
- e. Experience of potes carefully for sorarches of nicks. If any of the policied surfaces are marred, discord the faulty component.
- 4:162. RSASSYMBLY. (See figure 8:27).
- Place "O" ring (26) at spool and insert shoul in valve, body from ball stud end,
- Drop ball (27) into note, place spring (28) over plug stom (29), and prost in bold until flush with face of valve body.
- c. Place Comme took (89) in speket shall (89), insert inner of I seat (34), ball stud (11), ourer hall seat (34), and adjusting plag (89). Then this essembly in vise, holding at threaded and of socket shall.

### NO NET DAMAGE THE SHELL BY CLAMFING IT TOO TIGHTLY IN THE VISE,

- d. Slide valve body and spent assembly over flexure rod (end of valve body with 4 boles counterboard for small TO" rungs must be up),
- e. Assemble washer (22), spring (21), washer (22A), "O" rung (23), another washer (29A), and rerained washer (24). Press narefully into volve body until clastic out (30) can be started or, flexure too. Using box wrench, push down on top of washer (24), at some time rotating valve body (13) back and feeth cettil TOT ring (23) and party washer (22A) enter valve body completely.
- t. Tighten elastic nut (12) to 10-12 foot-points,
- Remove ball stuc, Bents, and adjusting plug from socioty shell.
- h. Assemble 4 "O" rings (20) to valve body. Slide valve body into cylinder housing. Roll pin assembly in valve body must fit in center hole in role of cylinder head.
- Assemble socket bossing (40) over skell (39), aligning slotted opening in housing with rectangular opening in cylinder bossing. Aften socket shell with openings. Install oncer hall seat (34).
- Place small amount of heavy grease in small holes. In socket shell, and install great balls (89).
- k. Install half send (31) in skeft forcingly opening in cylinder housing. Be sure balls terrain in piace. Install outer half seat (34).
- 1. Place washer (36) and spring (35) in opening of adjusting plug (37). Surew plug into socker shell. Taghten plug finger tight, then back off to nearest hole for look. Stud should be first, but move freely.
- m. Insert look oin (38) and anap to place, arraw in endcap (48) until tight. Orthophylinder bousing in Siplaces as provided in end cap.
- c. Assemble the remaining compenents in the reverse order of disessembly. Assemble "O" ring (12) over piston rod end, being careful net to out "O" ring. Cushlen retainers (17) must be installed with cup toward cushiens (16), with locator between aushiens.
- 4-163. TILT CYLINDERS.

#### 4-164, REMOVAL.

- a. Place forly on floor and roll most forward. Secure most with hoist. Remove hydraulic hoses. Remove pins (38, figure 2-37) on Simplex upright. On Duplex, drive roll pin into cylinder pin (21, figure 2-26). Do not drive roll pin in so fat as to imbed at highin bore.
- 4-165, DISASSEMBLY, (See Ugure 2:33).

- a. Train cylinder by moving sod back and forth,
- δω Unscrew threaded Wester (16).
- e. Pull piston rod (8) and remaining parts out of shull.
   (2).
- d. Remove out (9). Pull remaining components off rad.
- 4-160, SYPAIR. (Year[Ignot 2:00),
- a. Replace att "O" ring seals and packing asternbly (? and 13).
- Popland nylon tidet (8). Roplane back-up ting (15).
- Replace wiper ring (19).
- 4-167, REASSEMBLY, (See figure 2-32),
- a. Reassemble in reverse order of disassembly. Lubshate att "O" rings with clean hydroulic fluid to lacilitare installation. Install all parts from piston end of tod.
- h. If a new cylinder is installed, retract the tilt cylinders. Lossen bolt in rod and (1, figure 1-36), place a punch through the hole (2, figure 1-36) in the rod, and align the new cylinder with the ciner to square up the mast.

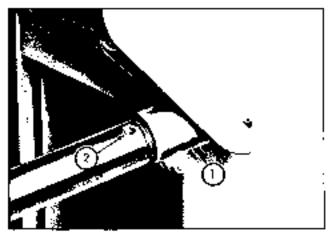


Fig. 1-86. Wilt Cylinder Adjustments

- Post and
- Itisert punich here
- 4-168, LIFT CYLINDER (DUPLEX), See Signre 2-35.
- 4-169, SEMOVAL,
- a. Place forks on ground. Disconneer lift chains and byorautic hose,
- b. Remove anapring and hylinder support (97 and 80, figure 8-36). Lift the cylinder up and out.
- 4-170. (MSASSEMBLY. (See figure 2-00).

- a. Semove retainer (7),  $10^{\circ}$  ring (8), wiper sing (9), and garter spring (10). Pell out intermediate toba (2) and demonstrate,
- E. Bornove retainer (11), "O" ring (12), and wiper ring (12). Remove sheave support as described in paragraph 4-1806.
- c. Astronocisman rings (17 and 20), wasters (18 and 19), and packing (15 and 19). Remove pin (21) and piaton (14).
- Remove threaded waster (00) and wiper ring (30), temove retainer (22), "O" ring (23), and ring (24), and intermediate rubs (4). Remove stay ring (34) and hubring (88).
- Ramove frame 25 through 08, inclusive. Irom pisten retainer (22).
- Remove straight fitting and "fil" ting at base of cylinder, and remove spacer (27), spring (35), and washer (36).
- 4-17), REPAIR,
- Replace all "O" rings, packings, wiper rings, and back-up closs.
- Wash all parts in an approved solvent. Examine for weat, setateles, or blemished. Discard faulty components.
- 4-172. REASYEMBLY. (See figure 2-95). Assemble in reverse order of disassembly.
- 24 Dip "O" times and packing in hydraulic field to facilitate assembly to prevent damaging these parts.
- Install "O" rings, packing, back-up rings to piston (14) and retainer (22) sub-assemblies.
- c. Install life rylinder on must assembly, with locating pin on bettom of cylinder in small field in beaton; plate of other rail assembly. Connect hose to fitting. Install chains and adjust as explained in paragraph 4-181.
- If. Check flood level in tank and replenish as necessary, according to lightjoacher instructions (figure 1-10). State the negline and operate at an illle speed. Pull back on lift nontrol lever to fill the cylinder. Operate cylinder several times, raising and lowering meat. With engine running at idle speed, loosen blood setew (b) on sop of cylinder, and pull bath on lift control lever. Tighten selew when fluid with the buildles runs out of blood bole.
- 4-153, LIVE CYLINDER (51MFLEX), See figure 2-34.
- 4-174, RKMOVAL, (See figure 2-37).
- a. Lower torks to floot. Obsconnect subing from upper and of cylinder.
- h. Disconnect tube from lower and of cylinder. Se-

- move spring, washer, and spacet (15, 16 and 19, figure 2-345).
- c. Serrieve nots from author stud (20) to discounsed chaig.
   Remove cap sersive holding cylinder flange to cross brane on outer tall assembly (1).
- 3. Remove note from piston and guides (27). Lift the cylinder up and out of the guide hole in the base of the outer tail assembly.
- 4-175, DISASSEMBLY, (See figure 0-34).
- a. Remove plunger tetainet (13). Remove \*O\* ring (19), wiper sing (20), and garter spring (21). Full plunger assembly (3) out of shell (2).
- b. Remove roll pin (5), and remove spaces (6), and piston retainer (4). Remove snap ring (24) and remove piston (7) from retainer (4).
- c. terriore "O" ring (12) and tank-up ring (13). Re-move packing assembly (8). Packing assembly (5) empires of V-rings (9); pecking set (40): and adapter (11).
- d. Items 15, 16, and 17 have been removed previously in step 4-174h.
- 4-196, REPAIR,
- Replace entite packing assembly (3). Replace buth "O" dogs (12 and 19). Replace wiper ring (38).
- Examine all parts enrofully for scratches, wear or other damage.
- 4-177, RIASSEMBLY, (See figure 2-34). Scassemble in caverse order of desessembly.
- a. Dip new "O" rings and packing in clean hydraulte Russ to facilitate assembly and to provent demage to those parts.
- b. Assemble piston (7), gazking (8), "O" ring (12), hack-up ring (13), to retainer (4), and secure with snep ring (14).
- c. Install lift cyclinder on mast assembly, with lower and of cytinder in guide hole in base of outer tail assembly. Attack flange and pinten hand assembly (CB, figure 2-87) to tails. Connect upper and lower tobas with spring, washer, and spacer (15, 16, and 17) in place as shown. Install chains and adjust as explained in paragraph 4-182.
- d. Check by craffle fluid level in tank and replenish as necessary, according to labeleation instructions (flighte 1-10). Start the origine and operate at an idle speed. Full back on the lift courted lever to (ill the optinder. Operate the cylinder several times, raising and levering the most assembly.
- 6. Blood the system as follows: Jack up the focks enough to gath access to the lower tabe; crack the flored not on

this tule to allow the air in the cylender to escape sout the engine and move the lift control lever slowly to the rear. When pure fluid (with no bubbles) is being forced our around the not, eighten the not.

4-178. MAST AND RELATED PARTS. The simplex and duplex mast associables are similar. Refer to figure 0-36 or 0-37 for proper mast.

4-179, REMOVAL,

- Remove forks by disengaging levers, and siling forks to notch in lower carriage bar for removal.
- b. Some most assembly with hoist. Disconnect hydraulic times, Remove plus bolding tilt nytinders to mast. Remove clamp block (7, figure 2-28). Remove most assembly from track.
- 4-180, DISABSEMBLY, (See figure 2-36 or 2-37).
- a. Remove pins (20, figure 2-36 or 21, figure 2-37) and rell carriage assembly (13) our bottom of mast assembly. Remove lift cylinder as explained proviously.
- b. Stide inner rall assembly (2) out of outer rail assembly (1) until 2 sets of collegs (6) are exposed. Antate inner tail assembly agward matil content rollers are above outer rail. Support inner tail assembly in raised position to allow removel of four shoes (3) from upper and of outer rail assembly. Silie out times rail assembly. Remove load back test from excrisge.
- c. Someon roller assemblies from namings and inner rall. Remove stap ring (9) and temove roller from pin (10). Remove stap ring (8) and temove bearing (7) from roller (6). Between those roller pin (15) and roller (14).
- d. On duplex mast (figure 0-16), temove snap ring (20) and remove chain theave (25) from sheave support (26). Remove snap rings (20) and remove bearing (28) from sheave (25).
- c. On simplex must (figure 2.437), temove set screw and temove piaton head (20) from cylinder. Orive coll pin into pin (20), just far enough to allow temoval of pin. Do not drive roll pin in so far as to tenhad it in the casting. Bemove sheave (24) and bushing (25).
- 9-181. REFAIR. Examine all parts carefully for west or damage, and diseard faulty components. Examine the bushings in the lift truck frame.
- 4-192. REASSEMBLY. Reassemble in reverse order of disassembly.
- a. Stake screws (11) in two places when tollors are terjustabled. Stake threat roller plus (15) from front side of carriage, at both reads of slot in pin.
- b. Use thirms (5) under most shoes (3) as recuired to obtain minimum electrone between inner and outer rails.
- To adjust lift chains, first move forts to the extreme.

- ends of fork bar and lower forks until lift cylinder is completely collepsoid. Adjusting is to be done with no load on forks. Set the opright in a vertical position.
- d. Turn the chain anchor took into chain anchors as fac as threads will allow (at  $L_{\rm s}$  figure 1.517).
- Fork-to-floor elearance (at 5, figure 1-07) will tange from 6 to 3/4 inch, depending on tite deflection and machine telerances.
- f. Attach tension scale as shown (2, figure 1-8%), apply force, and measure the deflection in the chain. Attach scale at same height to opposite chain, apply same force and measure deflection in chain.
- g. Adjust spherical units (4. Higger 1-87) until deflication is equal on both chairs with equal tension. Keep spherical out and jam out as close to end of author stud as possible and still obtain above adjustments. This will allow lowerst possible position of forks. Tighten jam nums.

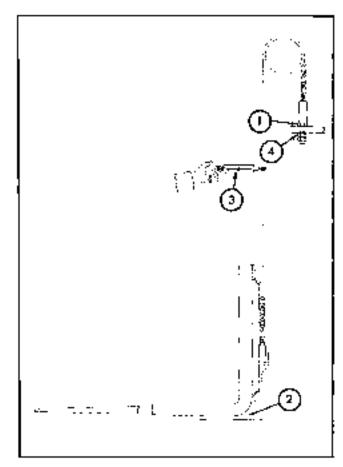


Fig. 1-57. Adjusting Chains

- L. Turn stiki into ancher
- 2. Forksto-Root classance
- Tonsion scale.
- 4. Sylverical ness

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# FOSEWORD.

This paralog consulus a complete list of parts for the MY 40 and MY 60 lift Tracks. To assist in determining the part numbers and descriptions, the parts in this cotaleg are grouped according to their location on the Lift Truck. Reference numbers only are shown in each illustration. These numbers correspond to those in the reference number column in the list of parts which procedes each "exploded view."

TYPICAL PARTS ARE SHOWN, AND MAY NOT ALWAYS BE LIGHTICAL WITH CURRENT PARTS. EXPER TO THE TEXT.

To further assist in locating repair parts, the part numbers are arranged in numerical sequence and indexed on pages  $57 \pm 95$ .

Comparish parts of assemblies are listed following the assembly itself and are identified as being part of the assembly by this netation following the description:

Consists of the following......pare:

OΤ

Part numbers only make up an assembly. Hardware items are not to be included.

Parts such an squadard holts, mits, surches, washers, etc., are indented and listed under the respective individual parts with which they are used.

"Right or Left" is determited by facing the most from the Mobilift seat.

When in need of repair page always order the parts from your Mohtlift dealer or from the branch house neatest you. All parts orders should plainly specify your name, post office address and whether shipment is to yo by parcel post, express or freight.

Before returning repair parts it is necessary to socure written permission from the company authorizing the terrin of such parts. In the remaining of repair parts he size the parkage is tagged with your name and address. Prepay transportation changes.

Claims of shortage or breakage should be made to the transportation company on receipt of goods.

It is the policy of Minneapolis-Moline, lack to improve its products whethever it is possible and practical to do so. We reserve the right to make changes or add improvements in the design or construction of parts at any time without incurring the obligation to install such changes on products previously delivered.



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Tail Lamps	:: 10
tool beings	: 0
Thertrustal	
Throttle Controls	
Tilk Cylinder	
Transmission	
Transfriedin Case	12
Valves	۰
Voltage Regulator 2	8
Water Parap	,,
Whenls, Propr and Rear	, A (12
Marie de Mar	e No
Wirting Hartness	ıU
NUMERICAL INDEX	1.5
	~~

MOBILIFT - MY 40 AND MY 60 LIFT TRUCKS

(rl. No	Pari No	DESCRIPTION	No Pes
		j GRANSCASE	
1	1188500	Creakcase if assembly Includes the following 10 parts:	1
2 .	•	GM 172600 - Pag. expansion, 2-1/2"	ι
-		SM441740 · Plng, pipe, square head, 0/5",	2
		GM 44-1746 - Plug, pape, square kend, 1/2"	ĩ
		GMC41539 · Buxning, reducer, 1/4" to 1/8",	i
3	104 6398	Plug - slortes, */8"	1
4	10A 6557	Cap - bearing, comshaft, front and contention the service and contention to the service and cont	
5	10A 6381	Cap bearing, cantshaft, rezr	1
		GM109846 - Bole, box, boad, 3/8"-16 x 1-3/4"	ō
6	00A 6280	Bushing - oil parapishalt	
7	10A 6376	Ple - dowel, bit pump	
8	*04 0095	Busin ig - governor shaft, 1/2' long	2
9 '	10A6023	Seal - oil, governor shaft, 10/16° O.D.	ı
10	10A10202	Tible - eil, front and depter etankshaft bestring	2 -a
		GM113935 - Serew, ri. near, 1/4"-20 x 1/2"	4
11	10A 5313	Tube - cil, teat crankshaft bearing	1
12	3366 AU	Grandetor - rest oil tube (in crankbase)	2
13		GM114649 - Contractor, 5/107 table	1
14	11/05/09/0	Bearing - croukshift, from and center, standard	5
		GM3409955 - Rott, self fünklag, 1/2"-18 x 2*1/2"	4
Te	10A 6099	Washer - self locking tolt, 17/32" L.D.	4
16	7.106421	Housing with rear crankshaft bearing	ı
		GM119865 - Bolt, Lex. hezd. 1/2" 13 x 1-1/2"	6
17	14A6970	Beautag - erankshaft, tept standard	1
12	10A 5285	Washer - bearing cap bolt	2
10		50A824 - Holt, self locking, 9/36"-14 x 2-1/4"	2 5 9
<sup>20</sup> j	10A6417	Gaskut = rear bearing housing	
21	11A 641 6	Betajger - with cill seal, resr GMU13966 - Screw. td. head. 1/4"-20 x 1/2"	ı
ا م	101.000	GM/13900 - Screw. Id. Read, 1/4"-20 X U2",	6
22	10A 6958	Seal - cil, ruar retainer	:
23 24	10A7418 10A2015	Gasket - oil seal retainer	ı.
25	10A2016 10A7484	Strainer - bil (fluatherscreen)	,
26	11A16004	Cornector - Hear-e-green	1
25	10A10869	Dip stick	,
- '	Ton Cloud	GM170898 - 901t, kew. head, 8/81-16 x 1/21	1 15
25	10A 982B	Srud - side cover, 3/6"-16 x 1-1/16"	2
Ž-	1049850	Stud - side cover, 5/8" x 1-1/8"	4
23	10A9072	Stut - side cover, 3/8" x 1-3/8"	1
90	10A 1349C	Gasher - side cover, 1/32" flack	i
40	00A03491	Skim - side cover, 1000 falck	i
n l	L0A9301	Cover - timing lob.	ī
ļ		GM 118955 - Seiew, rd. head, 1/4"-20 x 1/2",	i
ny j	10A08688	Cover • Irest and of crankcase	ı
:		Cover • Iront and of grankcase	2
no .	00A 16815	Stud - timing pointer, 5/16" x 2-3/4"	ī
34 j	10412351	Scall - oit, for sover	1
0.5	10A6020	Gasket - dil seal cover	ι
	108976	Gasker, Sec engine overhaul	ı
36	1651 749	Adapter - fact pump	1
37	10A9(81	Sigsket - adapter to side dovet	1
38	11A10927	Pipe - excession, alpstick	- 1
		GM116331 - Nut, 10ck, 1/81-27 K±2.T.,	1
39	10/4538	"O" Ring rextension, 3/8" L.D., 1/2" O.D.	ı
	19A 3097	Cover - fact pump adapter	i
	10A 0848	Gasket - covet to adapte:	ì
- 1			-

MOBILIET - MY 40 AND MY 60 LIFT TROOKS

Ref No	Part No.	DESCRIPTION	No. Po
	  - !	CRANKCASE (Clent'd)	
40	104.18004	Strap - pips extension	ı
47	10A 16978	Support - page assembly	ı
42	10A 10461	Dightier	
48	3582935	Pube - breather	1
44	10A 16991	Adapter - breather ticke	lι
4.5	10A 1859C	Bolt - adapter attaching	lι
46		GM:00428 - Gasket, bult and adapter.	l :
	104 16827	*Cover side	
	10A@833	*Gashet - side nover,,	
	10A 6381	*Cover - small, for large side cover	
	10A 9851	*Gasket - small cover assessment as a second cover assessment as a second cover a second cover a second cover as a second cover a second cover as a second c	. 1
	16A 16844	*Support - breather, and hield puripage.	! :
	10A16840	*Gasket - breather support	! :
		"NOYE: Used on MY 65 Lift Treaks.	:

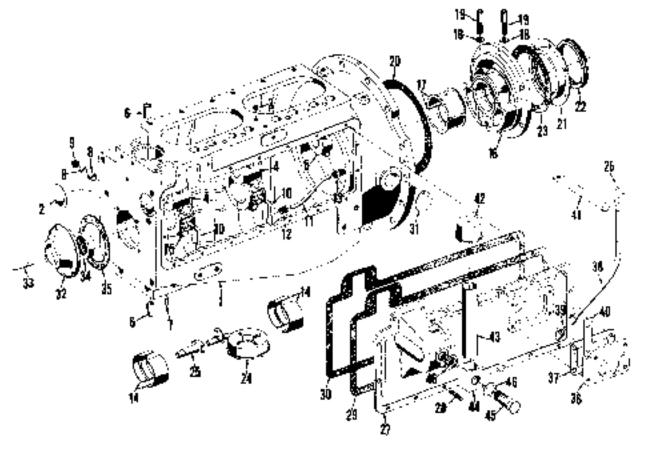


Fig. 253

(et. No	Cart No.	DESCRIPTION	No Pes
		CYLINDER BLOCK, CYLINDRA HEAD, AND SESATHER	
i	(1A1966)	Block • cylinder, with expansion plugs Includes the following part:	2
	i	GN:441794 - Plug, pipe, slotted, 3/4"	2
		GM 108647 - Valve, drain, 7/4"	2
		GM.79588 - Solt, hex., 1/2°*13 x 1-7/8°	6
		GM179996 - Bolt, hex., 1/2"-13 x 3-3/4"	ti
		GM190276 - Kelt, hex., 1/2"-10 x 4-1/4"	4
2	£0A 6903	Plug - expansion, 1-1/4"	4
1	10A 596F	Plug - rear cylinder block and head.	2
4	10A 10007	Tube - between cylinder blocks and heads ,	2
:	10A 3956 10A 7252	Seal = "O" ring, tear plug and denret tobe	6
6 7	I	Gasker - cylinder block to crankesse	2
7	108826 11.4 8551A	Head - cylinder, with valves not assembled	9
•	1.500016	Head - cylinder, with guides and insens  C-M11Fe66 - Plug, pipe, seeket bead, 1/2"	2
11	10A 6400	Plug - expansion/ 1-1/4"	4
12	10A 13667	Gasker - cylinder head to cylinder block	2
	10A10758	Stud = cylinder block and head, 1/2" x 6-3/4"	1
13	10A 5000	Srud - cylinder block and head, 1/2" x 6-7/16"	ő
14	10A 5938	Stud - cylinder block and head, 1/2" x 6-7/18"	5
15	10A5937	Stud - cylinder block and head, 1/2" x 6-7/18"	6
		GM100038 - Nut, hex., 1/2*-20	18
16	10A (0045	Adapter - cylindet head to cover	1
		GM178846 • Bott, kext, 3/8" •16 x 1+3/4"	2
17	10A 8009	Gasker - adapter to cylinder head	1
15	IOA 1693 6	Gover - cylinder kead	I
		GM114503 - Nut. hex., jam, 3/9"-16	4
19	1086425	Washer - copyot, cylinder head cover	4
20	10A E005	Gastret + cylinder head cover	!
2: 22	10A 5946	Stud * cylinder head cover, 3/8" x 5"	4
-6	10A 9026 10A 10804	Spacer - cylinder bead cover, 7/16" x ."  Eye - Ufting, on cylinder head studs	4
	10004	eye - titting, on cy sider head study	'
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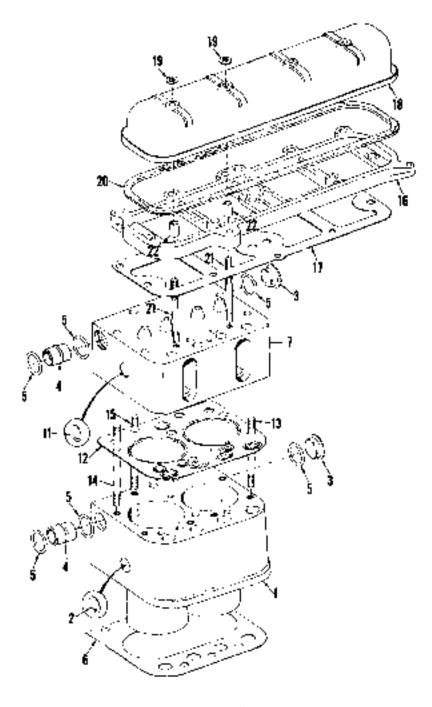
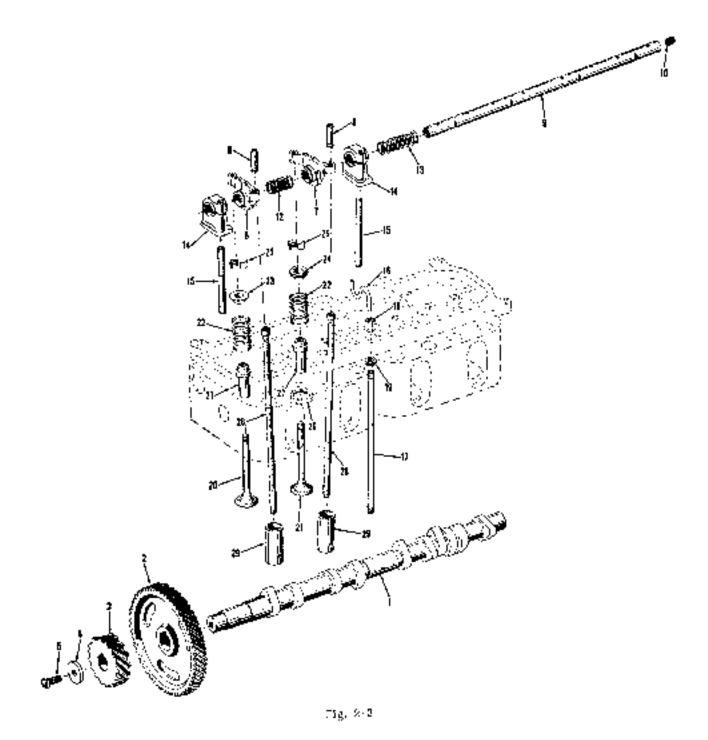


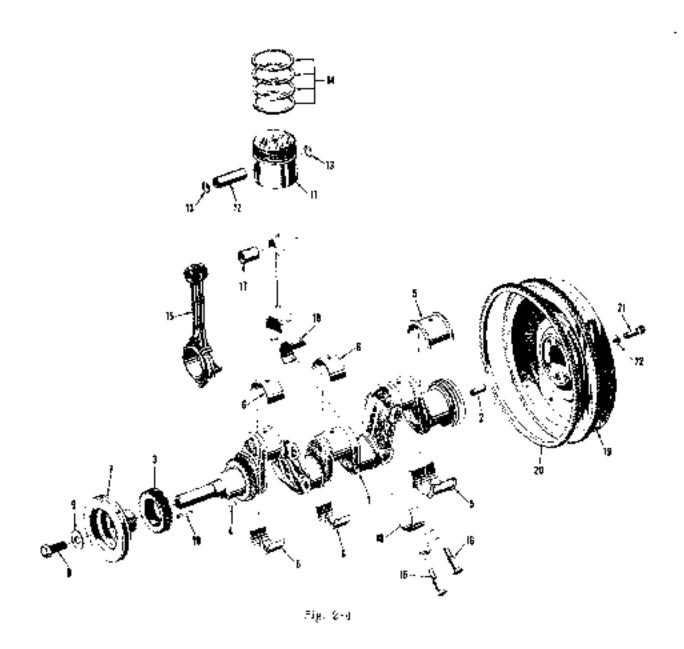
Fig. 2-8

MORIEUM -	- M.Y.	40 AND	MY 60	CIRT	TRUCKS
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66 No	Part No.	DESCRIPTION	No. Pes
		CAMSHAIT, BOCKER AHMS, VALVES,	
		PUSE ROUS AND TAPPETS	
1	1 CA 14043	Gaeshaft	<u>i</u>
2	10A 16945	Gear - filming, 60 teach	1
â	10A 6402	Gear - oil pump drive, 16 teath	į. V
4	10/4/00/62	Washer = gear retainer 3/87 +16 x 1"	1
ñ	10A 6363	Arm - rooker, from imake and roar exhaust	4
7	104,6351	April - rocket, front exhaust and rear intake	4
ş i	10A19E79	Screw * adjusting rooter arms.  GML14484 - Nut, hex. Jam. 3/8"-24	я 8
ē.	1065973	Shait - rooker arms, with rubber plugs	Î
		GM108385 • Pia, cutter, 1/6" x 1"	2
10	10A 7007	Plug - mbber, 1/27 dia.	2
12	10A7200	Spring - Louker arms, 1-0/10" Long	2
13	10A 7205 10A 5916	Spring * rocker arms, 2-9/16" long	1
15	104 591 6 104 5646	Bracket - rocket arms ====================================	4
``	21,000	GM102605 - Nor. Nex., 3/6*-16	4
16	10A720D	GM114503 - Nut, hex., jam, 9/8"-16	4
10	10A 6010	Tube - oit racker from	) 1
iė į	10,40,000	Pipe - supply, cit tube	1
19	10/46016	Soat = od supply pipe	1
	10A10040	Cup - seal retailor	i
20	10A 6429	Valve - intake	4
91	108 6399	Valve - exhaust	4
22	10A 643S	Spring - valve	
23	10A 9409	Sout - valve shring	4
24	1983940	Rotocap - exhaust valve ++	4
en	10A 344C	Luck - valve spring seat	16
28	.08/1944	I recit - oxhaust walve ++, ++, +++++++++++++++++++++++++++++	4
WY	10A 3993	Guide • vaive	В
28 20	10A 6456 10A 5966	Prost Pod	•
<b>.</b>	108972	Tappet (valve litter)	Ē.
	010.2	Casher Set - valve grinding everban)	'
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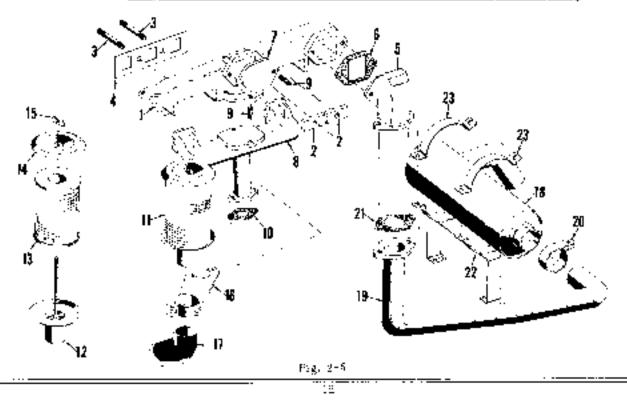


MOBILIET - MY 40 AND MY COLLET TRUCKS					
ei No	Part No. DESCRIPTION				
	, ,				
		CRANKSHAFT, CONNECTING RODS, PISTONS,			
!		RINGS AND FLYWHEEL			
ι.	105GD32	Chanicshaft - with goar and dowel pins	1		
2	10/45912	Pla - coyol			
2	:0Al0353	Gear * tirring, 26 testh.	!		
4 5	11A6870	GM 106751 - Key, Woodruff, No. 9	1		
3	UA687)	Rearing - rear, standard	;		
5	11A G872	Rearing - rear, .005 undersize	l i		
5	11A6 <b>57</b> 3	Bearing - roar, 1020 undersize 1,11,11,11,11,11,11,11,11,11,11,11,11,1	1		
5	LLA 6974	Restung - rear, . 046 undersize	!		
6 3	11A5980 11A5981	Bearing - front and center, mandard	: ? 2		
ß	:10.5982	Bearing - front and center, 1002a undersize	2		
ä	11A 5983	Bearing - from and center, .080 midersize	. 2		
G	∷∆5984	Beating - front and conrest . 040 undersize	j 2		
7	30A36684	Pulley - landrive	!		
8 9		GM271560 - Bolt, bex., 5/8"-11 x 1-8/4"	1		
:0	104.6423	Key - leck árive polley, 1/4" x 1/4" x 1-1/2"	Ιί		
:1	1184860	Piston - with pin and totakner, standate	-1		
11	11A17475	Piston • with pin and retainer, 1020 O.S.	4		
1.	11/-17476	Piston - with pin and totainer, .040 D.S.	-1		
13 12	10A4861 10A+7477	Pin - piston, standard	4		
IS	10A4959	Retainer - pisten pin			
14	102993	Rings - set for 2 pistons, standard	2		
14	108393	Rings - set for 2 pistons, 1926 eversize	. 2		
14 15	10(6)94	Rings - set for 2 pistons, .040 eversize	. ?		
16 16	11B (6869 10A (8726	And - connecting, with bearing and highing	. 4 . 8		
î7	1044865	Rushing - pistura pia, 1' 1.D., 1-7/16" long	] [		
18	103420	Bearing - connecting rod, standard	. 4		
18	109424	Boaring - connecting rod, 1095 Endorsize			
18 18	108423	Assaring - connecting rod, 1995 undersize  Bearing - connecting rod, 1996 undersize	-		
16	108423	Bearing - nonnecting rod, 1640 undersize			
19	11/-15555	Flywheel - with ring goar			
20	10A 75S7	Geat * Starting ring	i 1		
21 32	1/14 54102				
38	1/0A 5285	Washer - flywheel bolt	4 1		
		•			
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MORILIET	- MY	3.71	A KITO	34.7	AD LINE	TRADVERS
MORGILLE	- MI	4.31	A N D	241 f	50 6151	LIBERTANA

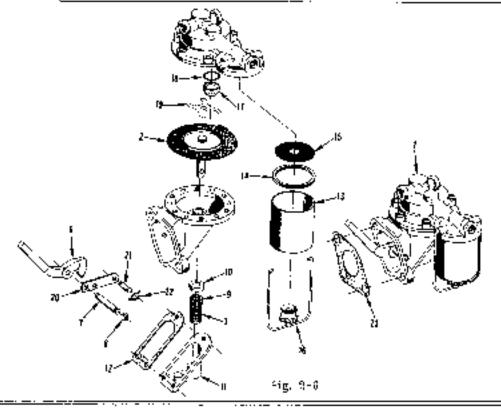
Ren So	Part No.	DESCRIPTION	No Pos
		GAS MANIFOLD, AIR CLEANER AND HUPPLER	, I
1	10A 7690	Manifold - oxhoust	,
2	10A 9227	Claug - manifold	
Я	1081447	Shed = manifold claims 1	
1	10A 5929	Sasket - exhaust manifold	
2	i 3343994	Contractor - exhaust man/fold to muffler	1
6	35A0238	Gasket - exhaust connector and cover all accounts and cover all accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and accounts and account accounts and account accounts and accounts and account accounts and account accounts and account accounts and account account accounts and account account accounts and account account account accounts and account accounts and account account account accounts and account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account ac	
7	1047981	Cover - exhaust manifold	1
:	10A7720	Manifold - Intake	1
9	10A 9047	Stud - invalie to exhaust manifold	
10	1047913	Gasket - jurake manifold to nurburetur	
11	10A 16904	Air-Cleaner Consists of the Juliowing S parts	
12	1001352	3⊴e - assembly	1
13	10P (858	Füter	
14	1001874	Covet	-
15		GM120240 - Nut, Wing, 10-32 N.F.	1
16	36A 1434	Support - air cleaner	
17	30A 1430	Hase - eleanet to carbotetor GM103482 • Classey, bose, 2•1/4"	
18	36A £400	Moffler - My 40	
	3572898	Mulflet - My 60	1
19	367.743	Pipe - exhaust - My 40	1
	\$6A2397	Pipe = exhaust, My 60 GM179399 = 660, Next, J/S"-16 x 17,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 2
20		394 785 - Clamp, pige to mefflet	
21	i	GMI 91506 r Gusket, exhaust pige	
WZ	367/4301	Clamp - assembly, mulffer, on frame, My 40 GM180124 - Bolt, hex., 3/87-16 x 1-1/4",	. 1
	35A2398	Clamp - muliter, on frame, My 60	
2.3	25A2230	Clones - half, for muffler	



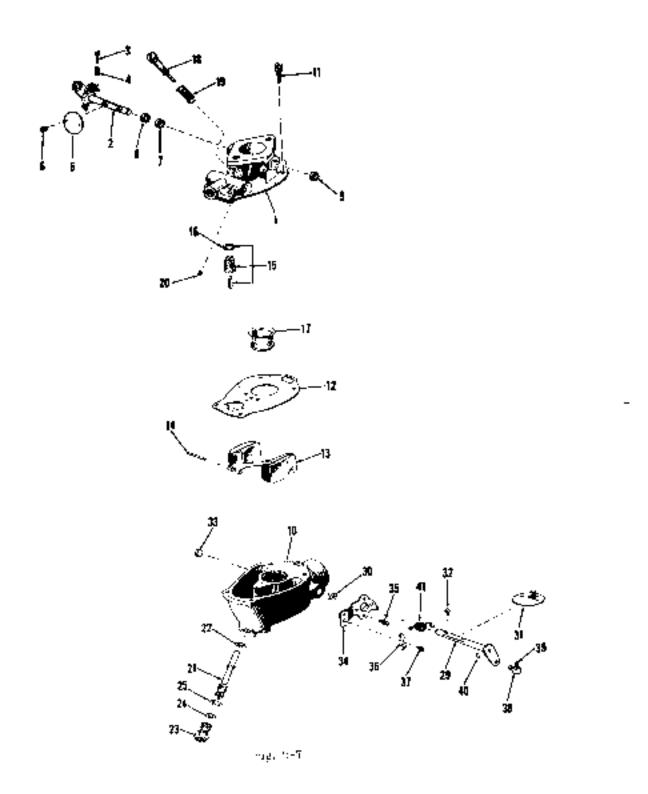
# https://forklift-manuals.jimdofree.com

МОЮЦИКТ<u>і - МҮ</u> 40 АМР <u>МҮ 69 ЫРТ ТЕ</u>ДСКЯ

Rej. No.	Part No	DESCRIPTION	No Pes
		FIFTEL PUMP	
1	15A 16838	Princy - final, assembly	1
9	10P1875	Displiragm and pull rod	i
S	10/1888	Spring - diaphragm	ī .
6	10P187G	Arm - rocker	i
7	:08188 <sub>0</sub>	Pin - rocker acm	ī
8	:0F1887	Retainer is rooker arms plit 444, 444, 444, 444	2
9	10P1888	Spring - rocker arm	1
1.7	1061876	Cap - cocker arm spring	P
11	10P1880	Caver - hotrain GM100650 - Serew - fill. hd. No. 19-32 x 3/5"	1   3
12	1081881	Gasher - berrem gover	l ı
18	1001877	Bowl - fuel, metal presentations and an arrangement of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of the fuel of	, ι
14	15F23	Gásker - firel, hawl	1
15	15P24	Serent	1
16	10P34Y	Bail - Assembly, fuel bowl ,	1
17	10P1889	Valve and cage	2
18	1001882	Gasket - valve and cage in the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the	2
19	10P1888	Retainer - valve and dage	1
20	1001883	Link	2
21	10P1884	Pin - jink	2
22	1001879	Clap - Bak pin	÷
23	10A 6849	Gasket = find prints to adapter CM19997 = Rolt, find prints to adapter, 5/16"-18 x 7/8" CM103020 = Washer, Jock, 5/16"	1 2 2
	11416912	1µac - feel pump to enthereter  GM140381 • Net, 5/16" flared tabe  GM14242" - Net, 5/16" tabe, inverted flare  30A3481 • Elliow, street, 1/8", 90°  GM137422 - slbow, 5/16" flated tabe, 00°	[   1   [

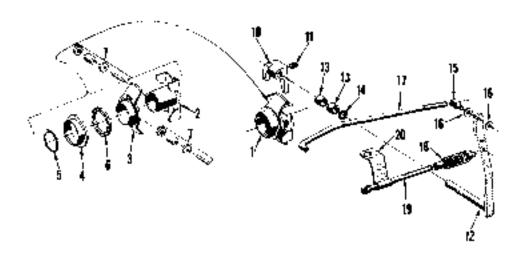


Gr. No	Part No	DESCRIPTION	No Per
		GARBII RATOR	
		GARBI. KETOR	
	TOA 16902	Carbuseter - (Schobler Model TSX 825)	1
		GM218365 - Balt, kex., 5/16"-18 x 1"	2
1	10PL892	Indy - throttle, upper half	J
3	10F1803	"Shaft - ritroptic, assembly GM100714 - Screw, fillister head, No. 8-32 x 3/4"	. ! 1
4	109750	Spring - abstral a lover sarah	
•	1001788	Spring - throrde lever serew  Spring - Wrottle lever stop	' !
8	10PT46	Disc - thextsc	. 1
Ű	101.141	"GM193256 - Screw. pan 3d., No. 6-32 x 1/4"	2
7	109765	*Packing - Throttle shaft	. 1
9	100770	Retainer - throule shaft packing	i
ģ	100771	Cup - thrortle shaft	i
10	100/44	Bowl - fuel, lower half	ĵ
11		GM100675 - Screw, filtister head, No. 12-24 x 3/47	4
		GM114581 - Valve, drain	i
12	100749	+Gastret - fuel bowl to hody ************************************	2
13	180/1801	Float	1
14	10P759	"Shaft - float jever	. 1
	1012776	Bracket - float lever	. 2
:3	102775	"Valve - seat and gasket (matched)	. 1
: 6	146743	*+Crasket - seat	•
.7	108486	Venturi	. 2
IB	189760	*Needle - 10te adjusting	, 1
1.3	10P751	*Spring - idle adjusting needle	3
k0	10P769	*Jet - Id:e	
21	10P767	Nozzle - main	. :
22 22	10P74E	*+Gasket - nonzie	. 1
22	10P762	Adjustment - main, assembly	
14	109761	Needle - main adjustment	. 1
2.0	1007778	Retainer - main adjustment medle packing	• •
26	10P704	Packing - retainer	. :
7	109.69	Gasket - main adjustment assumbly	-
	: 10P1R91	Plug - power jet ratainer	
35	10P769	Tet - power	1
20	1001799	Shaft - rhoke, with lever	2
30	102753	*Backing - choke draft	1
51	: 0£1764	Disc - choke	:
35	l	*GM 93256 - Screw, pan bd., No. 6-82 x 1/47	2
33	10=772	*Gup = ettoke skaft	
	1071800	Bracket • chuku assembly	1
14 35	1091747	Bracker - chake	
10 38		GM131353 - Sciew, fillister head, No. 8-52 x 3/8"	1
งก 37	105758	Clip - slicke bracker	2
97 <b>1</b> 8	105755	Spring I - choice	1
10 39	107 100	Swive1 - chake	:
30 40	105774	Pin - choire serivel	ž
41	109382	*Spring - choke return	1
	1001833	Repair Kit - carburetur	
		*NOTE: Repair Kit Includes the above items identified with an asterish (*)	-
	1001880	+Gasket Set - carbaretor	3



			A				T 15 F L 2 1 12 1	
MATERIAL	- 54 1	21	0 11 15	VI 1	15 13	1.11	- 1 IC ! ! L . K . ?	

Ref. No	Part No	DESCRIPTION			
		GOVERNOR			
1	10A 14877	Covernor • assocrably and a service of the following 6 parts:			
2	1CP1633	Carrier - assembly	1		
3	10P1090	Riser and Sloeve - assembly	ı		
1	10/1637	Race - bearing	1		
ħ.	1091041	king - rerainer, bearing case	1		
G	1001.640	Retainer - With steel balls ***********************************	1		
7	1071038	Action = weight, assembly	2		
16	10/46018	Fork - movernes control accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and accessors and access	ı		
11	10A10444	Screw = set, governor lors, 5/16"-18 x 1/2"	l		
ig	18A1044S	Shaft - with lever, governor fork	1		
13	10A 9025	Bushing, lever shaft, 1/2" 1,D.	2		
14	10A 0028	Scal - ml, loyer shaft, 1/2" [.D.	1		
15	NA 12 196	Pin = lever shaft	1		
16		GM108940 - Washe: - plain, 5/15"	2		
17	10A 15485	Red - control, lever shaft pin to carbuterns	· 1		
18	10A 14873	Spring - with plunger assembly	. 1		
19	20A10343	Rod - adjusting, spring to introttle tod, 1/4" x o-7/8"	1		
20	10A 16697	Guide - adjusting too	1		

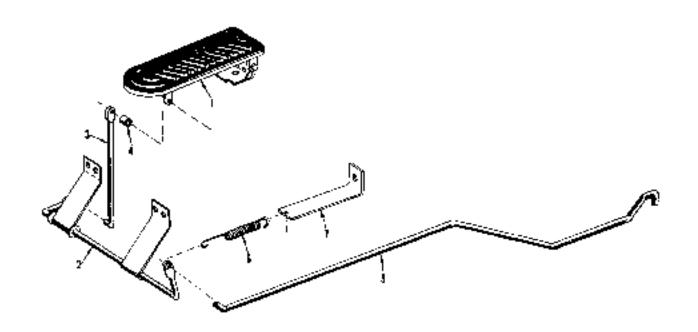


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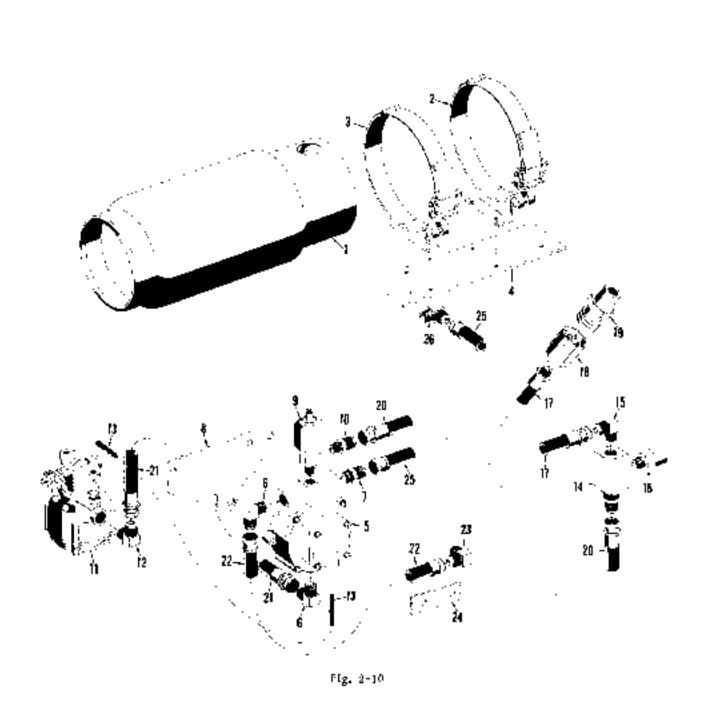
# https://forklift-manuals.jimdofree.com

MORIGINE - MY 40 AND 60 LIFE TRUCKS

Kaf No	Pari No	DESCRIPTION	
		THEOTILE CONTROLS	
1	:   10%19601 	Pedal - foot accelerator GM180077 - Bolt, hext. 5/167-28 x 9/47 GM128376 - Net, hox., 15/167-18	] - i
2	36A-5E3	Shaft cross, with supports  GM380399 - Bolt, 8ex., 1/8"-39 x 5/4"  GM120375 - Not, la x., 1/4"-20  GM120393 - Washer, plaid, 17/32"  GM121222 - Pin, cotter, 1/16" x 3/4"	1 4 4 2
3	36Au00	Link - pedal to cross shaft, h-1/2" long	ī
4	103 10349	Spacer - pedal link, 1/4" O.D. x 9/16"	
3	33AR2T6	Rod = crost shaft to you, rod. 1/4" x 31-3/8", MY 40	
	36A 1990	Rud - cross shalf to gov. rad., 5/66" x 10-1/8", MN (C	1
ľ	I0A307	Spring - the tile rod	
7	358 1575	Clip - spring anchor, I. shape. 57 long	I

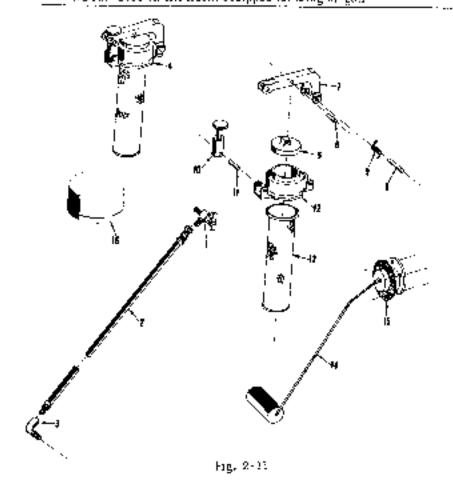


er No	Part No.	MOBILIAT - MY 40 AND MY 60 LIFT TRUCKS	No. Pcs
1 .50	Part Inc.		
		LE GAS ECCIPMENT	
1	g);)8£	Tank · fuel, with flutings	1
2	357516	Strap - mounting, fuel tank, right hand,	
3	35P508	Strap - mounting, fuel tank, left hand	1
4	35P518	Place - support, including straps, MY 40	1
	35P541	Plate - support, Mounting straps, MY 60	
5	357506	Vaportzer	
6	352509	£lbaw - vanarizer to hase	1 2
7	33P510	Connector - vaportzer to bose	1
a	35P511	Place - support vaporizer	
		GM179797 - Bolt, 1/4"-00 x /*	2
		GM109084 • Nat, hext, 1/47-20	ē
9	35P507	Soleroté	ı ï
10		GM144815 - Connector, solenoid to hose	ĺi
13	\$5 <b>P</b> \$19	Carbureter	ī
12		GM144355 - Elbaw, carhotetor to bose	i
13	33P51D	Hose • vacuum, 5/30" I.D. x 20"	i
14	35P5)4	Pilger	, i
13		GM144955 - Elbow, filter to hate	
18	35PS15	Valve • relief, filter	1
17	\$5F520	Hose - filter to tank coupling	i
36	357519	Coupling - hose to tank, female,	
19	387517	Coupling - lose to tank, reals	,
20	35F5V7	Hese - filter to saleaoid	í
21	357521	Hose - vaporizer to cathuretor	1 1
22	357523	Hose - vaporizer to water pump	,
0.3	352509	Ethore - base, to water pump	
24	357557	Bracket - water mump hose, 1" x 3"	1
20	35P524	Hase - yaperizer to hybrider block	
2E	350329	Elbew - hose, lit cylinder block	†
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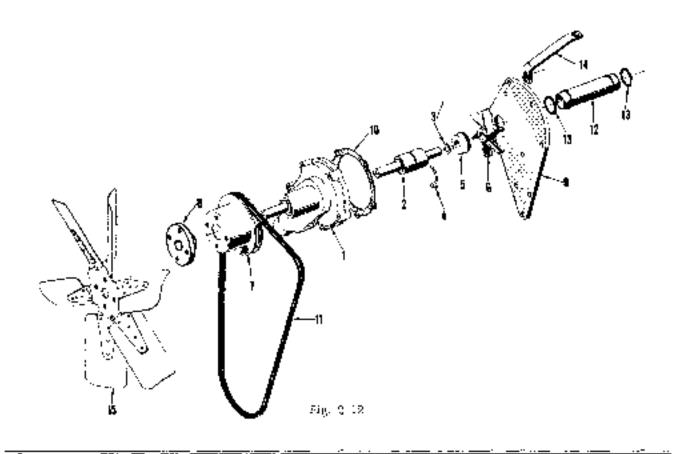
MORGETFI	<ul> <li>E2.Y</li> </ul>	4.6	4 M D	MEN	BO 1	187	TOTALES	
MICHELLIFI	- IV. 3	41 (1)	- i- L1	- AH - E	יים פ	L I - I	_ L	

Ref No	Part No.	DESCRIPTION	No. Pes.
		FORE TANK, LINES AND PITTINGS	
		Eye) manti - kee math frame on page	
1		GM1C3881 - Pleg, pipe, sq. hd., 5/47	1
2	: 2641456	Slose - tank to pump, ST-1/2" long	1 :
3	100-1420	50A2481 - Elbow, stragt, 1/8", 908	1 :
4	357 178	FILlot - assembly	
		Includes the following 6 parts:	·
5	36F55	Con = filler	l ı
6	35 <b>F46</b> 8	Pin - cap, 5/85" x 23/32"	1
7	35P56	AIT - C80	ı
3	33 <b>P</b> 4E7	P2) arm, 3/16" x 1/3/8"	l ı
ā	35F57	Spring - arm	l
10	33058	Cotedy - arm	l i
11	35F 169	Pin - carch, 3/16" x 1-5/32"	l ī
1.9	35250	flange - day	1
19	33P60	Screen - assembly	li
14	35A 2059	Unit - sending, fuel gauge, MY 40	li
	3623065	Unit - sending, fuel garner, MY 60	! i
		GM113902 - Secow, round head, No. 10-32 x 7/167	}
10	10.4 9815	Gasket - souding upit	
16		*GA: 176435 - Cup, Idel table, in frame, 2" dia	
		"NOTE: Used on lift trucks equipped for using ). Pleas,	•



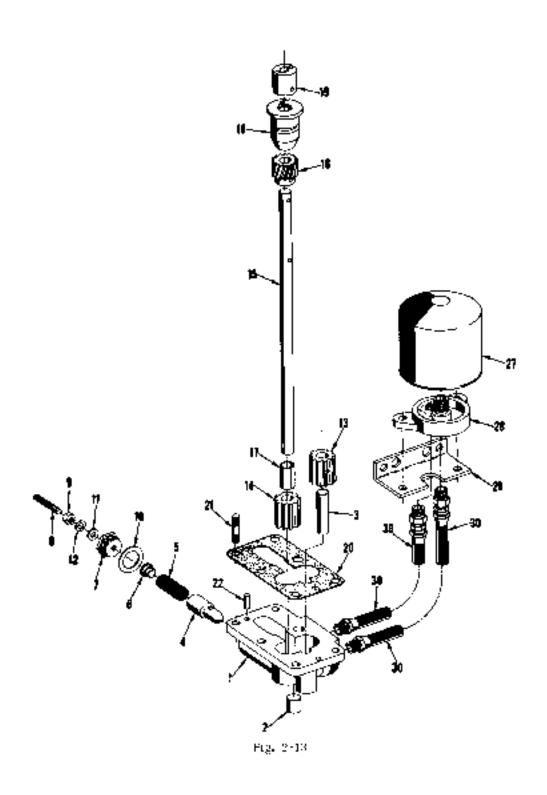
4Ωb][16 r •	MY 40	AND MY	60 L1 1 I	TRUCKS
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Cef. No	Pari No	DESCRIPTION	No. Pes
		WATER POMP AND TAN	
-	104396	Pump - water, assumbly experienced and includes the following 5 parts:  GMT40162 - Plug, pipe, socket bead, 3/81 experienced.	1
2	10// 3916	Spair - with bearings	. ī
2 3	10A 7200	Ring - oil ellneer, E/E" L.D.	:
4	: 0A 7193	Lock - spring, shaft to booking	
3	26A3046	Scal - water purp	ا ا
6	10A 6006	fuspellur	l i
ř	11A7223	Pulley - fan and water purp	-
В	10A 7894	18ub - fa.)	l i
Ü	:047896	Cover - water pump, also appear	1
-		GM179838 - Bolt, hext, 3/8"-18 x i",	3
		GM179824 - Brig. hext., 5/26"-16 x 3/4"	
		GM179825 - Bolt, hex., 5/16"-18 x 3-7/4"	
		GM (79921 - Boln, hox., 5/16"+18 x 1-2/8"	
		GM102634 - Nat, nex., 5/16"8	. 9
10	10A 7201	Gasket - cover to prince housing	
13	104.16423	hols - warer pump and lau	
12	31A7890	Tabe - water memp to cylinder block	i
13	10A 5956	Seal - 10" rung, water pump tobe, 1-3/57 LD.	2
14	30A 1290E	Eracti - Water pinter support	
	I	GM 179820 - Katr, dax., 5/16" -18 x 1-1/4"	1 3
		GM100634 • Nut. hex., 5/16"-16,	2
		GM193340 - Washer - plain, 11/32" (JD),	
15	10A16123	Blade - fan	1
	Ļ	GM179820 - Belt, Bex., 5/167-(8 x 1-1/4"	4

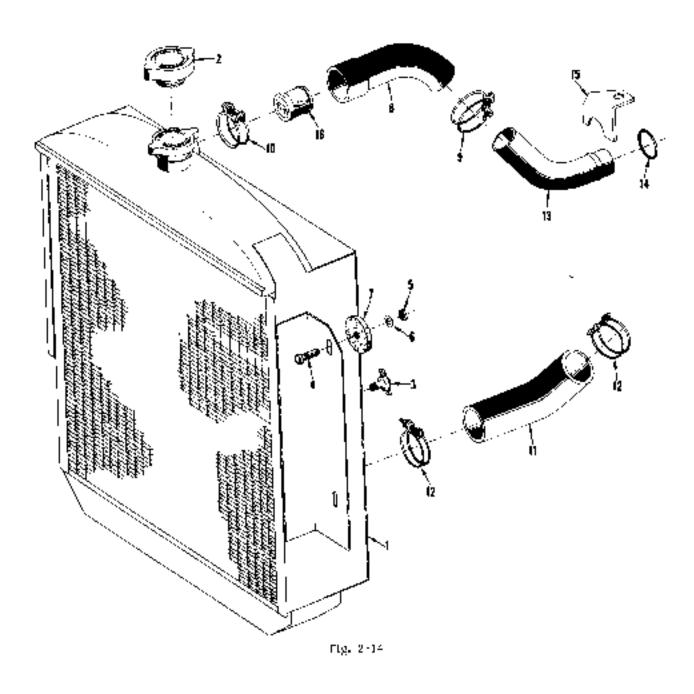


MORILIPT -	МΥ	40	AND	MΥ	60	LEST	TRUCKS
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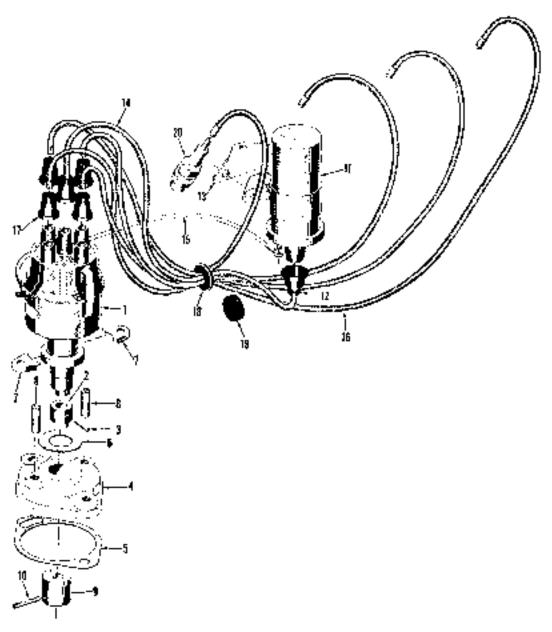
1   10611839	No Pes
1	!
10A 836	
10A 8406	
10A 8406	1
10A 2802	l
10A 1178	1
6 10A1172 Retainer - check valve spring Cover - check valve 6 GM103396 - Screw ret, check valve cover, \( \lambda \) 16 - 19 x 2" 50A1041 - Nuc, sex screw, \( \lambda \) 16" - 19 x 2" 10 CM103397 Gastet - lean, set screw 11 10A6356 Gasket - lean, set screw 12 10A3397 Winsher - coppet, set screw 13 10A6400 Gran - drive GM103305 - Key, drive gear, Wuodriaff No. \( \lambda \) 14 10A6400 Gran - drive GM103305 - Key, drive gear, Wuodriaff No. \( \lambda \) 15 10A6415 Shaft - drive uil pump, \( \lambda \) /8" x 15-3/4" 16 10A6414 Pinton - drive shaft 17 10A6380 Bushing - drive shaft 18 10A6413 Bushing - drive shaft 19 10A6413 Bushing - drive shaft 19 10A6412 Coupling - drive shaft in distributor 19 CM102305 - Nuc, hex., \( \lambda \) /8" - 16 x 1-1/2" 10 Gasket - body to crankcase 21 10A6397 Gasket - body to crankcase, \( \lambda \) /8" - 18 x 1-9/10" 24 CM102635 - Nuc, hex., \( \lambda \) /8" - 16 25 CM179939 - Bolt, \( \lambda \) /8" - 16 x 1"  26 OM179939 - Bolt, \( \lambda \) /8" - 16 x 1"  27 OM14373 Bush - oil litter 28 OM179939 - Bolt, \( \lambda \) /8" - 16 x 1"  28 OM179939 - Bolt, \( \lambda \) /8" - 16 x 1-1/4"  GM179841 - Eolt, hex., \( \lambda \) /2" - 10 x 1-1/4"  GM179841 - Eolt, hex., \( \lambda \) /2" - 10 x 1-1/4"  GM179841 - Eolt, hex., \( \lambda \) /3" - 16 x 1-1/4"  GM179845 - Nuc, hex., \( \lambda \) /3" - 16 x 1-1/4"  GM179845 - Nuc, hex., \( \lambda \) /3" - 16 x 1-1/4"	····· 1
Cover - Check valve   GM19396   Street rat, check valve cover, 5/10" -19 x 2"	1 1
GM108396   Street riset, check value cover, 5/16" -19 x 2", 50A1041   Nut. set screet, 5/16" -19 x 2", 6M104429 - Gasket, copper, 2"   GM1043975   Gasket - tend, set screet   Gasket - tend, set screet   GM183905   Gear - idlet   GM183905   Key, drive gear, Woodraff Nu, 5   GM183905   Key, drive shaft   Machine   GM182305   Key, drive gear, Woodraff Nu, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Nut, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182305   Key, 5   GM182	1
SOA 1041 - Nut., sex serew, \$/16"-18	i i
CM120429 - Gasket, copper, 1"	<b></b> 1
10	1
10A 6400   Gear - idler   Gear - i	۱ ۱
10	?
GM183905 - Key, drive gear, Woodroff No. 5 10A 6314	
10	1 2
16A 6314	ř
10A 6380	l 1
10A 6386	i li
10AE413   Bushing = grooved, above pinion   GM102735 - Setow, set, 3/9" -26 x 1-1/2"   GM102835 - Nut, hex., 3/6" -16   GM102835 - Nut, hex., 3/6" -16   Gupting = drive shaft to distributor   S0A2842 - Pin, roll, 3/16" x 1-1/4"   Gasker - body to crankease   GM102035 - Net, hex., 3/8" -18 x 1-9/10"   GM102035 - Net, hex., 3/6" -16   GM102035 - Net, hex., 3/6" -16   GM102035 - Bolt, 3/8" -16 x 1"   GM102035 - Bolt, hex., 1/2" -10 x 1-1/4"   GM102035 - Bolt, hex., 1/2" -10 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16 x 1-1/4"   GM102035 - Not, hex., 3/8" -16	2
GM102635 - Ngt, Sex., 3/6"-16 Coupling - drive shaft to distributor 50A2843 - Pin, roll, 3/16" x 1-1/4" 20	
19 10A6412 Coupling - drive shaft to distributor 50A2843 - Pin, roll, 3/18" x 1-1/4" 20 10A6397 Gasket - body to etankease 21 10A6431 Sted - body to etankease, 3/9"-18 x 1-9/10" CM102635 - Net, hex., 3/8"-16 22 10A6378 Pin - downel, body to crackease GM179939 - Bolt, 3/8"-16 x 1"  OIL FILTER  27 10A14373 Piter - bil, spin-on 28 10A15897 Base - oil litter 29 10A16909 Support - filter base GM.79683 - Bolt, hex., 1/2"-10 x 1-1/4" GM179841 - Bolt, hex., head, 3/8"-16 x 1-1/4" GM179841 - Bolt, hex., head, 3/8"-16	1
50A2843 - Pin, roll, 3/18" x 1-1/4"  Gasket - body to crankease  Sted - body to crankease  Sted - body to crankease  GM102635 - Net, hex., 3/8"-18 x 1-9/10"  GM102635 - Net, hex., 3/8"-16  Pin - dowel, body to crankease  GM179939 - Bolt, 3/8"-16 x 1"  OIL FILTER  27  J0A14373  Base - oil litter  Base - oil litter  Support - filter base  GM17983 - Bolt, hex., 1/2"-10 x 1-1/4"  GM179841 - Bolt, hex., head, 3/8"-16 x 1-1/4"  GM102685 - Not, hex., 3/8"-16	•-••• L
20 10AC387   Gasket - body to crankease   3/8"-18 x 1-9/10"   GM102635 - Net, hex., 3/8"-16   Ptc - dowel, body to crankease   GM179939 - Bolt, 3/8"-16 x 1"   Old Filtree   GM179939 - Bolt, spin-on   GM179939 - Bolt, spin-on   GM179939 - Bolt, hex., 1/2"-10 x 1-1/4"   GM179939 - Bolt, hex., 1/2"-10 x 1-1/4"   GM179941 - Bolt, hex., head, 3/8"-16 x 1-1/4"   GM192685 - Not, hex., 3/8"-16	1
22 10/16373 Pite = 60wel, body to cracknase	1
22 10/16373 Pite = 60wel, body to cracknase	
27	4
OIL FILTER  27	
27	1
28 10A15E97 Base - off litter 29 10A16909 Support - filter base  GM.79883 - Bolt, hex., 1/2"-10 x 1-1/4"  GM173841 - Bolt, hex., head, 2/3"-16 x 1-1/4"  GM162685 - Not, hex., 3/8"-16	
28 10A15E97 Base - off litter 29 10A16909 Support - filter base  GM.79883 - Bolt, hex., 1/2"-10 x 1-1/4"  GM173841 - Bolt, hex., head, 2/3"-16 x 1-1/4"  GM162685 - Not, hex., 3/8"-16	,
29 Support - filter base	i
GM170841 = Bott, hox. head, 8/8*-16 x 1-1/4* GM102685 = Not, hex., 3/8*-16	1
GM102685 - Nm, hex., 3/8*-16	3
30 10A17879 Sold the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the compile of the	2
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(, So	l Part No	DESCRIPTION	No Pes
	į	RADIATOR	
I	35A2931	Radiator, with pressure cap, MY 40 ,	,
	35A810	Radiator, with pressure cap. MY 60	1
	35P89	Cap - prossure, Poifox No. G-13674	:
		GM163647 - Valve, drain, 1/4"	
		GM188126 - Bolt, Fex., 3/8"-16 x 1-1/2"	4
		GM436004 • Nut, Jock, 3/8*-16,,,,	4
	l	GM120394 - Washer, plain, 3/8",	6
	10A 15177	Washer = fabrooks, 7/16' L.D., 27 O.D.	4
		HOSES - THERMOSTATI	
	10/110397	Hose - ; pilor	1
		CM105499 - Clamp, hose, 1-7/5"	:
		GM106481 - Clamp, hose, 2-1/8*	1
	10A 10639	Flose - outlet, MY 40	i
	55A 1947	Hose - outlet, MY 60	1
		GM193469 - Clamp, hose, 2*	2
	98301 A01	Tube - metal, cylineed to bose, MY 40	
	95/12742	Tube = metal, cylibrad to nose, MY 60	:
	10A2956	Seal - "O" ding, Imetal tube, 1-3/8" L.D.	ı
	.0A )0329	Clamp - tube retainer, on cyl., head bolt	1
	107/16460	Thormostar - 1800, Dole Valve Co. No. 5/V11-180	. :
			<u> </u>
			ļ 
i			



ri, No	Part No	DESCRIPTION	No. Pcs.
	ı	DISTRIBUTOR, IGNETION COIL, CABLES	
		AND SPARK PLUGS	
	]		
1	104 16616	* Distributor - with coupling (Delco-Remy No. 1) (2606)	1
2	10P635 10P636	Coupling - distributor shaft	
<b>VI</b>	104.000	Pin - coupling to shaft  Note: Order eplacement parts for Disaributor direct from Delen-samy	1
		Division or Daited Motor System.	
4	10A 6465	Support - distributot	1
		Support - distributor	2
3	10A6427	Gasket - support to crankcase	
6 1	10A <b>6</b> 398 10A 6393	Gasket - htacket to distributer	1
'	114.6383	Glamp = distributor hold down 1	2
9	13A6-112	Coupling - Gil pemp shaft to distributor coupling	1
10		50A2647 • Pin, toli, 3/16° x 1-1/4°	ī
11	(CA16817	Coll - igagnos, Selco-Remy No. 1118668	1
15		GM43:509 - Nipple, mbber, 8/4" [.D	)
		GM179818 - Balt, hex., 5/16*-18 x 3/4"	2
		GM103340 - Washer, plain, 11/82" ,,	2 2
13	85A2108	Support - Ignition co()	1
		Support - Ignition coti GM179816 - Bott, bex., 5/15"-18 x 3/4",,,	j
14	10A 12342	Cable - high tension, east to distributer, 19' long	1
		GM#31608 - Nipple, rubber, 9/16" 1, D.	1
15   រទី	10A 6505 LIB3	Cable - low tersion, 14" long	1
17	L 111.1	Cables - ignition set, with nipples	ā
16	2099198	Clip - with grommer, 5/8"	í
19		GM220013 - Grennet, No. 9	1
	10235	Spark Plug - No. 9 comm. or D-16	4
		!	
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		j	
		1	



F1g. 2•18

tes, No	Part No.	DESCRIPTION	Na. Pcs
(5, AD	Fatt No.	Op. Child From	Na. re
		GENERATOR, VOLTAGE RYGULATOR, STARTING MOTOR, HORN AND LAMPS	
		STARTIAN MOLEN, BORN AND LAMPS	
ı	10A15922	*Generator* (De)on-Rerry No. (190806)	
2	107/16297	Pulley - generator, with fan	2
2	30A 16538	Support - generator	ı
	i	GM176839 - Bolt, hex., 3/8"-18 x 1"	
		GM199818 - Bolt, hex., 5/16"-18 x 1"	2
4	108.9748	Har - generator adjusting	
7	15175 (41)		'n
		GM100040 - Washer, plain, 11/02"	í
5	10A17540	*Regulator - Voltage, (Deten-Romy No. 1118900B)	i
	35A 2139	Harriess • wiritio, generator, to regulator	. 1
ti	10A9958	*Motor * starting (Delen-Remy No. 1108167)	1
7	10A 6959	Screw - look starting motor	. 1
		GM114507 - Nut. box, jam. 5/8"-11	
		*NOTE: Order toplacement parts for Generator, Regulator and Statzing Motor	
		direct from Delco-Remy Division of United Motor System.	Ι.
8	20A 10699	Hort - Delen-Rerry No. 9000308 GM454750 - Nut. grip. 1/4" 28	1 2
9	108 10700	Bracket - horn	
20	35A403	Horn Relay	
	10A9746	Wire - hom relay to hom, 12" long	
	35A 909	Wire - harr, button wire to horr, relay, 4" long	1
11	107/16321	, Lamp - head, with smalled unit	
15	10PT533	Unit - scaled	
15	10P:552	Molding - waled ontr	
24	3RAE31	Support - head lamp	
		GM 290938 - Nuc, bex, jam, 1/2"-18	
15	35A 632	Plate - tetainet, head tamp support	1
16	35A041	GM180120 Bolt, hex., 2/8" 16 x 1-1/8"  Disc - tension, tamp support, 1" dia.	2
11:	15A15557	Clip - head lamp wire	;
	25A 3004	Wire - with tuse, S6" long	l i
	85ASC98	Wife - extension, Ed" long	Ιi
17	25A 0001	Lamp - stop or rail light	li
18	35F965	ters	_
19	33P364	Gusket	1
20	350366	Retainer - less	
21	25P363	Connector, p, p	
	35A 1749	Gracket - gall lamp	
		GMT91652 - Bolt, hex., 3/8" -16 x 3"	] ]
	11.4.2007	GMJ29377 - Not., hox., 3/8"-16	; 1
	35A387	Wite - fail Jamp, 81" long Switch - stop light, on Master Cylinder	, ]
	35A3006	Wite - switch, 42" long	. 1
	35A 2009	Wire - stop light to switch, 77" long	. 1
	1CA7681	Clip - tail tamp wire	l î
2.2	26A 33 37	Вох - battery	] i
		GM102635 - Not, leex, 3/6"-16	
30	S&A 3983	Clamp - bartery hold down	
		GM102605 - Net, hex., 3/87-18	. 2
24	85A2231	<sup>3</sup> In - pivot, battety box, 6/8" x 8-1/4"	1
25	35A 3002	Cable - battery to scarring moret, 307 long	1
26	33A9901	Cable - ground, origine to frame, 97 long	
27	08A 9830	Cable - ground, battery to frame, 7" long	1

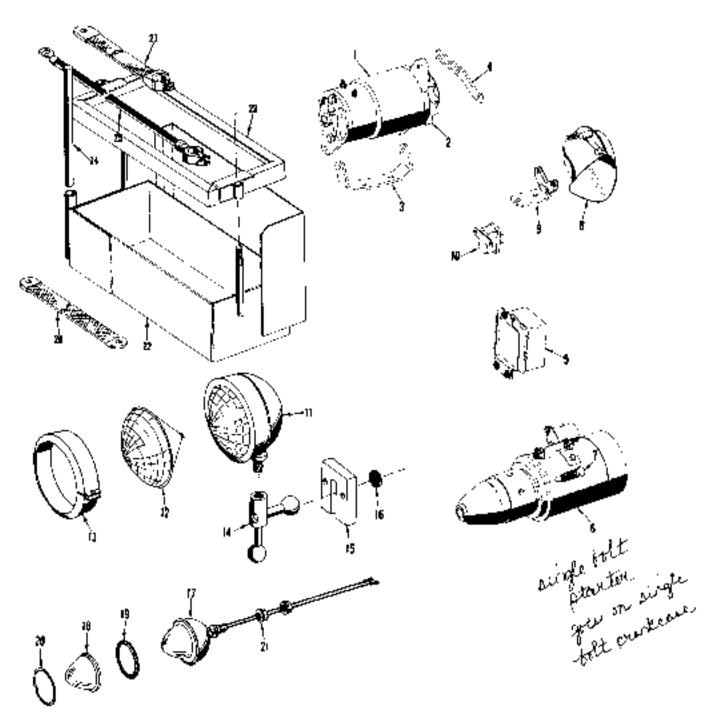
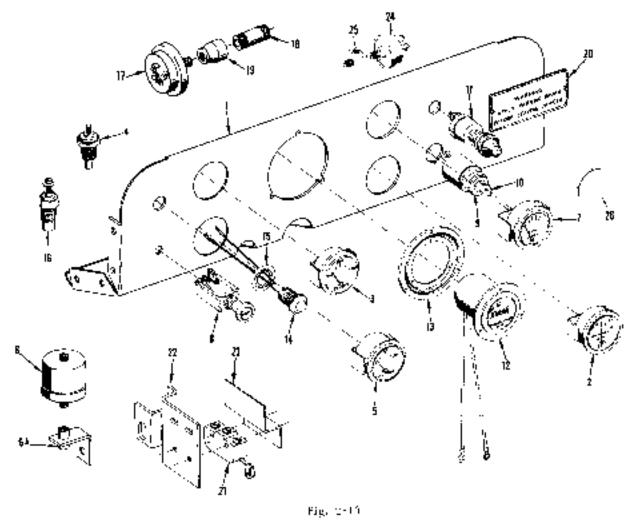


Fig. 2-16

		DESCRIPTION	No Pes
	1	INSTRUMENT PANEL	
2	35A2G99	Panel - Insternion	ι
		GM158393 - Serew, cound head, 1/4"-20 x 5/8"	12
		GM:20373 - Nut, Rex., 1/47-20	19
2	05A214	Gauge - ammeter	1
	95A L068	Wire amounter to Sgulfick switch, h" long	I
3	168411	Gauge - ongine temperature	ī
	35A L068	Wite - temperature gauge to oil gauge, 8" long	ı
4	35A 996	Mair - competature sonding	1
5	05/412	Gauge - oil pressure	- 1
ь	35A468	Chait - sanding, cil pressure	1
KA	30A1762	Support - Oil pressure, sending wit	1
		GM187384 • Coupling, pipe, 1/8*	ı
		GM9402680 - Connected, 1/8" N.F.T. to 7/10"-20	1
-	35A1750	Tube - extension, sending unit support	ı
7	35A212	Gauge - fool	1
e	35A1067 33A405	With a field gauge to temperature gauge	1
c	358 1966	Switch - light	]
	35A3004	Wire - with fuse, Ilght switch, 36" long	1
9	10A1677	Wire - wirn hise, right switch, 16 long	1
20	10/71	Switch - ignition	1
•••	05A1068	Kuy - ignition stately, set of 2 Wire - ignition switch to statting switch, 8" long	1
11	30A406	Switch starting motor	1
	35A2891	Haur Meter, MY 60	,
12	95A2850	Hour Meter, My 40 s	i
13	10A0436	Dampener - vibration, hour meter	'n
		GM100737 - Seruw, round head, No. 0-32 x 4/6"	ก๋
14	05A210	Light warning	
16	35/467	Place - warning light	î
16	35A 309	Unit - transmission, warning light	1
	3541765	Choke fied - with tube and knob, 28" long	1
		GM124923 * Nut, Rex. jam. 0/6"-94	ı
17	10A0296	Switch - pressure	1
18		GM108404 - Nipple, pige, cluse, 1/8"	ı
19		GM26;416 - Tee, pipe, 1/8"	
	33A2694	Kamess - Wising, upper	1
	05A2090	Hamess - wiring, lower	ı
	35A1102	Witre - Inwer witing hantess to coil	1
20	35ASC	Flate = brake warning	
A 1		GM:07437 - Setow, drive, No. 6 x 3/3"	2
21	35A (75Y	Switch - neutral, starting	1
29		GM 182664 - Setew, round head, No. 4-40 x 1"	2
29 28	35A2490	Stacket rinducting Bentral switch	1
_0	25A1754	Gover - switch bracket	Ţ
44	838825	*Switch and pressure	1
26	36P933	*Switch - oil pressure awitch	1
	43F528	"Wire - Oil pressure switch, 22" long	ļ
	36P626	Wire - (2) p. resource switch, 51" long	1
2£	96P530	**Jug - slap, panet opening	-
		*NOTE: Used on lift trucks equipped for using IP gas.	,
	l		
	:		

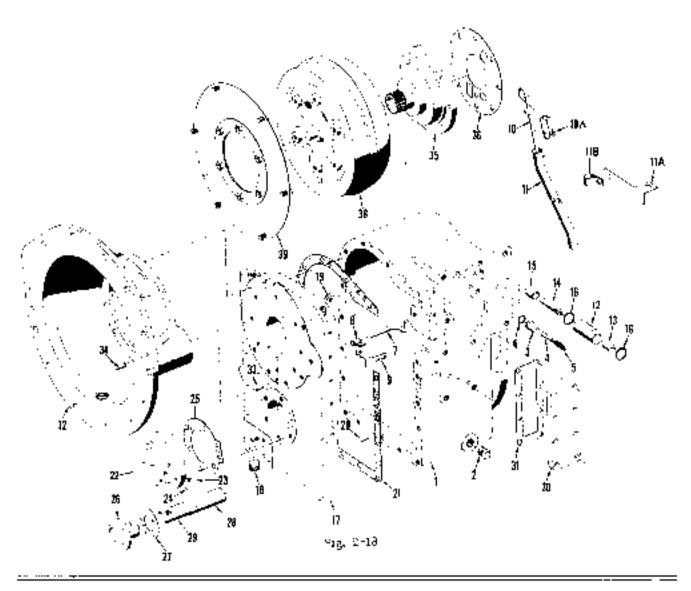


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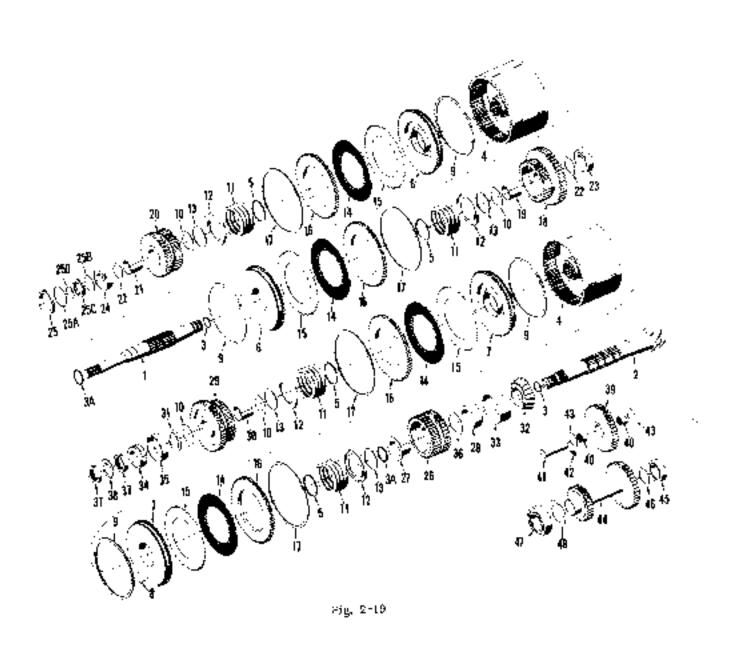
Res. No	Part No	DESCRIPTION	No Pre
	İ	!   TRANSMISSION CASE, CONVERTER AND PUMP	
	l		
1	95A9	Case - transmission.	!
	1	GM 100865 - Plug, pine, 1/8"+27	3
	1	GMR45648 - Rail, stori, 3/8° GMR80201 - Bult, Sex., 9/16"-72 x 1-1/4",	2
	1	GM #80219 - Bolt, hex., 9/16 1/2 x 21	10
	1	GM124382 - Nat, kcx. 9/167-12 cud.	,
2	10A2297	Plug + drain, magnetic, 1/2°-14	1
3	35A 1250	Valve - relicf, 3/4" O.D., 1-1/8" long,	- ;
ď	3341249	Piston - relief valve	i
ś	35A 1248	Spring - tellef valve, I" long, IV coils	î
Ë	10A 6329	Seal - "O" ring, relief valve, 3/4" O.D.	- ;
ž	36A324	Tube - seller valve, 5/16" x 4-55/64", with elip	i
g	35A673	Support - angle, tribe olig	1
-		GM 180016 - Bolt, hex., 1/4"-20 x 1/2" cad,	ā
	:	GM120073 - Not, hex., 1/41-20	3
10	38A1487	Diperick	ā
IDA	38A (448	Clamb - dipalek	ı
11	36A 989	Sleeve - dipstick, pressed in case	1
t ta	35A2168	Fracket - diler tube	- 1
113		GM140585 - Clip + filler tube ++++++++++++++++++++++++++++++++++++	1
		GM190116 - Bolt, box., 3/8"-16 x 1/2" cad,	1
		GM120077 • Not. bex., 3/8" • 16 cad, ,,,,	1
12	35A389	Harsing - prigrity valve, 1-1/8" x 0-3/4"	- 1
13	358308	Speci - priority valve, 3/4" O.D. x 15/16" tong	1
14	35A 890	Spring = stlority valve, 2-3/8" lung	1
15	30A391	Guide - valve spring, 1/4" O.D. x #5/16" long	1
10	10A 9908	Soal - "O" dng, priority valve housing	2
10	135A709	Washer • priority valve spring, 1/4" L.D., 1" O.D.	1
17	1004	Cover - transmission case	!
	l	GM143637 * Ball, steel, 1/2",	1
18	3NA 9263	GM:148641 - Rall, steel, 5/16"	ı
19	00000	Pluy = pige, 1/2"	2 1
		GM 180120 - Bolt, hox., \$/9*-16 x 1-9/8* c2d.	18
		GM100032 - Washer, lock, 0/87 cad.	13
20	10A / 1840	Pin - (owel, cover to case, 8/9° x 8/4"	2
21	354310	Gasket - transmission case cover	í
22	36A 102	Manifold - on transmission case cover, with orlifee and steel ball	î
2.3		GM1038E3 - Plug, pipe, 1/3"	2
24		GM 147485 - Ball, steel, 1/4"	ī
		GM190123 - Bolt, hex., 3/3"-16 x 1-1/8"	3
23	30A021	Gasket = manifold to tracs, case cover, 4-7/8" dla. ************************************	1
26	35A 105	Flange - filter mounting	3
		GM 180079 - Holt, hox., 5/16"-19 % 1"	8
15	35/317	Gasket · filter flange	ì
?E	36A319	Shelt - filter, 1-1/6" 1.D., 3-17/16" long	1
	3562419	Cover - filter shell	1
	i	50A44n - Holt, hex., 3/8"-16 x 5-1/4"	ŧ
9	35A318	Sereen - filter sheff, 1-3/32° O.D., 3-9/16° long	1
10	33A851	Cover - reverse (dier goars	ŧ
		GM180078 = Bult, cover, 5/16"-18 x 7/8"	8
11	35A 852	Gasket - reverse gear cover	1

MODILIFT - MY 40 AND MY 60 LIFT THUCKS

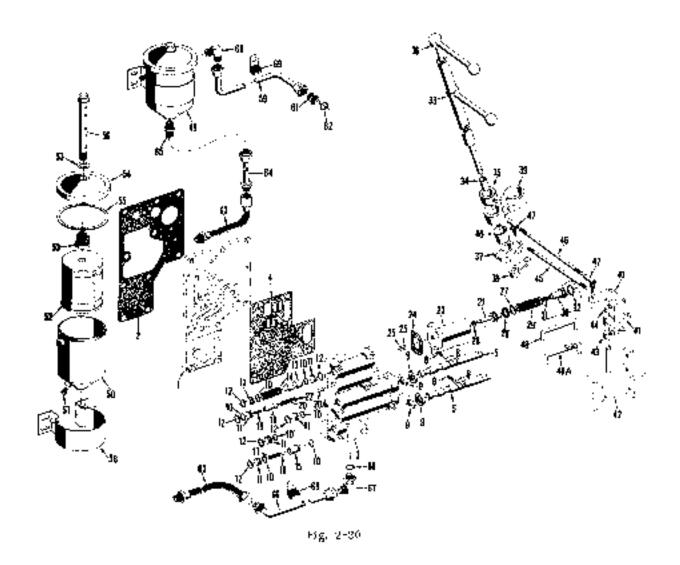
		MODILETT - MIT 40 AND RET ON LIFT TAYS. R.S.
Rd. No	Part No	DESCRIPTION No. Per
	:   	TRANSMISSION CARR, CONVERTER AND PUMP (Continued)
32	36A:09	Heaving   1
33	TCA 11543	Pin - dawet, bell housing, 9/6" x 3/4"
34	35A 663	Pin - dowel, bell bossing, 1/2" x i"
35	35A 311	Furny - converser, Long Mfg. Dlv. No. 17-F-60,
	10A3337	Washer - copper, nonverrer bolt, 11/80" 1.D., 3/8" O.D.
36	35A312	Gasket - pump to dovet
8-8	35/314	Converted - Long Mig. Div. No. F • 40 • (1 − 20 × − 1 − 20 × − 1 − 20 × − 1 − 20 × − 1 − 20 × − 1 − 20 × − 1 − 20 × − 1 − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 × − 20 ×
39	SSEACE.	GM:03020 - Washer, look, 5/16"



ef. So	Part No	DESCRIPTION	No. Pro
		THE PERIL SECOND	
	ι	TRANSMISSION	
1	. 96A928 I	Shaft - input, 15-8/8" long	1 15
8	   356243	Shalt - output, with pinion and ting gear (matched)	
3	i 35A341	eng - oil scal, input and nistput shafts, 1-1/4" O.D.	Ė
SA	75H 751	50A 766 - Pling - quad, shaft to housing	
	Į.	GM145641 - Ball, steel, 5/16"	
4	05A2133	Boustag - driving plates	
5	35A 355	Ring - uil seal, 2-3/8" O.D	4
5	`05A330	Piston - thout shaft housing, 7-a/8" 0.0., 59 teach	5
7	. adA336	Piston - Sutput shaft housing, 7-3/8" C.D., 58 teeth	2
9	Ļ	SM(14NF37 - Hall, sreel, 0/10" dia	2
	l	30A2862 = PSu, roll, 8/64" x 8/8"	2
9	10/16639	Ring - raping and comput pistons, T dia	4
C	03A397   cancar	Washer - thinst, plate housing, 1-17/32" 1.D., 2-3/8" O.D.	4
1 2	95A 981 95A 382	Spring - piston, 2-1/02" long,	4
3	32A843	Ring = snap, spring retainer, 2-1/8"	
4	95A833   95A833	Plate - [fireign, 7] O.D., 36 internal teeth	-0
5	SNA 234	Plate - backing, 7-5/8" O.S., 58 external reeth	72
i G	25A 835	Ring - backup, 3/8" wide, 36 external teeth,	
5	95A236	Ring - rerainer, backup ring, 7-1/2" O.D.	4
3	, 26ABB8	Cather - assembly with besting, i not shall, 36 and 45 tooth	1
9	1 05A209	Bucking * carrier, 1 • 1/2" I.D., 3-1/2" long ************************************	ı
(3	36A343	Carrier - assembly with bushing, input shaft, 35 feeth	. 1
;1	[ 85A 333	Bushing = <a:rier, 1-1="" 2"="" l.d.,="" long<="" td=""><td></td></a:rier,>	
22	\ 25A309	Washer - thrust, carrier to bearings	1 2
0-24	136A042	Reacting - ball, furne shaft	2
5A	35A981	Ring = collector, ball bearing	l 1
118 118	95A 993	ign & - lasten.	1 ;
30C	35A980	· Retainer - piston tiny	1
85D		50A 708 Ring, totalner	1
:ü	26A260	; Carrier - assembly with hisbing, output shaft, 25 teach	
τ.	25AC73	Bushing - carries assembly,	
:8	35A358	Spacer - carrier to bearing, 1-15/10" 1.D., 2-5/10" wide	1
9	30A264	Carrier - assembly with bushing, Output Shaft, 44 testh	2
.0	35/0330	<ul> <li>Bushing - eatrier assembly, 4-1/2" [.D., 4-1/2" [rog</li></ul>	יו
1	00A260	Spaces - carries to bearing, 1-93/64", 2-9/8" O.D.	
2	35A357	Come - bearing	1
#. 	35A327	Cup r bearing annual consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence of the consequence	!
4	95A365 95A368	Come - hearing	1 ;
i. B	03A059	Cup = pearing	1 1
o o	354366	Nuc - Inck, hearing, 19 N.S.	
á	35A967	Washer - Jock mit	
 19	36A 852	Gear - reverse, with bearing, 41 teetin	1 i
C	83A333	Bearing recolds	] :
ľ	25A35C	Shaft * reverse, 1" x ""	l ĩ
2		Bearing a needle Shaft = reverse, 1" x 2" GM229098 = Screw, set half dog point, 3/8" = 0 x 3/4"	] :
ą.	23A251	Washer = thrust, reverse gear, 1=1/227 L.D., 1=3/4" O.D.	1 -
4	S5A347	Shaft - idler, with gears, 50 and 25 tech.	١,
5	88A840	Bearing - roller, 1-1/2" [.⊃.	<u> </u>
6	25A669	Washer - thrust, thereisn goar, 1-1/207 l.D., 2-1/47 O.D.,	,
17	23A349	Beating - roller, 1-27/32" L.D.	•
r. Iš	\$5 <b>A</b> 048	Washer - thrust, 1-15/16" 1.D., 2-7/8" O.D.	. 1



$(\mathbf{X}_{t+1})$	Part No	DESCRIPTION	No. Pcs.
		CONTROL VALVE AND OIL FILTER	
1	25A9	Block - porting	1
2	364.279	Gasker - porting block to rrans, case cover	1
2	35A7	Body - valve, w/ inching feature,,,,,,	. 1
4	858879	Gasket - valve body to porting block	)
		GM180180 - Bott, acx., 1/2"-13 x 1-7/8"	4
	ì	GM180(88 - Bolt, hex., 1/27-13 x 2-2/4"	6
	i	GM192046 - Serew, filthster head, No. 10-24 x 5/8"	4
		GM120217 - Washer, lock, No. 10	а
3	35A37/2	Spool - lever control, 8/4" x 7-3/32"	
ส		GM14564) • Dall, steel, lever spool, 5/16"	2
8	35A378	Spring - steel ball, 28/32" long, 10 coils	2
9	10A16229	Seal : oil, lever speel, 3/4" t.D., 1/4" wide	4
n	104 6329 +	Seal - "Of ring, valve body	7
-	10A 15752	Plag = v2/ve body real, 3/4" O.D., 3/8" wide	6
2	1076330	Ring - snap, plug retainer	6
3	95A975	Spoul - ptessure regulator, 4/4" O.D., 2" long	
4	05/4374	Spring - pressure spool, 1-3/4" long, 12 coils.	1
5	35A377	Valve - tellef, 3/4" O.D., 1-1/9" long	] ]
5		GM145643 • Ball, steel, relief valve, 3/8"	1
7	35A376	Spring - relief valve, 1" long, 9 chils	1
8	05A 090	Speal - inching, 1.5/8" long	
a	35/4699	Spring - centering miching spool, 3/4" long, 14 coils	l !
n 	1 25A681	Spring • inching speal, 1-3/87 long, 11-1/4" toils	1
9A	1 35A 1791	Spacer - anching spool apring	. 1
) 2	35A 693 35A 692	Piston   Suchlag   2-5/9" long	†
% 3	35A10	Spacer - inching pisson  Cylinder - inching	!
,	35410	GM322056 - Serrey, fill, brad, No. 10-24 x 7/8'	i
4	357.694	Gasket - Inching cylinder to valve body, 1-3/47 x 2-1/47	
- 5	10A 4538	Seal - "O" Ring, cytLides to valve body.	-
ß	35A 695	Packing - Vee Block, cyllider, Chicago No. 1068V48	l i
 7	30A 688	Washer - backup, cylinder packing, 3/4" 1.D.	' i
8	1 000.000	SUASEUR - Washer, inching platen	ī
9	353 690	Spring - cylinder, 2-1/2" long, 11 esits	ا أ
Ù	83A 697	Plug - Lylinder spring	Ιi
j	35A1770	Speing - and of plug	l i
ė		Spring - roc of plug 50A196 - Ring, stap. plug. Tru-Arc. No. 5070-109	] ;
	\	GM138202 - Serew, spekes head, 1/4" •20 x )"	]
8	96A571	Lever - hard, with slower and boshing, high and low range, order	
4	354/288	Bushing - 1/2" 1, D. 1" Long, Chrysler Corp., No. AA 850-2 ************************************	i
5	10A895S	Gellat - tebe. 1-5/64* 1.3., 1-5/8" O.D.	
		50A 1838 - Seruw, set, 3/8"-16 x 1/2"	1
6	304.655	Lever - hand, with shaft, forward and reverse, outer ************************************	
7	36/15/14	A rm - hand lever tube	
		GM106743 - Key, woodrulf, No. 3	
		CM180128 - Rolf, hex., 3/87-16 x 1-3/4" cad.	
ä	35A575	Actn = band lever shaft	1
		50A2823 - Fin, coll, 3/16" x 1"	: 1
	054570	50A2082 - Washer, plath, 17/82"	2
b	00A 573	Clamp - hand tevet	2
<i>.</i> .	264.500	GM(80133 - 3blt, kex., 3/87 16 x 2" rad,	
()	35A587	Bushing - hand lever clamp, 1' J.D.,1/4" O.D.	
	360.1844	Busting - assembly and to claim.	'
		GM193378 - Bolt, hrx., 5/16"-18 x 7/5"	2
	35A 1945	Support - Dearing assembly	1
		GM188123 - Bolt. Incx., 5,16"-18 x 7/8"	1 2
		GM120304 - Wosher, plain, 13/32"	2
1	36A 578	Bull Crank - connecting links	
2			



37

43 44 46 47	354582	CONTROL VALVE AND OIL 7E.TRR (Cont's) 50A2C32 - Washer, plain, 17/32",	
46 46	354582	·	
46 46	35/4582	50A 2CS2 - Washer, platp. 17/32"	
46 46	35A582		ι
46 46	35A582	GM103385 - Pip, cotter, 1/8" x 1"	ī
46		Spacer - boll crank, 15/82' thick, innot,	)
	15A14814	Spacer - bell crank, 0/6" thick, between cranks	1
17	35/1685	Rod - hand lover to bell crank	2
		GM442720 • Joint, hall, band lever rods, 5/16" dad,	4
		GM120968 - Nut, hex. 5/161-24	4
4.5	25A586	GM124920 - Nut, hex. jam, 5/16" •24	4
48 48 A	36A2495	Link - yalve to beli crank, 8/8" x 4-1/4"  Link - yalve to bell ctank, with allp for neutral scarring switch	1
40 A	3042483	GM108873 - Pip. ontter, 3/88" x 8/4"	$\frac{1}{2}$
49	35A6	Fliter - Cil. Fram No. 2468	1
50	35231	Budy - Fram No. 8715	'n
51	17112 172	GM:444914 - Flug, étain, 1/8"-27 N.P.T.	i
52	25732	Cartridge · Fram No. 118106	1
59	35235	Spring - assembly, Fram No. 118940,.	ī
54	35534	Gover + Fram No. 103326	1
55	35638	Gasket - cover, No. 102027	1
56	26936	Bolt - cover, with valve, Fram No. 2563 ************************************	1
57	35937	Gasket - boh, Fram, No. 101979	1
85	25538	Strap - inconting, Fram No. 10768	1
		GM189421 - Setew, round head. 1/4"-20 x 8-1/4"	1
		GM120372 - Nut. squabe, 1/4°-20	1
		GM131203 - Washer, Took, 1/4"	1
98	35A1282	Tube - filter to transmission case, 1/2" O.D.	1
		50A 600 - Cilip, hibe to frame	1
60 61		GM9402865 - Eibow, filter intet	1
62	104.2012	SM0410977 - Elliow, transmission optiet	1
63	35A862	Hose - cooler, inlet and outlet, 12-1/2 long	2
64	95A1283	Tube - filter to cooler infer	
<del>9</del> 5	V	GM9492709 - Connector, filter entiet	i
66	38A1284	Tube - valve to cooler hose, 1/2" O.D.	1
67		GM9410979 - Etbow, valve splet	1
68	10A02012	Scal - "O" ring, valve elbow, 21/32" L.D	ī
69	R1/88/ID	Clip - support coalet tube	6
		in M180088 - Bo.t. hox., t/16"-18 x 9/4" cad	2
		GM120376 Nut, hck., 5/16*-18	2
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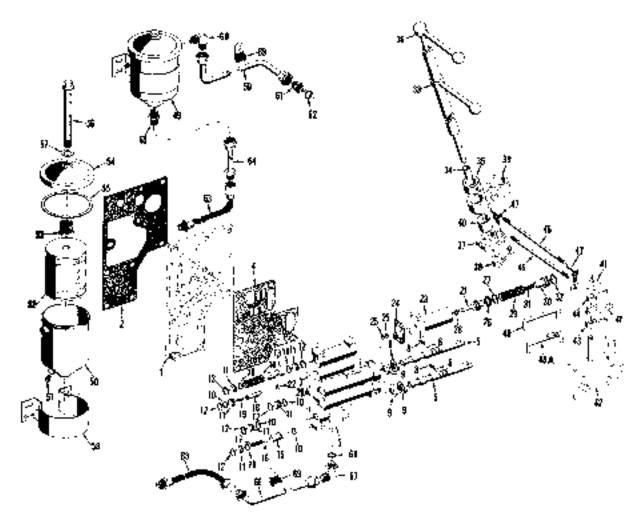
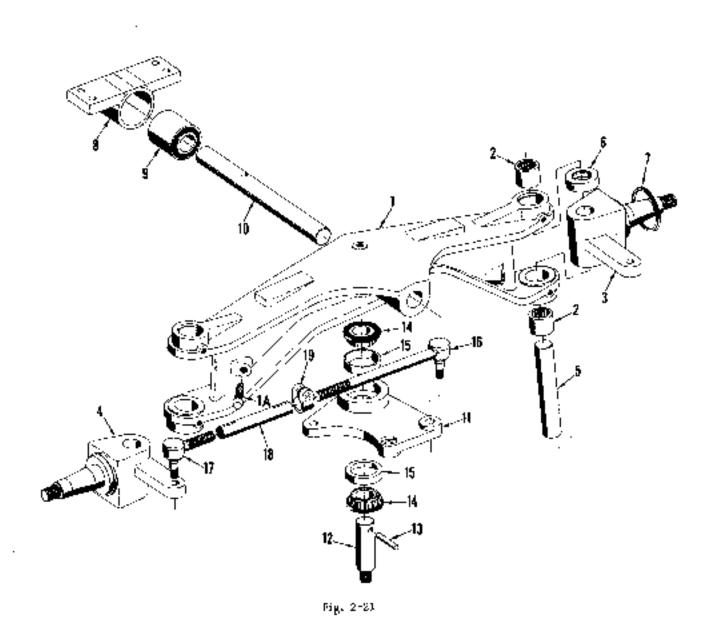


Fig. 2-20

	Part No	DESCRIPTION	No. Pcs
	!	MY 46 STEERING AXLIT	
	i		
)	35A1795	Axle - steet	1
1.8		GM139502 - Screw, set. 1/2"-18 x 1-1/4", cone point	ä
271		GM120238 - Nut, kex, jem, 1/2"-13	2 5
		GM172678 - Flug, expansion, 1-2/4",	<b>a</b>
2	354 1847	Bearing - needle, in axle. Comingron No. 3H2020 CH	4
3	35A 1796	Spincle - wheel hub, right hand	1
4	35A1797	Spincio - wheel hub, lelt kand	i
5	33A 1799	Pin - spindle to axle, 1-1/4" x 6-13/16"	ż
6	30A 6448	Bearing - thrust, for spindle pin, Timiken No. T 126	2
7	89V1903	Seal - dust, on spindle, National Seal No. 65438	2
Ĕ	3EA 549	Dearing - exte pivor	2
9	358 583	Bashing - bearing box	2
	I	3dshing - bearing box GM180180 · Bolt, hex. 1/2"-13 x 1-7/8"	9
	<b></b>	GMINGSTR - Nut, hex., 1/2"-13	Ä
10	35A 180)	Shaft - axle to plyot bearing, 1 1/4" dia, x 13-1/2" long	l
11	30A1483	Housing steering the rods	1
12	25A1H00	Pin - nivat, steer housing to ex)e	1
	1	50A 2143 - Washer, plain, 25/38" x 1-3/4"	1
	1	GM427840 - Nut, hex. slotted, 3/4"-10 GM103409 - Pin, cottor, 3/16" x 1-1/2"	1
12	35A1802	Fit: - luck, pivot pir to axie, 3/8" x 0"	1
14	20H4700	Cone - bearing, steering housing, Tamken No. LM679001	1 2
15	15A10703	Cup - hearing, steering housing, Timken No. 1.M67910	2
16	35A 565	Socket - tie rod, long, Thompson Products No. L-14- SV-642-A-11	2
17	85A 564	Sacket - tie rod, short. Thampson Products No. 1-14-SV-640 A -11	2
		GM193385 - Pin, cotter, 1/8" x 1"	ā
18	35A686	GM193385 - Pin, cetter, 1/8" x 1"	2
10	35A887	Clamp - adjusting sleeve	4
,	1		
	1		
		77480000	
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	<del></del>	MOBILITY + M.) 40 AND MY 80 LIFT TRUCKS	— <del></del>
d So	Part No	DESCRIPTION	No Pos
	•	MY OF STREETING AXER	
	35/2995	Agile - steering, assembly ,	1
:	05P114	Axle - center	1
2	35P118	Shaft -monthing arm	
3	05P115	Bearing * steering kituakto pin	4
4	35P135	Cap - bearing accuming	2
5 7	85P132	Venetic essential sight bond	,
8	35PL19	Kngakle = steering, right band	- 1
g	10/16/143	Bearing - thrust, meeting kneckle	į,
10	258130	Shorn - steering knuckle	95 E44
11		Shorn - steering knuckle	4
10	135P17	Key + éraw, kenickle pin	2
		GS110302E - Nun, draw key, 378"-24	'2
L?		G51137634 - Serew, step, steering Rneckle, 7/167-74 x 2-3/4"	2
		GM275120 - Var, strip screw, 7/167-14	2
14	35P110	Pin - steeling knockte	::
15	197122	Annin Secting, center	1
15A	Q5P342	Smó - hati, custer steating arm	1
	l	GM0/2640 - Nw., glorrect, t√81-18	1
18	VT 921	Nor - steering arth and shaft	!
17	35P 08	Washer - specing arm mir	1
18	VT897	Copin greate, accerting arm	l i
19 20	33P120 30A 699	Cone - bearing, center steering arm	
27	35P120	Cup - hearing, conter steening arm  Scot - fold, seeding arm bearing	
20	33P119	Cup - lok seal	- 1
	369116	Tie 806 - assombly	ż
23	33P24	End - tie rod, left hand	2
21	36926	Find - tip rod, right hand	2
전하	35/224	Cover - tip red ept, pubber	4
26		GM102849 - Nut, Beks, Siouce, 3/81-15 (14,4)	:
27	3 <b>5</b> P109	Sleave • ne md.	2
28	15920	Claub - Co tog	4
23		GM181400 - Boll, the cod clamp, 7/16*-50 x 1/1/2*	1
		GN079505 - Nur. elamp bolt, 7/161-20	4
30		GM11206 • Fitting, grease, straight	ς.
00 31	25.22.16	GM173102 - Firting, greate, 450	2
32	359126 359126	Slub - wheel, with beating cups access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access, access	2
33	35P107	Cup - bearing, outer Cup - bearing, inper	" 2
34	33P124	Orne - hearing, wheel linb, binet	ů
25	35P128	Cone - bearing, wheel hub, time.	ž
36	330126	Seat - oil, wheel hab	ÿ
37	VT 924	Nut - spincte bearing:	2
26	33P108	Washer - hearing retainer GM 00388 - Cortor, spindle not, 1/3" x 1-3/4"	: 2
20	33P123	Cup - 3ub GM279837 - Both, high cap, 0/8"-10 g 3/4"	2 8
40	5-(A754	Besting - bearing cage assessment and accompany and accompany	2
11	36A 765 	Shaft - with bracket, axle support	2 8
	!	GM124583 - Nut, support holt, 5/8"-12	8
		İ	
	!		
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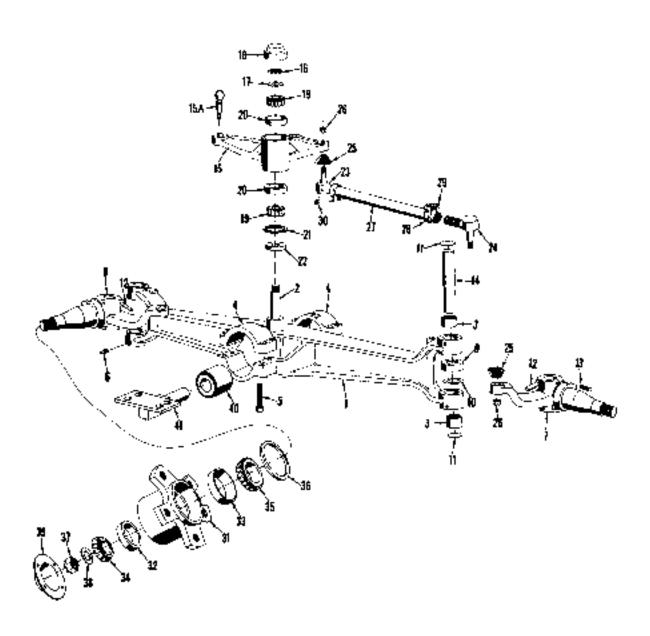


Fig. 2-21A

41 No.	Part No.	DESCRIPTION	No. Pcs.
		DRIVE AXLE AND DIFFERENTIAL	
	35/0158	Housing - drive axie, MY 48	2
	35A2907	Hausing - drive axle, MY 60	2
	36A2700	Hausing = drive axle. MY 60	26
	!	56A 162 - Nat. Nylock, 5/8"-11, MY 66	
	:	GM124589 - Nut, hex., 6/8"-17 ead	14 or 1
13	35/2167	Breather - in drive axie housing, MY 40	2
	26A2516	Breather - in drive axie housing, MT 80	2
9	35//231	Shirm - axio housing to diff. case, .030 thick	4
2	25A421	Shim - axle housing to diff, case, ,005 thlek	4
E 9	35AB(9)	Shim - axio housing to diff. case, .902 thick	4
2	25A222	Seal = "O" ring, axle housing, 6-1/4" O.D.	5
4	35A (751	Axic - drive, with 13 woth year, 2" x 12"	5
5	35A2158	Cup-roller beating, drive axio	1
58	35A 2150	Cone - : olter bearing, drive axie	1
ô	104 10471	Ring - retainer, collect beauting	2
7	35A51h4	Rotalnet - toller bearing	2
		GM:180070 • Belt, hex., 5/16"-18 x 1/2", cad.	9
7.4	05A515h	Shim - coller bearing cotaliter, 1000 think	Var,
ባለ	35A2156	Slim = coller bearing retainer, 1005 thick	Ver.
TA e	3542157	Shim - collect bearing retainer, 1020 thick	Var,
5	38A 1252	Housing * releast share, MY 48	
		GM 18: 669 - βαίτ, hex., 7/16"-20 x 1-3/8" gad.	24
	858420	GM271306 - Nut, hex., 71107-20, cad.	22
	250/423	Hensing - wheel shaft, AN 68	2
		60A1970 - Bolt, wrench head, 1/2"=30 x 1-9/4", MY 60	76
		GM181502 - Balt, hex., 1/2"-20 x 1-3/4", MY 60	6
		30A1371 = Bulr, wrenth head, 328'-18 x 1-1/2", MY 60	22
9	36A242	Gasket - wheel shaft housing, 12' dia., MY 40	١ .
•	35A3939	Gaskot - white I shaft housing, MY 60	2 2
.0	36AC35	Shaft - wheel, with bolting flange and bil shoold, MY 40	2
	364,980	Shalt - wheel, with boiting flange and old shield, 500 60	2
:1	98A1750	Sour - wheel shaft, 44 rooth	2
12		80% 381 - Nat. 19ck, wheel shaft year, 2-1/4"-12	ē
13	35A 1850	Waster - wheel shaft nin	ë
14	35A 425	Cope - Scaring, wheel shaft, inner	2
15	10/11489	Cup = bearing, wheel shaft, inner	2
10	984239	Cone - braning, wheel shaft, outer	2
17	36A228	Cup * beading, wheel shaft, outer	. 2
19	35A 237	Scal - oil, wheel shalt	. ε
16	30/236	Sleeve roit seal	2
50	35A206	Case - differential	1
	251.000	GM105865 - Phug, ptpc, 1/8"-27	ı
21	35A 683	Pin - dowel, differential case, 1/2° x 1°	ü
22	35A227 35A044	Gasher - differential case	-
224	95A1948	Cage - differential, left haaf	1
20	10A 731	Cage - differe mat, right head	1
2.	102751	Bolr - differential cage, 1/2" x 8-3/4" GM119254 - Nut , hex., slotted, 1/2"-20	8
24	10A 6712	Cane - bearing, rage	. g
20	10/1687	Cub - hearing, cage	. 3
26	35A 1407	Ring - extraner, caller bearing, R-8/4' O.D.	9
27	955042	Coar - ring, 40 reed; (matched with punion)	1
<u>0.6</u>	100.766	General Control of teeth	2
20	10/405	Grade - Bevol, Of teeth Washer - Mirusa, 4-1/4" O.D.	2
30	(14,5359	Pinion - beyol, with bushing, id teeth	4
31	1045960	Bushing - hevel pinlan	4
32	10A1594	Shafe - bevel pinions	*
	i 36A9112	Flug = magnetic, 1/27-14 N.F.T., drain	



Fig. 2-22

MODILIFT -	MY 4	40 AND	MY EC	ነ 18ምም ነ	TRUCKS
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teli, No	Pari No	DESCRIPTION .	No. Pes.
[		ARAKES 1	
i		l	
	35A 1241	Brake - assembly, right hand	1
	35A1242	Stake - assembly, left hand	1
		50A594 - Sciew, cap, 9/16*-32 x 1-3/8"	14
1	35P317	GM178434 - Screw, bex, sheet metal, 1/4"-14 x 1/2"	4
i	35P319	Plate - backing, C.H. broke	1
2	359319	Spiner	2
3	40.51	GM179614 - Bolt, hex., 5/18" -18 x 5/8".	4
5	35P320	Pin - anchor	4
6	354321	Shoe r brake, with lining	4
,	052399	Pin-shoe, guide	4
8	350822	Clip - shoe guide string	4
9	35 <b>2</b> 324	Spring - shue return	4
10	35P326	Spring - adjusting white:	2
11	959326	Guide - star wheel adjusting	2
15	95 <u>9</u> 327	Seriew - adjusting	2
13	05P3%8	Nut - adjusting	22
14	956029	Gylinder - wheel, assembly	2
15		GM179517 - 90lt, hex., 3/16"-18 x 7/3"	4
16		GM103520 - Wesher, look, 5/16" ,	4
	159330	P)ug - adjusting	2
17	959331	lever and Pin - assembly, 1.11, parking brake	1
18	<b>359</b> 332 35 <b>9</b> 383	Lever and Pin - assembly, 6.H. parking brake	1
19	305033   358334	City - "C" spring	2
19	95F336	Link and Pin - assembly, R.H. parking trake	1
••	25P336	Clamp -1.1L emergency cable	i
	259337	Clamp - K.H. emergency cable	i
96	364339	Body - wheel cylinder	ġ
21	35P340	Spring - with revalue:	
28	359341	*Cup - placon	4
22	251/342	Piston	4
94	352348	*Bant	4
25	253344	Pash Rod	4
	852345	Serew - bloedet	2
	26F338	"Kit - tepair, includes items with an asterisk (")	
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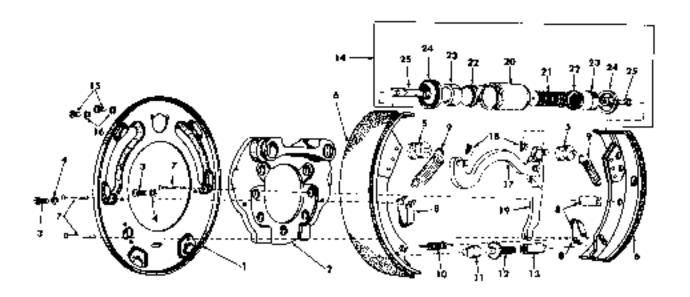
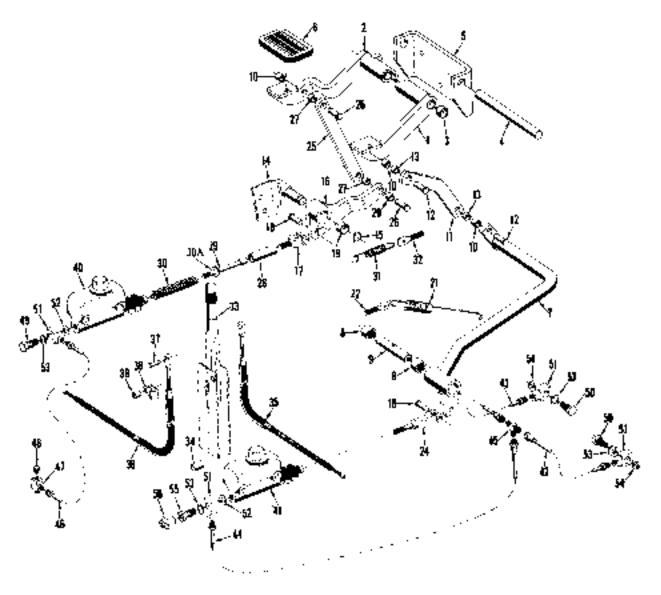


Fig. 2-23

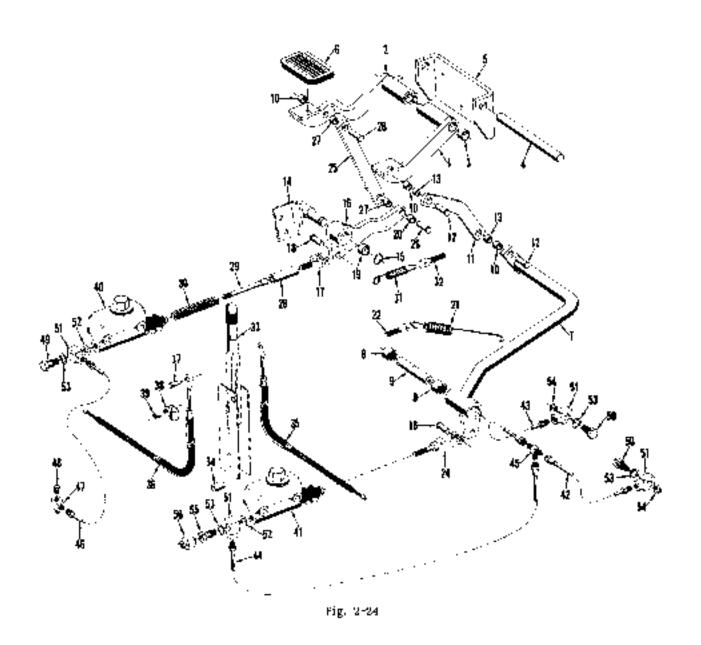
ROBLIET - MY 40 ANI	D MY SOLIET TRUCKS
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1 2 5	A6A0256	BRAKE AND INCHING PEDALS WITH LINKAGE	
2 2	A6A0256		
ő		Fedal - hrake	1
ő	3642256	Pedal - inching	i
· ·	3542120	Bushing - in hub of brake and forming model:	4
•	05/-2020	Shafe - votati to bracker	- 4
	11.11.11.11	Shaft - pedal; to bracket	,
.	D	50/2836 - Pin, roti, 1/8" x 5/8"	
5	2541510	Bracket - on shroud, for nedals	1
		GM160102 - Bolt, hext, 8/81-16 x 1"	3
_		GMI20075 • Not. bex., 0/8"-16	3
6	35A000	Pad - from and inching pedals	
		GM12U369 - NBL, Lex., 3/81-24	2
7	36A223T	Adm + brake, MY 40	1
- 1	36A (813	Arm - brake, MY 60	ī
8	8435	Bearing - needle, in arm	2
9	33A201	Shaft - pivot, higheraum to frame	1
- 1		50A2827 - PSn, roll, 1/4" x 3:1/2"	ī
- 1		GM273352 - Fitting, grease, 1/87-27 x 90 <sup>6</sup>	1
50	96A 2252	Bushing till brake, brake arm and mohing bodals, 1/2" long	3
);	98A1812	Ligix - brake peda, to brake arm	1
12		GM:274563 - Pin, consector, 7/16"	2
		GM121225 - Pin, rotter, 2/027 x 2/4"	2
:		10A 2024 - Washe:, Plain, 15/32"	1
13 1	35AVC31	Displing - in ends of brake link	
14	3 <b>6</b> A2453	Chafe a place on frame for half coats 343 20	
'	36A2%43	Shaft - pivor, on frame, for bell crank, MY 40	1
	040 XX4 1	Shaft - pivot, on frame, for bell grank, MY 60	1
		SMI80120 - Rolt, hex., 2/8"-16 x 1"	2
. 1		GM120907 - Nut, Bex., 3/5"-16	ι
IQ		SCA 596 • Ring, snap	,
16	36A2242	Crank - beil, on nigor shaft	)
17	38A 3358	Cloves = 7/16" •20, for belt rezok ,	1
18		GMA74863 - PtG, compector, 7/16	2
- 1		GM109406 - Pio, cotter, 3/16" x 3/4"	1
		GM270123 - Nut. hex. js n. 7/167-20	1
		GM120305 - Washer, plain, 15/32"	9
19	3540123	Dushing - in bell crank	
20 j	93AB252	Aushing - in boll crank	- 5
at l	374.200	Spring - Brake arm recom	i
22	SSA 2 03	Bolt - eye, brake arm spring	
·		GM124829 • Nat. hex., 2/5"-16	- 4
34	35A2985	Clevis - with rod, MY 40	
	15A294B	Rod - brake arra to master cylinder, 7/18"-20 x 10, MY 60	
	1111.2.47	GM144244 - Clayls, 7/16 -20, MY 80	1
25	3542230	Lieb - (n. bino and in to local access	L
26	JONELOC	Ulab - (aching peda) to bell comb	1
-"		GM271583 - Pig. clevis, 7/16"	2
		GM121222 - Pin, estiel, 5/32" x 3/4"	3
	47.500.5	50A 2024 - Wasiter, platn, 15/02"	2 2
ו ניי	36A2261	Rushing - In Inching link, 3/8" long	2
! H	10A 2382	Sleeve - on belt crank clevis, MY 40	1
_	35A2246	Sleave - on hell crank elevis, MY 60	- 1
:P	35/42/45	ROD + between sleave and inching cylinder, 4-5/16" long	1
0	85/2247	Spring - over rac	:
:IA		GM120894 - Washer, plane, 13/48"	1
- 1		' GM124828 - Nut, hex., 3/8"-16	ī
:	53A 2364	Spring - Inching godel cotom	1
2	354209	j Bolt viege, for inching pedal return soring	1
		[ GM 124829 - Nut, hex. jam. 3/8* • 18	i
- 1		GM120369 - Not, hex., 3/81-16	i
			-
- 1			
- 1			



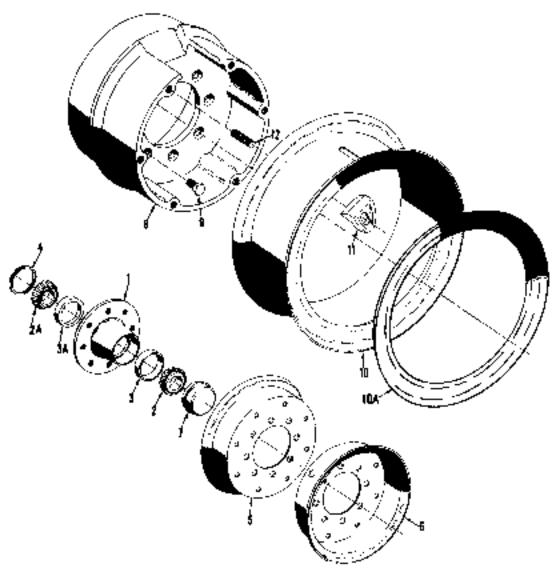
Hg. 2\*24

	DESCRIPTION	No. Pro
	FAIRKING BRAKE	
35A183	Lever - hand, pa:king brake	1
	GM120976 - Nuc. bex., 5/16*-18	3
35A102B	Spacer - hand lever, 5/8" O.D. x 15/16" long	2
35A [27]		1
35A1272		1
3542780		
	Cable - hand lover to left hand brake, MY 60	7
20A3978	Clip - left hand broke cable, MY 60	1
35 <b>A 188</b>	Pin = cable to hand lever, 7/16" x 13/16"	2
	GM321222 - Pin, cotter, 3/32" x 3/4"	.2
35A190	Clamp = cable ,	2
35A L91	Spacer - cable clamp	2
	MASTER CYLINDER AND OIL LINES	
35A 1834	Cylinder - snaster, left hand, MY 40	t
	Cylinder - master, elebr or left band, MY 60	5
	Kir - repair left hand master cullade - 05/1994	1
	Cylinder - master, tlabs hand MY 40	ı
0.7/10/10	GM103877 - Plug pring, studge heart 1/8"	٠ '
35P387	XIr - regain, girthe hand master cultinder, 35P499, MY ±0	3
1201 1201	GM180738 - Bolt hex., 3/8"-16 x 3"	4
	GM190397 - Nut. Nex. 3/97 -16	8
3541801	Tube - wirb purs, mahr hand brake line. M. 40	ľ
	Tube - with nors, right hand heaks line. MY 80	, i
	Tube with ruts, left hand brake line. MY 40	1 1
	Tube - with puts, left hand brake line, MY 60	,
	Tube - spastet cylinder to tec. MY 40	i
	Tupe * with outs, master cylinder to too, MY 80	l î
	GM 9402953 - Tee, 3-way, 7/16"-20	li
95A1855	Tube - inching evlinder to inching estee, MY 40	ĵ
	Tube - incluing cylinder to inching valve, MY 60	ָ ז
	504 590 - Tee, include	, ,
	GM44468R - Place here society 1/8° =97	•
	SDA S95 - Role Trobing culturer	1
	504 940 - Holt, brake cylinder	2
	59A 895 - Swivel, confector	3
	50A 937 - Gasket	3
	SOA B41 * Grashor	<u>"</u>
	5/1A 934 - Belt. Mastet cylinder	ľ
35A387	Senich - stop light	l î
35A2468	Chip - taching to bell housing	1
	35A 1271 35A1272 35A1279 35A1790 35A188 35A188 35A180 35A1834 35A1834 35A389 35A389 35A389 35A389 35A389 35A386 35A386 35A3267 25A1861 35A3267 25A2481	SAI271   Cable - hand lever to right hand brake, MY 40



MOBILIFT - MY 40 AND MY 60 L	[ FT	TRUCKS
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let No	Part No.	DESCRIPTION	No. Pcs.
		WHERES, FRONT AND REAR	•
1	35A 1798	+Hub - rear wheel	2
2	10A 574	+Cone = bearing, rear wheel hub outer	2
9	104 698	+Cup - bearing, rear wheel his outer	9
<u>2</u> 4	15A13648	Cone - bearing, tour wheel hub inner	2
9A	15/12647		
3/1	10/(1204)	+Cup = bearing, rear Wheel hash innet	2
	i	GM131018 - Washer, plain, I"	2
			2 2
4	95A1803	+Sual - oil, rear wheel hub	
ā	35A5S5	-Ritin - rozer wheel, inther half	8
6	958A6E	-Ritm - reat wheel, outer half	5
		GM181639 - Bolt, hex., 1/2"-20 x 1" cad.	1£
		GM180120 = Boit, hex., 3/8"-16 x 3/4" cad	
		GM129377 - Nux, hex., 3/8"+16 cad.	16
7	35A358	+Cap = rear wheel blub	2
		+NOTE: For MY 40 Life Trucks.	_
	25P12G	+ -Hiph + read wheel, with bearing cups	3
	35f12b	-+Cup - bearing, outer,,	2
	35P12T	4 - Cup - bearing, fonct	5
	359124	++Come - bearing, Outer,	2
	33P128	4 (Cone - busing, linear	2
	359129	++Seal - oil, which heb	
	VT024	-+Nut - spindle bearings	
	059100	++Washer - bearing retainer	2
	359123	++Cap = bub + (GM178837 - dolt, box., 3/8"-18 x 3/4"	2 B
	i	+ (GM179837 - Anit, hex., 3/8"-18 x 3/4"	
	254557	+-Whomi - inner, rear half	2
	25A 758	(-Wheel - outer, rear half	2
		-+5CASE2 - Bolt, hex., 5/8"-11	10
	95AB39	+ -Boit - in opter wheel	10
		41GM121398 - Nut, hex., 5/8"-18	140
		++NOTE: For MY 60 Lift Tracks, use it ustration page 43	
8	\$54,252.0	*Comer - drive wheel	
8	35A 146E	"Bolt - hub, drave wheel	16
10	35A 639	*Rinc • dalve wheel, MY 40 commence.	
• • •	35/2775	"Rim - drive wheel, MY 60 ,,,,,,	
104	359972	fixing - renained, for ram	2
11	35A1299	*Clamp = ciDt	12
12	35A 1300	*9gå - rim clamp. 5/8"-11 N.C. x 2-1/4"	12
		GM324580 - Nut. rlm clamp stud, 5/8"-11	12
		*NOTE: Used on life trucks with single drive wheat	_ ا
	354410	**Center - drive wheel	2
	95A146E	**Bott - hub, drive wheel	16
	358639	**Rim = drive wheel,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4
	956972	** Ying - retained for rim	4
	338 #32	**Clamp - rim	
	35A 130C	**Shid * sirn charp + + + + + + + + + + + + + + + + + + +	
		GM124589 - Nut, hex. 5/8"-11	
	35A1012	**Spacer * between tims ,,	2
		**NOTE: Used on lift trucks with dual drive wiseds	
	1		
		}	į.
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	\	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	I



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MO912.1FT - MY	40	AMD N	ar i	60 LI	ĒТ	TRUCKS
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Ret. No	Part No.	DESCRIPTION	No. Pes
		MY 40 STEERING GEAR	
	35A 532	Gear - stending, with arm Includes the following 21 parts:	ı
ı	35979	Housing - with oil seal, hushing and cod cover	- 1
2	3578G	Scal otl ctos shaft	1
3	96 <b>P</b> 89	Bushing - cross shaft	2
4	สธรรร	Cover - end, lower section	1
5	3 <b>58</b> 80	Cam and Tube	i
R	<b>302569</b>	Cup - batl	2
7		GM14563) - Ball, sreet, 5/16" dia	22
В	GOPAGE	Ring - retainet	2
9	35 <b>6</b> 51	Nut - steering wheel	ī
10	05P64	Tube - )acket, with bearing ,	ī
11	356933	Searing - jacket tube	i
12	35P47	Spring - hearing	1
18	351348	Swat - spring	í
14	35P49	Clamp - assembly, jacket telle	j
		GM361347 • Rolt, hex., 5/16"-18 x 2"	i
		GM103025 - Nut, fiex., 5/16*-18	1
		GM215546 - Washer, Inch, ant, and ext., 5/16"	1
15	35P61	Cours - upper	-
1.3	Jure.i	Cover - upper	1
		CM209940 - Northern -100- 1100"	3
16	VT 223	GM103340 - Washer, mlajn, 11/%2"	8
16	VT224	Shirt: - Epper covet, 1002	Var.
		Shin: - upper cover, 1903	
3 R	VT225	Shire - upper covet, .030	Var.
17	ରଣPଖୀ	Shaft - cross, with not	
18		GM://4489 - Nur, hex. jam. 3/4"-16.,	ī
19		GM231846 - Washer, look, 3/4"	Ė
20	3517813	Cover - side, with adjusting screw	i
22	วรคขอ	Screw - adjusting	
22		GM214496 - Not. Lock, adjusting screw	ι
		GM179818 - Bolt, hex., 5/16" -10 x 1"	4
		GM103340 - Washer, plain, 11/32"	4
23	30P56E	Gasket - side cover	1
24	35A300L	Arm - steening	1
25	35A182	Wheel r steering	1
	ļ	GM180479 - Bott, hex., gear to support, 1/27-13 x 1-3/4" rad.	2
		GM120078 - Nut, hex., 1/2"-10	2
32	364 5R9	Drag Link, front, 42-1/2" long	1
		Includes the following 5 parts:	
37	35P241	Bearing - hall socket	2
28	359%40	Scar - spring	1
39	353938	Spring = sucket	1
0.0	352289	Rumper - apring	1
31	35P242	Plug - socker	1
32	35A 1040	Drag Link, reat, 19-5/16" long	ī
23	35P302	Scal - éust, rubbor	1
34	05A535	Glatrip - tear dray, link	ī
	Į	Glattip - tear drag limit	1
	1	GM120378 - Not. hex., 1/2"-18 cad.	ī
		GM271285 - Fitting, Jubiticator, 1/8"-27 straight	ś
	95A2514	Washer - drag link to booster, 45/64" L.D., 2-1/9" O.D.	ž
			:
	1	1	

MOBILIET -	M Y	40	AND:	MΥ	60	LITT	TRUCKS
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Res, So.	Part No	DESCRIPTION	No. Pre
		HORN EUTTON	
	33A 7066	Faction - horn, with wire	1
36	35P446	Gover - harn battom	1
37	35P447	9uttou	
38	35P448	Cup - repract	
39	S5P449	Spring - horn button	1
40	35P450	Cap - contact	1
41	93P451	Ferrele - Ensulating	1
42	33P452	Waster - contact	1
43	35P453	Spring - contact	1
44	35P454	Plate - hase, assembly	1
45	35P455	Secow - base place, No. 10 x 5/8"	9
48	85F470	Wire - with connector	1

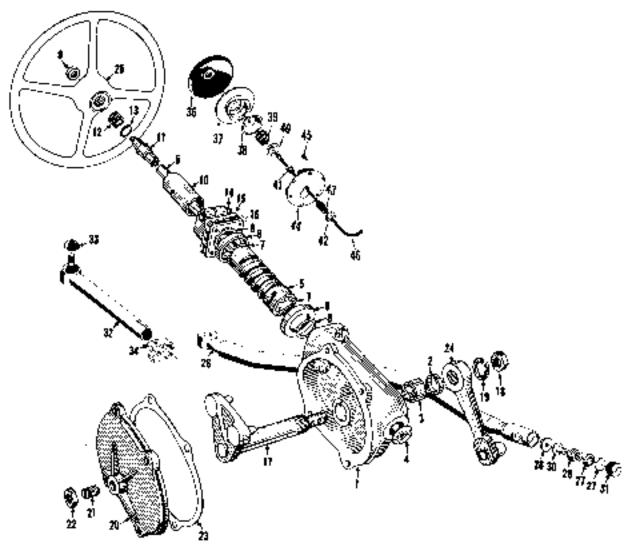
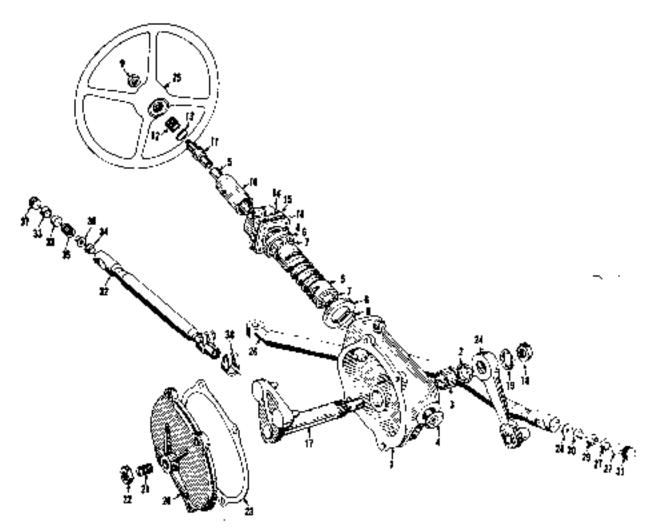


Fig. 2•26

	I	MOBILIFT - MY 40 AND MY 60 LIFT TRUCKS	<del></del>
ef. No.	Part No.	DESCRIPTION	No. Pes
		MY 60 STEERING GEAR	
	35A811	Gear - steering, less arm	1
		Includes the following 21 parts:	
1	35PT9	Housing - with real, bushings and cover	
Z	35/86	Scal - oth, cross shaft	1
3	35788	Bushing - cross shaft	2
4	35997	Cover - and, lower section	L
5 6	25P29B	Cam and Tube	
7	807559	Cup - batt GMI45631 - Balt, seed, 5/16" dia.	2 22
g	30 <b>P</b> 560	Ring - retainer	
ÿ	35P51	Nut - steeding whoel	
16	35P84	Tithe . jacket, with bearing	i
11	30P562	Besting - jacket tube	
12	35P17	Spring - bearing	ī
13	35F49	Scat - spring	1
14	35P4B	Glamp - assembly, jacket tube	Ιī
		GM181847 - Bolt, bex., 5/16"-18 x 2"	1
		GM103025 - Nut. Rex., 5/167-18	J
		GMIJ5548 - Washer, look, ext. & lnt. 5/10"	. 1
15 j	33P83	Cover - uppet	1
		j GM179916 + Bolt, upper cuver, 5/16" -18 x 3/4"	3
16	VT223	5htm - upper cover, 1002	Va.
18	VT224	Shitn - upper cover, .003	٧a
76	VT 225	Shirn - upper cover, ,410	Va
27	35P61	Shaft - cross, with nut	
18		GM114498 - Net. kez, jam, 3/4"-18	1
19		GM131046 - Washer, lock, 3/4"	
20	351782	Caver - side, with adjusting serew	
21 92	35P88	Screw - adjusting  GM114498 - Nut, lock, adjustbtg screw  GM179818 - Bolt, hex., 5/16"-18 x 1"	1
23	3 <b>0</b> P366	Gasher - side covet	1
24	35A3001	Aim - steetoet giring	
25	35A18Z	Wheel - steeting	
26	38A912	Drag Link - feet	i
		Includes the following 5 parts:	-
27 I	35P241	Dearing • ball socket,	2
28	35P240	Seat - spring	1
29	35F238	5 pring - 30cket	1
ao	35P239	Aumper - spring	
31 <b> </b>	35 <b>P24</b> 2	Plug - socket	I
32	35A314	Drag Link = rear	
33	354367	Bearing - Dall socket	2
34	35P368	Seat - spring	
85	35P369	Spring - socket	
36 37	86 <b>P970</b> 25P371	Bumper • spring , ,	7
88		Plug - socker	ì
°°	1061345	Glamp - tear drag link	I
I	25A 2514	Washer - drag link to honder, 45/64" I.D., 2-7/9" O.D.	
		sing same to second for the last a lift of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	
		1	



F1g. 2-26A

Cylinder - hydraulin, complete Includes the following 50 parts: Piston - with and and seal GM103026 - Not, hex., 1/2"-20 Ring - piston Seal - plston Gland - piston and Seal - "O" ring Ung - tetainer Ring - rerainer Seal - oil Ring - rerainer Seal - TO" ring Ring - tetainer Real - TO" ring Ring - tetainer Real - TO" ring Ring - backup Ring - tetainer Real - TO" ring Ring - backup Ring - tetainer Real - TO" ring Ring - tetainer Plate - end GM170793 - Screw, end plate, 1/4"-20 x 5/8", GM103313 - Washer, lock, 1/4"	1 1 2 1 1 2 1 1 1 1
Includes the following 50 parts:  Piston: with and and seal  GM103026 * Nut, hex., 1/2"-20  Ring: piston Seal - piston Gland: piston and Seal: "O" ring *Ung: backup Ring: retainer Ring: retainer Ring: retainer Real: "O" ring Ring: terainer Real: "O" ring Ring: terainer Real: "O" ring Ring: backup Ring: backup Ring: backup Ring: backup Ring: backup Ring: backup Ring: backup Ring: cetainer Plate: ond GM170793 - Screw: end plate: 1/4"-20 x 5/8"	1 : 2 3 1 1 1 2 1
Includes the following 50 parts:  Piston: with and and seal  GM103026 * Nut, hex., 1/2"-20  Ring: piston Seal - piston Gland: piston and Seal: "O" ring *Ung: backup Ring: retainer Ring: retainer Ring: retainer Real: "O" ring Ring: terainer Real: "O" ring Ring: terainer Real: "O" ring Ring: backup Ring: backup Ring: backup Ring: backup Ring: backup Ring: backup Ring: backup Ring: cetainer Plate: ond GM170793 - Screw: end plate: 1/4"-20 x 5/8"	1 : 2 3 1 1 1 2 1
Includes the following 60 parts:  Piston - with and and seal  GM103026 - Nut, hex., 1/2"-20  Ring - piston  Seal - piston  Gland - piston and  Seal - "O" ring  Hing - backup  Ring - retainer  Ring - retainer  Seal - oil  Ring - retainer  Seal - O" ring  Ring - backup  Ring - tetainer  Seal - oil  Ring - tetainer  Seal - oil  Ring - backup  Ring - backup  Ring - backup  Ring - backup  Ring - backup  Ring - backup  Ring - backup  Ring - backup	1 : 2 3 1 1 1 2 1
Piston - with and and seal  GM103026 - Nut, hex., 1/2"-20  Ring - piston Seal - piston G1std - piston and Seal - "O" ring Hing - backup Ring - retainer Ring - retainer Seal - oil Ring - rerainer Seal - O" ring Ring - backup Ring - retainer Seal - oil Ring - retainer Seal - oil Ring - serainer Seal - O sing Ring - backup Ring - backup Ring - backup Ring - cetainer Place - ond GM170793 - Serew, end place, 1/4"-20 x 5/8"	2 3 1 2 1 1 2 1
GM103026 - Nut, hex., 1/2"-20  Ring - piston Seal - piston Gland - piston rod Seal - "O" ring Hing - backup Ring - retainer Ring - retainer Seal - oil Ring - retainer Seal - oil Ring - tetainer Ring - tetainer Seal - oil Ring - backup Ring - backup Ring - backup Ring - backup Ring - backup Ring - backup Ring - cetainer Place - ond GM170783 - Serew, end place, 1/4"-20 x 5/8"	2 3 1 2 1 1 2 1
Ring - piston Seal - piston Gland - piston rod Seal - "O" ring Hing - backup Ring - retainer Ring - retainer Seal - oil Ring - retainer Seal - oil Ring - retainer Real - "O" ring Ring - backup Ring - backup Ring - backup Ring - backup Ring - backup Ring - cetainer Place - ond GM170793 - Serew, end place, 1/4"-20 x 5/8"	3 1 1 1 2 1
Seal - piston Gland - piston rod Seal - "O" ring Hing - backup Ring - retainer Ring - retainer Seal - oil Ring - retainer Seal - oil Ring - retainer Real - "O" ring Ring - backup Ring - backup Ring - backup Ring - cetainer Place - ond GM170793 - Serew, end place, 1/4"-20 x 5/8"	3 1 1 1 2 1
Gland - piston rod  Seal - "O" ring  Hing - backup  Ring - retainer  Soal - oil  Ring - rerainer  Seal - O" ring  Ring - backup  Ring - backup  Ring - backup  Ring - backup  Ring - cetainer  Place - ond  GM170793 - Screw, end place, 1/4"-20 x 5/8"	1 2 1
Seal - "O" ring  *Ung - backup  Ring - retainer  Ring - reminer  Seal - oil  Ring - reminer  Seal - "O" ring  Ring - backup  Ring - backup  Ring - reminer  Ring - reminer  Ring - reminer  Ring - reminer  Ring - reminer  Ring - reminer  Place - ond  GM170783 - Serew, end place, 1/4"-20 x 5/8"	1 1 2 1
Ung - backup Ring - retainer Ring - reminer Seal - oil Ring - reminer Real - "O" ring Ring - backup Ring - backup Ring - tetainer Place - ond GM170793 - Serew, end place, 1/4"-20 x 5/8"	1 2 1
Ring - reminer  Scal - oil  Ring - reminer  Rang - reminer  Real - "O" ring  Ring - bankup  Ring - tetainer  Place - ond  GM170793 - Screw, end place, 1/4"-20 x 5/8"	2 1 1
Seal - oil	1 1
Ring - recipier  Seal - "O" ring  Ring - backup  Ring - tetainer  Place - ond  GM170793 - Serew, end place, 1/4"-20 x 5/8"	1 1
Ring - bankup	1 1
Ring - bankup	1
Ring - retainer Plate - end GM170793 - Serew, end plate, 1/4"-20 x 5/8"	
Plate - end GM170793 - Serew, end plate, 1/4"-20 x 5/8"	1
GM170793 - Screw, and place, 1/4"-20 x 5/8"	1
GM(103319 - Washer, Jack, 1/4"	1
	3 9
Cushion - piston rod	9
Retainer - custion	-:
GM 102640 - Nuz, nex. slotted, 5/8"-18	-
Brdy - valve, with "O" tings	i
Scal - "O" Hag, valve body	4
Scal - "O" Hag, valve body	j
Spring - valve spool	1
Washes receitering, valve spring	- 1
Washer - conteting, valve spring	2
Seal - "O" ring	1
Washet - retainer	ι
Sest - 'O" ring	1
Spring = sody	1
GM1456%9 - Bell, steel, 1/4"	1
Flug - With yet and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o	1
Seal * "O" ring, body plug	!
F)exore - assembly	1
Shud - hall .	i
Stud - Ball	2
GM102649 - Nat. kex., slotted, 5/8"-18	ĩ
Seat - ball	2
Spring - hall seat	ī
Washet - pall stud spring	1
Plug - adjusting	1
Pin - lock, adjusting ping	ï
Shell - hail stud assembly	1
Housing - ball stud shell ,	- 1
Shield - dust	ı
Herainer - dost shield	1
Cap - end	1
- Litting - hitsucarton	ı
	Pin - lock, adjusting ping Shell - hail stud aboli Housing - ball stud aboli Shield - dust Retainer - dust shield Culp - end - Fitting - lubsication

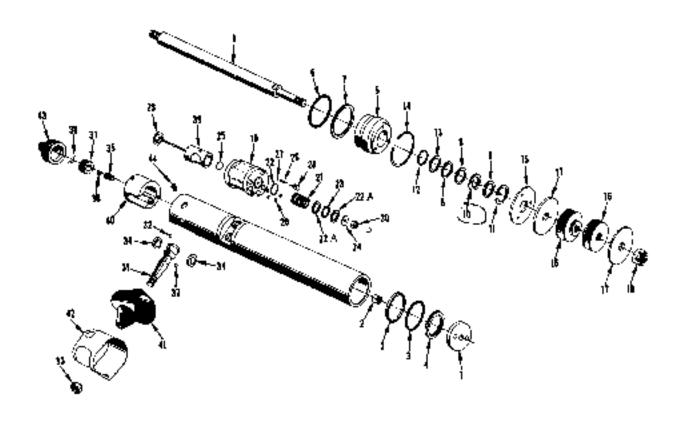


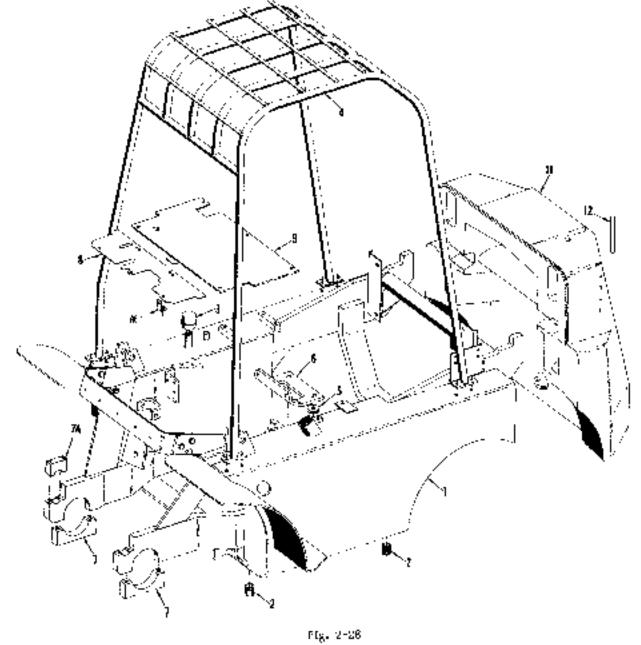
Fig. 2-27

35A534 \$287 Seal Kit Use:

MOBILIET :	-	M.X	<u>41</u>	AND	МΥ	60	L[FT	TRUCKS
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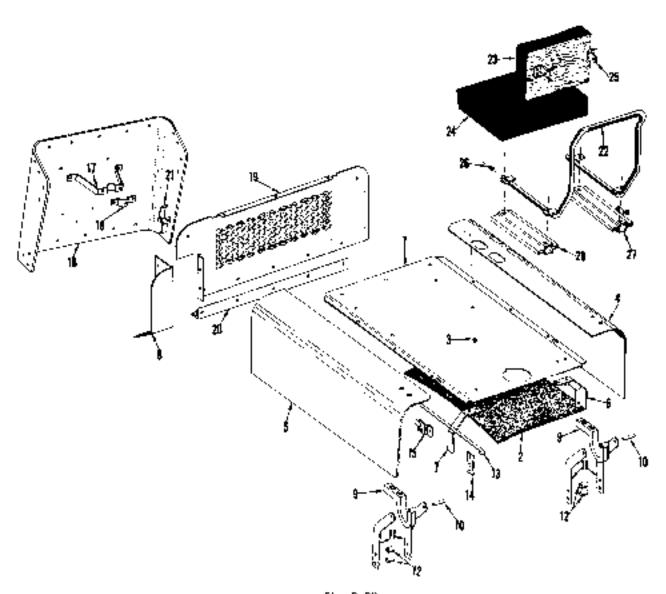
J 2 8	36A ¥925 36A ¥355 36A 40 <b>6</b> 5	FRAMS, OVERHEAD GUARD, H.OOR PLATE AND COUNTERWEIGHT  Frame - main, with fuel and hyd, fluid compartments, MY 46 single drive  Wheels  Frame - main, with fact and hyd, fluid compartment, MY 46 Dual drive	
2	36747219	wheels	
		wheels	
	36 <b>4406</b> 5	"TATALE " DIAJIL. BITC. HILL ALSO EVOL. HULD EXCLEDANT FREEL, NOT AND EXIST ATTALE	ι
	001 2000	Wheels	1
		wheels	i
	36A4278	Frame r main, with fuel and loyd, fluid compartment, MY 60 Dual drive. Wheels	1
e		GM444879 • Plug, pipe, 3/4" drain	2
ō.	36/476	Broather - with dipstick, hydraulie fluid rank	1
1	30A337	Guard - Overhead, assembly, MY 40	ι
	36A 532	(Strayd - diverbead, assembly, MY 60	1
		GM:80123 - Bolt, hcx., 3/8"-1€ x 1-1/d" ead	В
5	35A152	Pad - fabruuka, Iraine to englite	
"	********	50A 942 - Bolt, hex., 8/8"-11 x J-1/2", Nylock	
e	264.452	Personal a ferma to morfor MY 50	
Ģ	86A469	Bracket - frame to engine, MY 40	- :
	99A802	1 Reacket - frame to engine, MY 60	1 2
		GM180191 - Bolt, hex., 1/2"-13 x 3-1/4" had	2
		CM495507 - Nur, Lock, 1/2"-13	2
7	35A 475	Support - differential case to frame, MY 40	2 2
7	35AB01	Support - differential case to frame, MY 60	
		GM271731 - NoNt, hex., 5/87-11 x 4"	4
	i	GM121374 - Waster, Rock, 5/8"	4
74	3542381	Block - clamp, MY 40	2
70	36/12/18/	91cck - clamp, му 60	2 0
	05A58B	Buchling a proof private MY 60	
	'	Bushbig = mast pivot, MY 60	4
8	35A 1839	Plate - floor, Irost, MY 40	i
	35A1815	Plate - Runt, Iront, MY 60	i
	33//1010		
	004.000	GM)B0120 - Bolt, Dex., 3/8" -) 8 x 3/4" cad	
9	36/1831	: Plate - floot, rear, MY 40	1
	36A820	Plate - Ilaar, rear, MY 60	1
		GM180122 - Balr, hex., 3/8"-16 x 1", cad,	
:0	92A488	Clip - floor plate, on front bat	2
	35A501	Safety Walk, on rear floor plate, 12" x 24", MY 40	, ,
	854,502	Safety Walk, on ILSI, fender step, 6" x 8", MY 40	i
	33A 309	Safety Walk, on 1.51. fendet step, 6" x 3", MY 40	
	23A 504	Salety Walk, on frame, R.H. 8" x 12", MY 40	1
	35A 50S	Safety Walk, on frame, 1. II, 8" x 12", MY 40	1
	85/1827	Safety Walk, on floor plate, MY 60	1
	33A830	Safety Walk, on frame, MY 60	
11	35A9145	Counterweight, MY 48	
		GM270148 - Bott, hex., head, 9/4"-16 x 6", MY 40	l i
	<u> </u>	GM446257 - Washer, plain, 13/18", MY 40	
		5M426099 - Nut, hoπ., 9/4"-16, MY 40	
	35/2/13	Gaunterweight = MY 60 ,	1
	33/12/113	Chicology 5 - A - Brown - 5:00 33 - A' 355 50	, ;
		(M27173) - Bolt, hex., 5/8"-11 x 4", MY 60	
		30A2602 - Washot, plain, 21/32", MY 60	
		GM124553 - Nut, Bex., 5/81-11, MY 60	
12	264,752	Pin - hitch	1
		50A2848 - Pin, cell, 3/16" x 1-2/4"	] 1
	Ì	,	
			i
	Į		1
	i		1

Ref. Sie	Part No.	DESCRIPTION	Pcs.
	i	DECAUS AND INSTRUCTION PLATES	
	35/2107	Decal - MOBE -MATIC, on dash	1
	35A382 35A384	Decal - MOBILIFY, on side panels.	2
	05A 626	Plate • instruction, transmission on trol	1
	95/4 (3:7	Flate - Instruction, 'bit congrol	1
	05456	Flate + brake warning	1



MORILIFU - N	MY 40	AND MY	60 12FT	TRUCKS
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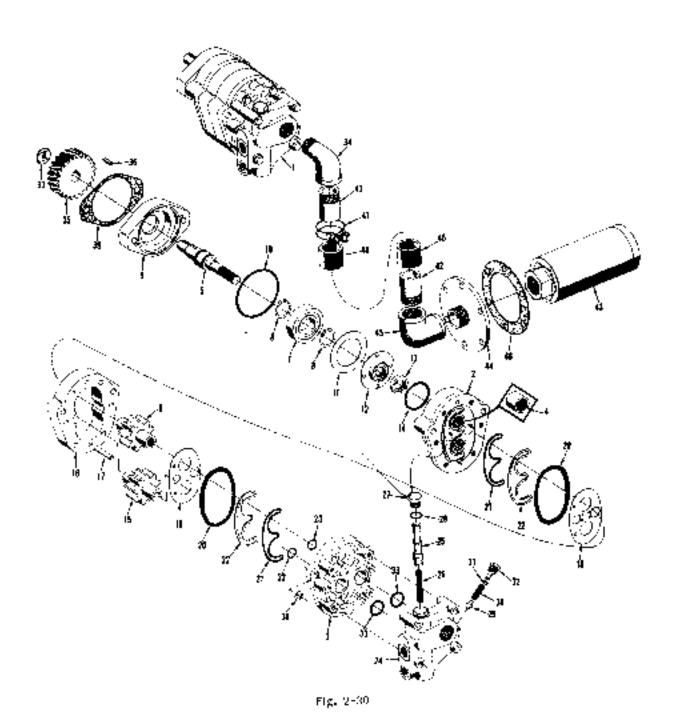
,	Part No	DESCRIPTION	No Per
		HOOD AND STAT	•
	38A3300	I[ned - MY 49	,
-	36A3372	Hood - front secution, MY 60	1
	35A3073	Hand troit section at the	I
	Jakou's	Hood - rear section, MY 60	1
		GM180120 - Belt, hex., 3/8"-16 x 3/4"	7
		GM323377 - Nut, kex., 3/81-16	7
2	35A2287	laculation = center based specien .	1
3	10A 15467	Grammer - rubber, center hood secular	2
4	36/(3325	Fancl - side, right leand, MY 40.	1
	36A33T5	Famel - side, right hand, MY 60	1
5	36A3298	Panet - side, left hand, MY 40	•
-	36A3574	Duest side 166 head MV 46	i
	30433.4	Panel = side, left hand, MY 60 GM190120 - Bolt, hex. 3/87-16 x 3/4"	1
	Į.	5M158120 - Bolt, flext, 5/d - 18 x 3/4"	7
	5	GM120354 - Not, square, 8/8"-16	Ť
		GM120394 - Washot, plain, 13/38"	4
6	35A2178	Support = pear, land_ right hand, MY 40	]
7	35A217#	Support - reat, hond, left hand, MY 40	1
	36A 828	Frame - augle, rear, MY 60	Ī
8	36A3369	Pantel - drafn, MY 40	1
-	36A824	Panel - deste. MY 60	. ;
		Facel - dtain, MY 65	. 2
		GM1203"7 - Nut, hex., 3/8"-16	
	0.54.400	When a board	3
9	33A 499	Finge - Send Fin - bood kinge, 3/8" x 2-1/4"	2
10	35A 499	Fin - Bood Ringe, 3/8" x 2-1/4"	3
15	35A 499	Bracket - hood linge, MY 40	4.
		GM180192 - Aplt, hex., 1/2"-13 x 3-1/2"	4
		GM120372 - Not. hex., 1/2" -1 2	4
12	35A 1484	Spacer - hetween hings brackers, 1-1/9" long, MY 40,	4
13	35A0297	Hed - side panel support, 3/8' x 17-3/2" leng	2
		GM120394 - Washer, plain, 10/39."	2
		GM10373 - Pin, egrinr, 3/32" x 3/4"	2
14	35A2176	Brober - cide condition ( ) 100 - 0 0 100 140 40	2
	3682178	Bracket - side panel red, 1-1/2" x 3-1/2", MY 40.	7
15		Clip = for panel support rad, left hand side, MY 40	:
lä	35A 1814	Strend - frent	1
		GM196124 - Bolt, hex., 3/8"-16 x 1-1/4"	4
		GMI98128 - Bolt, Next. 3/8"-16 x 1-3/4"	1
17	35/481	Support - steering column	1 1
		GM180121 - Rolt, Rex., 3/8"-10 x 7/8"	2
18	05A482	Clamp - steering column to support	ī
		GM180121 - Bolt, hex., 3/8"-18 x 7/8"	2
		GMI20379 - Nut, hox., 3/8"-16	2
19	36//2607	France - Soul Come BIV 45	
10	36A2743	Support - hood, from, MY 40,	1
		Support - head, from, MY 60	1
	357 1759	Covet - hood support, MY 60	
		GM150122 - Role, hex., 3/8"-18 x 1"	. 9
		GMI20377 - Nat, Sex., 3/81-16	9
26	38A 490	Brace - angle, 28" long, MY 40	1 1
	36A2223	Brace - angle, 35-9/8" long, MY 60	l j
21	20A 1907	Catch - on support, for panels	1 2
		GM180018 + Bolt, hex., 1/4" -90 x 1/2"	] 3
		GM120375 - Nut, hex., 1/4"-20	] 2
	85A 1485	Seat - complete with cushiens.	١ ;
	20H 1100	le le de et le compete with custiers	1
	1	Includes the inflowing 7 pairs:	
		GM103025 - Nut. Nex., 5/167-24	
22	35P491	Frame	] ]
23	35P492	Cushion - back lest	
24	35/493	Cushloit - seat	1
25	35P494	Hinge - back test	, 2
26	35P497	Button - end, frame, tail	l 2
	1	Stide - scat frame, right hand	ľi
27	35P49F	I alide . 20am leaning that haun	
27 28	35P49E 35P495	Slide - sear frame, left hand	1



Ptg. 2-29

MOBILIET - MY 40 AND MY 60 LIFT TRUCKS

Includes the following 32 parts.   Body   pump, with bearings   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September	Rei. No	Part No	UESCRIPTION	No. Pcs.
SSA867			MV 40 myrsultiniar missan	
		55.053		_
252710   Cover - pump, with beatings   1   252710   Safe   252710   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   drive   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   252711   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25271   Shaft   25	'	: 304867	Includes the following 32 parts.	
357297   Cover - pump, with beatings   1   357297   Shaff - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft - drive   Shaft -		35P269	Body - purity, with bearings	1
397297   Bearing   needle, Tortington No.   81416	_	252270	Cover - pump, with beatings	1
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect			Bearing r needle. Torrington No. 81416	4
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect			Shaft - drive	1
331279   Ring Searing restator, Trace No. (100-118   2   2   352275   Adapter shearing   3   351277   Seal - "O" ring, adapter, 3-1/4" L.D.   1   359276   Washer thrust, bearing, 2 'L.D 3-3/16" O.T.   1   359276   Washer thrust, bearing, 2 'L.D 3-3/16" O.T.   1   359299   Retuiner with oil seal	-		Gear - drive shah	1
35P275	-		Bearing - ball, drive xialt, New Dep. No. 3206	ı
GMI47103 - Screw, adapter, hex, sucket, No. 8132 x 1"   2   35P276   Seal - "O" ring, adapter, 3-1/4" [.D.   1   35P286   Sealer - thrust, bearing, 2" L.D.   3-3/16" D.D.   1   35P289   Retuiner - with oil seal			Ring - bearing recainer, Truste No. (100-118	2
10   35P277	9	35P274	Adapter - hearing	1 2
12   359296   Mestiner with oil seal	10	350277	Seal - "O" ring, adenter, 3-1/4" (.D.	1
18			Washer - threat hearing, 2° L.D. 3-3/16° O.5	i
10P1772			Retainer - with oil seal	i
Section   Tetrainer,   Pair,   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.   Nat.	13	L	Seat - gil, Chleago Bawhide No. 501391	l i
15   35P286   Seal - "O" ring, retainer, 1-3/4"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-16/16"   1-1			5ctow - retainet, paul kd. thd. cutting, 10-34 x 3/8"	1 4
18   35P274   Gear - filter   17.764" thick   1   1   1   1   1   1   1   1   1	14	35P286	Seal - "O" ring, retainer, 1-3/4" 1.0., 1-30/16" (1.0.	j
18	15	33P274	Gear - filler	. 1
SSP272   Fin - Covert, gear plants, 5/16" x 1-3/4",   3	16	35P271	Plate - gear, 1-7/64" thick	ī
18	17	95P272	Fin - dowel, gear plate, 5/16" x 1-3/4",	2
18			GM179829 - Bolt, Rex. hd., 5/16"-18 x 2-3/4"	6
19   3547382   Plate - wear, pump cover   1   1   2   2   1   359233   Seal - wear phate, outer, rubber   2   2   359231   Aling - backup, wear plate seal, ivory   2   359231   Aling - backup, wear plate seal, ivory   2   2   359231   Aling - backup, wear plate seal, ivory   2   2   359231   Aling - backup, wear plate seal, ivory   2   2   359233   Pistun   1   1   1   1   1   1   1   1   1	16	35₽285	Plate - wear, pump body	1
Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Separation   Sep	-		Plate - wear, pump cover	ı
38F294   Scal - wear plate, Inner, minber   2   38F297   Stal - "O" ring, 5/8" f.D., 3/4" O.D.   2   2   38F297   Stal - "O" ring, 5/8" f.D., 3/4" O.D.   2   2   38F296   Flow Dividet - assembly   1   2   38F296   Flow Dividet - assembly   1   2   38F297   Stal - "O" ring, 5/8" f.D., 3/4" O.D.   2   2   38F298   Flow Dividet - assembly   1   2   38F299   Flow Dividet - assembly   1   38F299   Flow Dividet - assembly   1   38F299   Flow Divided - assembly   1   38F299   Flow - and spring, 3/4"-16 N.F.   1   38F290   Flow - and spring, 3/4"-16 N.F.   1   38F290   Spring - valve, 9 colls   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290   Flow - assembly   1   38F290			Seal - wear plate, outer, subber	2
23			Scal - wear plate, litter, minber	2
Signar			Alog - backup, wear plate scal, ivory	:
26			Seal - "0" ring, 5/8" t.D., 3/4" 0,D,	2
10P1535   Spring = biston, 32 colls   1   27	_		Flow Dividet - assembly	1
10P1630			Piston	1
28			Spring - piston, 32 colis	1
SPF290	_		Flug a piston and spring, 374 - 16 N.F	L
Spring - valve   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Spring   Sp			sears of mag, plug, 179 O.D	1
35F299	-		Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	!
22   95F202   Plug * valve, 1/3"*20 N.F.   1   1   1   1   1   1   1   1   1			Spring - value, y cous	1
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect		_	Plug a value 1/2" soo M E	as req.
GM188226 - Screw, hex socket, 5/16" - 18 x 0"  GM127792 - Elbow, pump inlet, 1" - 90"  10A16952  Goat - hetical, on pump shaft  Key - goat  Washer - look, goar to shaft  GM179846 - Bolt, inclewasher, 5/16" - 15 x 3/4"  10A446 - 30it, pump to housing, 3/8" - 16 x 5 - /4"  Washer - pump bolt  Washer - pump to side cover  Gasker - pump to side cover  GM105478 - Clamp, hose, 1-3/4"  Mipple - pipe, 1" x 2"  Mipple - suction  Flange - mounting, on hyd, cil tank  GM180/21 - Bolt, hox., 3/8" - 16 x 7/8" cad  GM18793 - Elbow, pipe, 1", 90"  Indicate the suction  GM18793 - Elbow, pipe, 1", 90"	-		Sant - "O" ring flow divides to shows	,
GM127792 - Elbow, pump Inlet, 1"-90"  10A 16952  Goar - hetical, on pump shaft  Key - goar  11A 5647  Washer - look, gear to shaft  GM179846 - Bolt, inclewasher, 6/16"-15 x 3/4"  10A 10224  Washer - pump to housing, 3/8"-16 x 5/4"  Washer - pump to side cover  Gasker - pump to side cover  GM105478 - Clamp, hose, 1-3/4"  Winple - pipe, 1" x 2"  Minple - pipe, 1" x 2"  GM160)21 - Bolt, hex., 3/8"-16 x 7/8" cad  GM15793 - Elbow, pipe, 1", 90"  Investigation of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe of the pipe o			GM798226 r Serence line's stocket   Set 27 - 12 x 10"	2
Gear - Betical, on pulse shall  10A 5648  Key - gear  Washer - look, gear to shall  6M179846 - Bolt, Inclewasher, 6/16'-13 x 3/4'  50A 446 - Bolt, pulse to housing, 3/8"-18 x 5-/4"  20	34		GM12779) • filtow, numerialer 07-90°	1
10A 5648		108 16959	Gost - helical on mater deaft	i
### Washer - look, gear to shaft  ### GM179846 - Bolt, Inclowasher, 8/16'-18 x 3/4'  #### 50A446 - Bolt, pump to housing, 3/8"-18 x 5/4"  ###################################	96	–	Key - gcar	i
### ##################################	07	11A 564T	Washer - look, gear to shaft	•
### ##################################			GM17984G - Bolt, Inclowaster, 6/16*-15 x 3/4*	1
### 100-10224   Washer - pump bott			50A 446 - Bolt, pump to housing, 3/8"-18 x 5-1/4"	2
30	36	10A 20224	Washer = putrip bett	2
40 45A 1985 Hose - spetion strainet to pulmp 1  GM103478 - Clamp, hese, 1-3/4" 4  20 20A 2324 Nipple - pipe, 1" x 2" 2  43 35A 698 Strainet - spetion 4  44 36A 690 Flange - mounting, on hyd, cil tank 1  GM(180) 21 - Bolt, hex., 3/8" -16 x 7/8" cad. 6  GM127793 - Elbow, pipe, 1", 900 1	39	35A 705	Gasker - pump to side cover	1
### GM103478 - Clamp, hese, 1-3/4"   44  #################################	40	754 LOSS	HOSE = specion strainer to outro	1
42 8.6A.2324 Nipple - pipe, 1" x 2"  43 35A.698 Strainer - suction  44 36A.690 Flange - mounting, on hyd, cil tank  GM(180)21 - Bolt, hex., 9/8" -16 x 7/8" cad.  45 GM127793 - Elbow, pipe, 1", 90"			GM105478 + Clamp, ηcse, 1-3/4"	4
15			Nipple - pipe, 1" x 2"	2
14 36A69) Flange - incointing, on hyd, oil tank 1 GM380121 - Bolt, hex., 9/8" -16 x 7/8" cad. 6 GM35793 - Elbow, pipe, 1", 90°			Strainer - succion	ι
GM(180)21 - Bolt, hex., 9/8"-16 x 7/8" cad. 6 GM(18793 - Elbow, pipe, 1", 90" 1	14	36A69)	Flange - racounting, on hyd, cil rank	1
15   GM137793 + Elbow, pipe, 1", 90"			[ GM380121 - Bolt. hex., 9/8" -16 x 7/8" cad.	a
Gasket - flange to tank			GM15793 - Elbow, ripe, 1", 90°	ι
	at .	39A700	Gasket - Plange to Tapk	. 1
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d. No	Pari No	DESCRIPTION	No. Pcs
		i	
		MY 60 RYDRAULIC 20MP	
1	35A 666	Pump - hydraulic, with flow Civide:	:
-		Includes the following 28 parts	•
0	, 485599 	Rody - pump, with historings	1
3	85F300	Cover r pomp, with bearings	3
1	35-297	Rearing - needle, Terringred No. 81419	4
5	427301	Shaft - drive, with granders, and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	:
6	357265	Rotainer - with oil scal	1
î	1991772	Seat - nfl, Objego Rawhide No. 501391	]
8	357286	Seat - Tof ring, retained 1 8/4" 1.D., 1-15/16" O.D.	i
9	257271	Gear - idler	;
30	357211	Mate = gest, 2-9/64" thick	1
11	359072	Pin * dowel, gear plate, 5/167 x 1/3/4"	2
		GM179809 - Bolt , hex., head, 6/16"-18 x 2-2/4"	6
72	307285	Flate - wear, putting body	1
13	352362	Plate - wear, pump cover	1
14	95F2E9	Scall - wear plate, outer, mibber	8
15	957294	Soat - What plate, inner, tubber	2
10 17	057061	Ring - backup, wear plate seal, ivory	2
18	35P287 35P295	Seal - "O" ring, 5/8" (.1)., 8 '4" O.D., Flow Divider, 556 phby	1
19	35F289 35P289	Piston	1
20	10P1592	Spifag - piston, 32 coils	1
21	10P1588	91ng - piston and strong, 3/47-36 K.F.	í
2:0	05P094	Seal - "O" ring, ping 7/9" Ω,";	i
29	33P290	Valve	1
84	35P291	Spring - valve, 9 moils	1
25	35P096	Shern - valve spring	A\$ 250
26	337292	Plug - valve, 1/2"-20 N.F.	1
27	35P298	Seal - "O" ring. How divider to huma	S
		GM198226 - Serew, hex., socket, 5/167-18 x 27 GM197792 - 905ow, quamp falet, 1", 90°	4
28		GM127792 - 125ow, quarp fallet, 2", 90"	!
29	የስለጸD4	Goupling - hyd. pump sheft to fan pulkey	1 3
80	36A80C	Support - layd, agamp	1
		GM169295 - Bošt, pump to support, hox. head. 3/8"-16 x 4-1/2"	2
		(5M120377 - Nut, hex., 3-51-16, cad,	2
31	10.4 1 : 5 43	GM273546 - Beit, fiext, 5/8"-11 x 1-1/4" ced	3 2
32	356 1449	Hose - suction, stierner to pump	ί
33		GM103473 • Clamp, hose, 1-7/8"	4
34	8582584	Nipple - pips, 1" x 2"	-
35	SDA 699	Straiger - section.	
36	36A 639	Flange - mounting, on hyd. oil tank	:
		GM180121 - Belt, hex., 2:8"-16 x 7/3"	6
37		GM144328 - 31bow, pipe, 17 K.P.Y., 450	:
38	85A70D	Gasket - flange to tank	1
			1

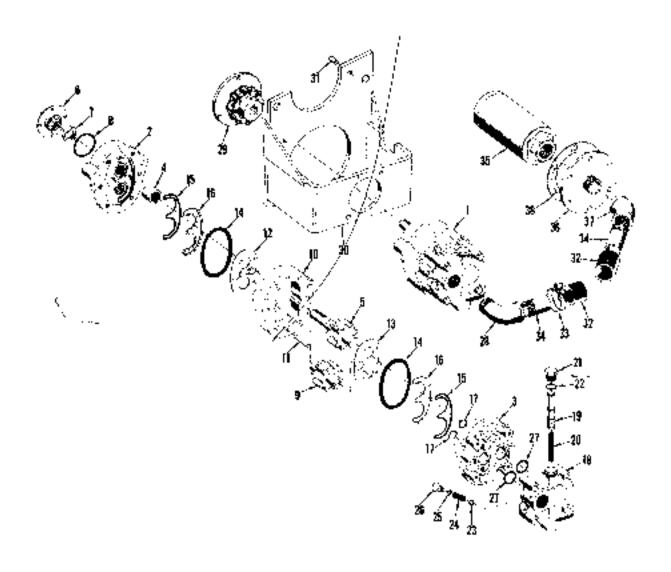


Fig. 2-30A

340011 FEB.	7 4 71	4.0	1.31.00	h F 31		******************	
MODILIFE	• M Y	a u	$A \times B$	MY	- 60 III	TRUCKS	

Kel. No.	Pari No.	DESCRIPTION	No Pes
		CONTROL VALVE	
	35A3033	Valve - control, standard, MY 60	ι
1	38A367B	Valve - control, standard, M ! 40	Ĺ
	35A3G32	Valve - control, one spoot aux. special	ı
<u> </u>	38A 2034	Valve - control, two spoul any, special	
2 3	159660 159656	Scal - spool	2 05 4
4	1001 <del>6</del> 32	Spring spublicentering and spring	ler 2 ler 2
š	15P654	Collar - stop, centering spring	
6	158652	Holt - stop collat	1 07 2
7	10P1R50	Washer - look, stop collar bolt	1 or 2
6	150655	Disk - stop collar	
9	15P657	Ring - snzp, stap dish	1 or 2
10 ; 11	15P668 35P215	Joseph - rubber, speed opening   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball check   Plug - ball	: or 2
12	JOA 6329	"O" Ring - hait check plug	i
13	35P218	Planger - cleak and celief valve	2
14	33/2/16	Seat - relief valve	ī
15	103 12072	TO" Ring - relief valve seat	I
16	35P221	Spring - cellef	;
ΙΤ 18	35P222 35P233	Guide - relief spring  Ball - reifel guide	] 1
19	10A 16489	Washer - spacer, relief spring	Var.
19A	10A16490	Shim • relsef spring	Var.
20	352220	Cap - telief spring	1
21	10A16487	Gasket - tellef syting cay	1
<u>12</u> 23	257217 957225	*Flog - port *"O" Ring - port plug	1
69	361220	*NOTE: Used with standard (35A 3078) valve.	-
		14010. Cold approved (0010010)	
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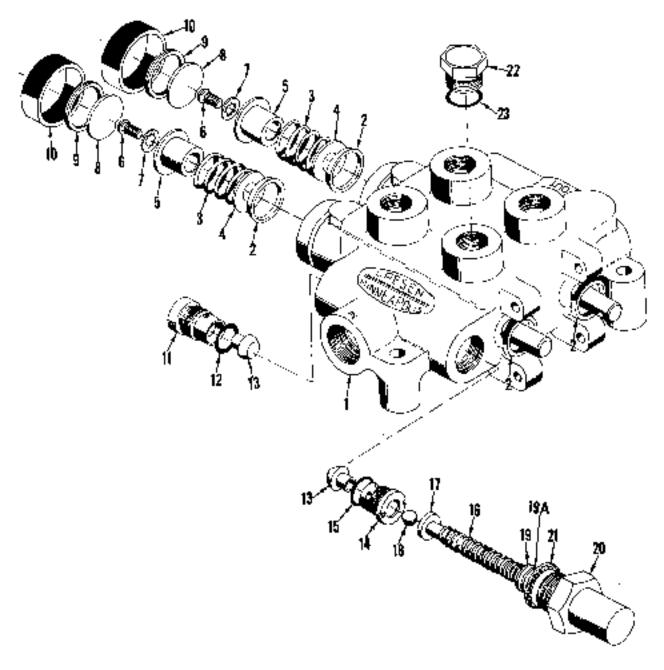
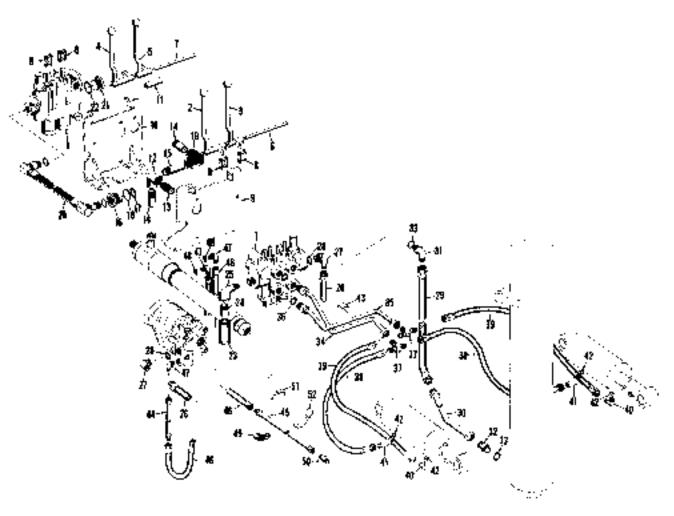


Fig. 2-31

GC N 1	Fari No	DESCRIPTION	No. Pes.
		H Y DRÁ OLTO CONTROL VALVE	
		Valve - control, see page 68 for complete listing	
'		GM180134 - Holf, hex., 3/8" -16 x 2-1/3"	L
		GM1203TT - Nut, hex., 3/8"-18	2
2	2643321	Lever - band control, inner, standard	, 1
	2649302	Lever - hand control, onter, standard ,	í
4	36A332B	Lever - band rented, sux, rear, innet	i
5	36A38U7	Lever - hand control, aux. rear, Outer	i
ë	30A1257	Shaft * band levers, 2/9" x 6-7/10"	ī
7	25A (257	Shaft - aux, levers, 3/6" x 6-7/16".	τ
		[ I5M103362 - Pin, coster, 1/16" x 3/4"	2
B	35AB46	Link - solitor, lievor to valve spool	A.R.
g	26A3223	Support - valve, on frame	1
()	3643228	Support - aux. valve, reat	1
]	15A 18908	Spacer = sinyle aux, valve	ι
2	35A3719	Ziticw - valve, side opties 50A 946 - Nipple, pipe, S/4T x 1-3/4"	ı
ล		50Λ 946 - Nipple, pipe, S/4T x 1-3/4"	:
4		50A2480 - Nipple, pipe, 3/4" x 2"	ì
5		50A946 - Nipple, pipe, 8/4" x 3-3/4"	1
G .	85A3120	Plug - adopter, 7/8"-14 to J-2/8"-12	1
7		50A 1806 - Ring, quad	1
8	3548117	Gasket + adapter plug	1
9	10.4.14720	Albow - rubber, connecting valves	1
r	35/3010	Hose - connecting valves	
1	3543118	GM105475 - Clamp, hose, 1-3/8"	2
8	\$543119	Plug - hex, head, 1-3/9"-12	1
5 3	55A3039	Gasket - hext head plug, copper	<u> </u>
,	3503049	Hose - valve to tank	1
4		GM105475 - Glamp, hose, 1-378"	2
5		50/2330 - Nipple, pipe, 3/4" x 1-3/8"	1
	33A4C76	Tube - hyd, pump hase to valve, MY EC.	1
ic.	855 (289	Hose - Hyd. pump to valve, MY 40	j
7	(-111-1200	GM9410978 - Ribuw, hose, 7/8'-14, 90"	2
E	10A 625 8	"Of Ring - base allow	2
9	86A 1091	Hose - valve to lift cylinder	
τ	35A 1292	Tube - base to Hit cylinder, MY 40	i
	35/8719	Tube - valve Lose to lift cylinder, MY 60	1
ı		GM3410978 - Elbaw, valve port, 7/9"-14	2
2		6 GM9410204 - Connector, Eft evilider, 7/87*14	ı
3	10A ( <b>62</b> 56	Seal - "O" rbig, albuw and connector	5
4	857 1293	Tube - control valve port "A" ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ı
h	33A 1294	Tube - control valve port "B"	1
n	10/41/02/66	"O" Zing - control valve tube	2
7	33A1297	Tee - with critine, valve take	2
,		GM444698 - Plug. pipe, 1/81 N.P.T.	2
٤.	35/1295	Hose • pert 7AF take to tilt cylinder	2
9	35A1884	Store - port 18" (time to this cylinder - policy out of and	2
0		Flose - port "B" take to tilt dylinder	2
: D	10016000	Company that a proper tiles.	2
:D .3	10A16405 10A16577	O" Ring - tilt cylinder elbew	4
	HATOS17	Otip - valve cubos GM180024 - Boft, bus. 1/4"-20 x 1-1/4"	1
	1	GM120376 - Nut, nex., 1/4"-30	¦
4	35/1296	Tube - hyd, pump to stooring booster, MY 40.	1
-	95A1452	Tube - hyd. pump to steering booster, MY 60.	ľ
5	35A1588	Tithe - speeding booster to hyd. oil tank, MY 40	†
	95A3506	Tube - steering booster to Lyd. oil tank, MY 40	l i

MORILIET - M	Y 40	AND	M Y	60	I I =	TRUCKS	
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Ref. No.	Pari No.	DESCRIPTION	No Pre
	<u> </u>	HYDRAUDIC CONTROL VALVE (Could)	 
46 47	35A 1287	Hase * tube to booster	2
48	10A 16405	Seal - "O" ring, pump and hooster ellipse	9
49	RTS86D	GM180171 - Bolt, hex., 1/2"-10 x 3/4"	4 2
50		GM9402708 - Connector, tube to hyd. tank. 1/4" NPY, 6/16"-18	1
51	t0A16576	Glamp - tube to task GM190081 - Bolt, bex., 5/16*-18 x 1-7/4* GM120476 - Nos, hex., 5/18*-18	
25	85A1438	Uracket * tube clamp  GM190077 - Bolt, hex., 5/16"-18 x 3/4"  GM190376 * Nut, hex., 5/16"-18  *Hose - drain  *50A1156 - Fitting, hose, 1/4"-18  *GM119931 - Bushing, reducer, 3/8" to 1/4"  *GM145616 - Clamp, hose, 5/8"	1   7   1   t
	i	*NOTE: For use with Simplex Mast only, see cliant on page 65.	



Hig. 2-32

Ref. No.	Part No.	DESCRIPTION	Na. Pra
		TILT GYLINDER	
1	35 <b>A274</b> 6	Cylinder - assembly	2
	25/465	Includes the following 19 parts:	2
2	356485 256306	Shell - assembly	2
4	35F313	Pisen: - balf	2
6	351930	Sual - "O" ring, piston to tod	2
в	359307	Alder - Dylon, piston	4
Ť	35 <b>H</b> 966	Packing - assembly	2
е	35P313	Rod - piston, 18-6/8" long	2
'è	35P305	Nut - piston red	2
10	35P208	9±tainer - piston rod seals	2
11 12	35P314 35P315	Bushing - piston red retainer	2
13	85P204	Packing - assembly, regainer bushing.	2
14	35P308	Seal - "O" sing, retainet to outer shell	2
15	35P316	Hing = back-up, switch retainer seal	2
16	35/210	Washer - Chresded, with nyton police	2
17	35P135	Pellet aylon	2
18	95P209	Ring - wiper, piston rad	8
19	35P21L	Sind piston rod, with bushing	3
20	35 <b>P21</b> 2	Rushing = pistum red end, also bead end,	4 2
		Bolt - hex. head, 3/8"+24 x t-1/2" Nut, hex., 8/8"-24	2
23	364.706	Fin - with end plate, cyl. to france, 1-1/4" x 3"	2
	(2.12.)	GM191758 - Flating, grease, 1/8"-27 straight	ž
		GM191758 - Flating, grease, 1/8"-27 straight GM180077 - Bott, bext., 5/16"-18 x 3/4"	Ž.
22	964750	Pin - tilt cylinder, 2-1/4" x 2-3/4"	2
		REEL AND BOSES	
	35 <b>A 146</b> 9	Reel - bose, left band	1
	3543244	Root - hrse, right band	1
		GM180173 - Bott, Rex., 1/2"-13 x 1"	2 0: 4
	\$5A 1482	Block - junction	1 of 8
	4540103	GM189128 - Bolt, hex., 3/8"-15 x 1-3/4",,	J 0F 3
	35A3131 96A318U	Clip + base, on the bay. Hese - real to junction box., 134" long.	1 or 2 2 or 4
	35A37E3	Hose - real to junction box, 138" for	
	3543184	Hose - reel to junction box, 156" long	2 Gr 4
	85A1474	Hose - roof to valve, 80" long	2 ot 4
	35A 1477	Hose - reet to valve, 110" tong,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 nr 4
	35 <u>A</u> 1479	Hose - real to valve, 124" long	3 ot 4
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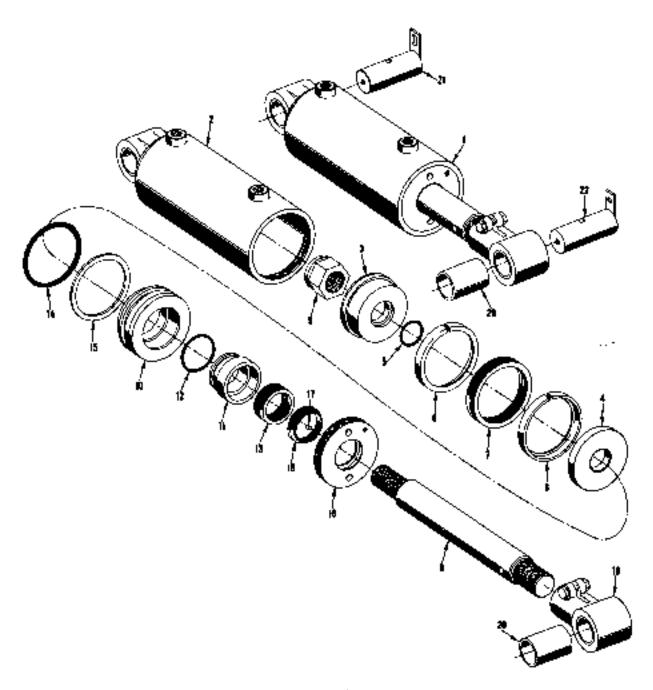


Fig. 2-23

MOSILIET - MY 40 100 DAY 60 LIFT TRICKS					
let No	Fan No.	DESCRIPTION	Ko Pea		
		SIMPLEX LIFT CLYLINDER			
1	-1	Cylinder = sessionally, see Chart on pages 84-85	:		
2		#Shell	1		
ā		*Plange:			
4	35P486	Belaiter - piston			
5	23F1E0	Ptp - roll, tetamost to plunger			
Ĉ		*Spacer = plunger to shelf - c			
ý –	35P485	Piston - cylinder ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
8	SSF176	Packing - pigron bigainer, assembly	- 1		
3	33P178	V-riags			
30	35F177	Parking - set,	I		
11	\$5P179	Adappor - Sematic			
212	33F174	Feat - "O" ting, retainer to pister,			
16	3.7173	Ring - back-up, retainer seal			
1.	938179	Ring - snap, pusion so coulde.			
1.5	339147	Spring * mylinder /pnd, a, a, a, a, a, a, a, a, a, a, a, a, a,			
iń.	\$52374	Masher - spud spains			
27	239373	Spacer = spad syminy			
:R	269172	tertainer - phusger, eProviend			
19 30	309191 232190	Sor - "O" rang retainer to shell			
25	352150	Ring - wager, plunger to reteined account of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of			
	007497	Pin - dewolf, spud and of cylender	i		
	01:47.	*NOTE: Shell, Plunger and Spaner must be ordered by size, see chan for			
		complete cyllinder on page 8 1-8 5.			
		3300 505 370020 50 13 25 5 5 5			
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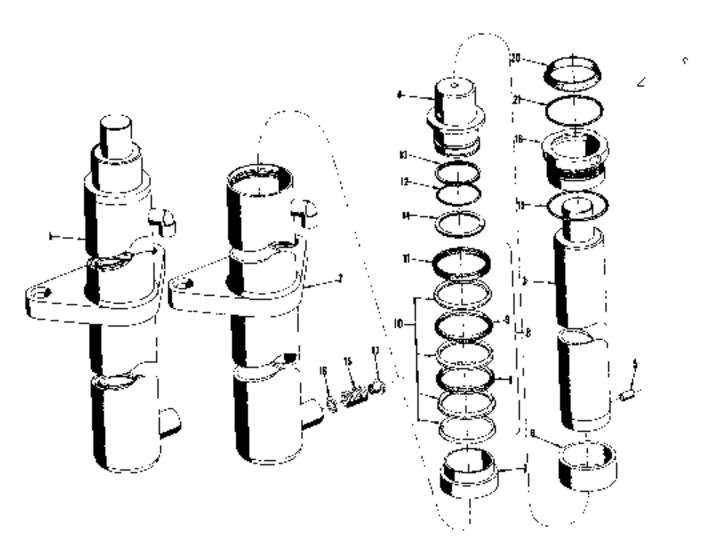
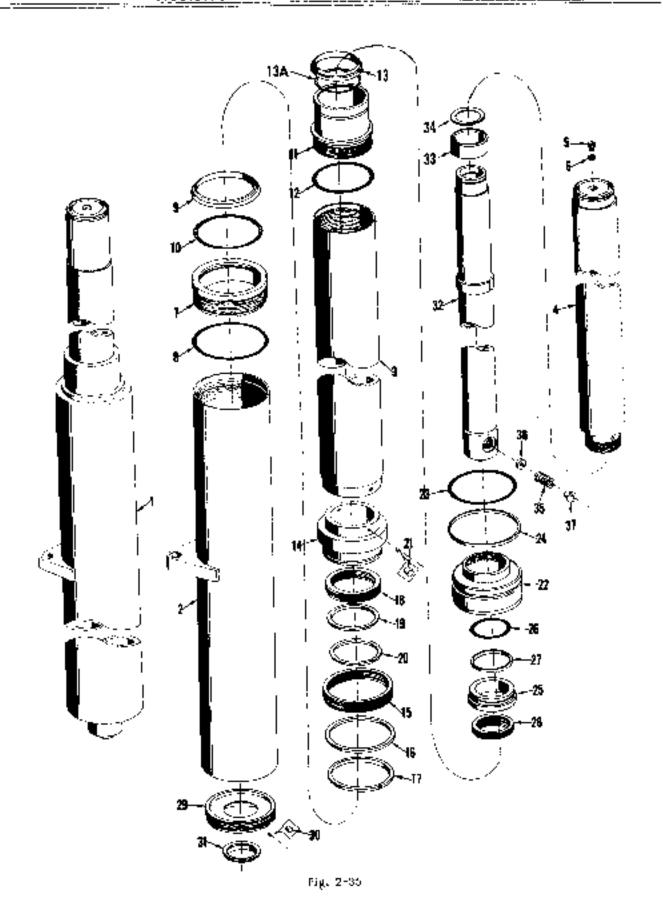


Fig. 0-04

MODILIET	- WY	4.9	AND	34 Y	as n	5.5 E.W.	TORICVE
MICHAEL IN I	v. I	<b>4</b> 0	$\Delta \Delta M$	201 1	คม	2111	T KUUL N D

Ref. No	Part No	DESCRIPTION	No Pes.
		DOPLEX LIFT CYLINDER	
ı		Cylinder: litt, see chart page R4	ı
0		*Shell,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
3		*Tube - intermediate stage	1
4		**Tube * intermediate stage, inner	1
õ	95F163	5 стен - 1ппет тобе place. n/16°-24 x 8/8°	
6	252164	Seal - tube plate screw assessed as the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the season of the seas	
7 8	357480 357152	Retainer - outer shell	
9	35P481	Seal = "O" ring, retainer	1
10	80F150	Spring + carter, wither riby, 4-9/30"	i
17	3512483	Spring - garter, wiper ring, 4-9/30"	ī
12	35F482	Ring felt retainer,, ,,,,,,,,,,,,,,,,,,,,,,,,,	1
13	35P484	Ring - wiper, retainer	1
154	35F476	Spring righter, wiper ting production and accompany to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	3
14	33/478	Fistori	1
16	35P475	Packing - piston, outer	]
17	35P157	Hing - knap, nistixa packing	,
18 29	05P477 35P153	Faceling piston, inner	
21	350479	Pla = roll, piston	ė
00	352474	ketainer - pistor	1
23	35612	Seal - "D" ting, pistor tetainer	
24	059764	Ridg • back-up, "O" ring	1
25	856470	Aughing - pistor refarmer	1
26	35F160	5cal - "O" drug bushing to totainet	1
27	352161	Ring - bankrup, bushing "O" ring	1
25	3594 <b>7</b> 8	Packing - reminer busing	1
29 30	35/471 :	Washer - throaded, piston retainer GM135682 - Sorew, set, socket, 1/3"-28 x 1"	-
37	55P136	Ving - wiper, plunger to threaded waiter	ī
32		*Plunger - cylincon,	1
43	65P140	Engling - plunger to inner tabe	1
34	კეP1 (%	Ning - knap, plunger bishing	ī
35	330147	Spring - glunger, piston end	1
36 27	35P149	Washer - pharger spring	1
27	95P148 95P166	Specifically plunger spaing 197165 x 374"	i
	301.00	*NOTE: Shell, tubes and plunger must be ordered by size, see chart for	-
		complete cylinder on page 84	
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	i		
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:: No	Part No.	DESCRIPTION	No. Per
ļ		MA 46 DOBPEX ODISCHA.	
1		Ref) - ourse assembly, see chart on page 84	ı
2		Rail - inner assembly, see chart on page 84	1
8	D476		6
4		Shae - mast 50A648 - Sarew, bex, socket, 3/9"-16 x 3/4"	12
5 I	10467	Shirti - mast shoo	
ĉ	35A 708	Roller - Inast	10
7	D3: 7	Roating - mast rollet	10
٤		50A577 - Ring, snap, 3-5/22″ L.D	10
-9 [		50A 57S - Ping, snap, 1-3/9° [.D	i0
10	D297	Pin - with Bange, most toller	10
EI		50A 647 - Serew, flat head, bex, speker, 1/2"-18 x 7/6"	5.4
12		GM138200 - Serow, hox. seeket, $1/2^n$ -10 x $1^n$	10
		GM103029 - Washer, Took, 1/2"	16
13		Cardage - see chart on page 84	1
14	38A 622	Roller - thrust, Roller Brg, Corp. 74444	4
: 5	35A 633	Pin - rhius tollor, 3/4" x U-98/39"	4
1ő		Chain is see chart on page	
17	35A 934	Anche - chain, 3"	2
18	304997	Pin - chain anchor, S/16" x 1-1/8"	2
ļ.		GM167986 - Pin. copter, 3/10" x 1-1/4"	2
19	354,935	Anchor - chain	
20 '	35A 644	Fin - chain anchor, 5/8″ x 2″	54 64 E1
71 j	35A26	Rod - chain anchor, 3/4" x 12"	2
		50A197 - Nut, spherical, anchor red	
		GM219795 - Nut, Next Jam 3/4"-16	
22		*Cylinder - assembly, tift, see chart on page 64	
		•NOTA: See page 49 for communication ports.	
20	05A31	Seppurt - dylinder, upper	1
24		Sepport - cylinder, uppor	. 3
Ωā	35A328%	Sheave - chafu .,	
96	36/428	Support - sheave	
27		SDA 245 - Ring, snop, cylinder support	
		GM103584 - Seriew, Set. Bex, sprket, 5/16"-15 x 3/4"	
28	D322	Beading - ball, sheave support accounting	
68	D316	Ring - \$757	
30 l	03813	Ring - snap, spirolox, ball beaung	
21	05A 603	Pin - für, cylinder, 1-1/4" x J 1/6"	2
		50A2825 - Pin, mil, 1/4" x 1-1/8"	
		GM111096 Fitting, greese, 1/87	
92	364,692	Fin - with plate, pure rail piper	2
-		Fin - with plate, outer rail pivot GM271285 - Fitting, gerase, 1/3°, 80°	1 2
		634183077 - Bolt, Bex, Ed. 5/16"-18 x 3/4"	0
		GNI120214 - Washer, look, 6/16"	
33	35A 558	Sustring - pivet pin, 1-1/2" J.D., 1-1/4" long	
34		Forth - assembly, see charr on page 84	1 1
33	33A 668	Pitt - fork stop, 5/8" x 2-1/16", Glack Equip, Co. No. 756447,	
36	355 660	Love: - fork stop pin, Clark Eggip. Co. No. 950446	
		SCASBO2 - 950, cell, 3/16" x 1"	. 2
37	354.667	Spring - stop pin, 1-8/897 long	
		GM100378 - Net, tiex., 1/2"-13	
24	36A 649		
		<sup>1</sup> Back Rest - Doad	
		GM120384 - Washer, took , 1/2"	
	3(A215)	Olip - light wire holding, on coast	
96	25A0310	Disch - Not, outer tale , p	
39	i 200010010	GM871546 - Boh, hex., 5/67-18 x 1-1/47	_
	I	" Attachment Anth Scott and Anton and Assessment Statement of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the Assessment of the	il .

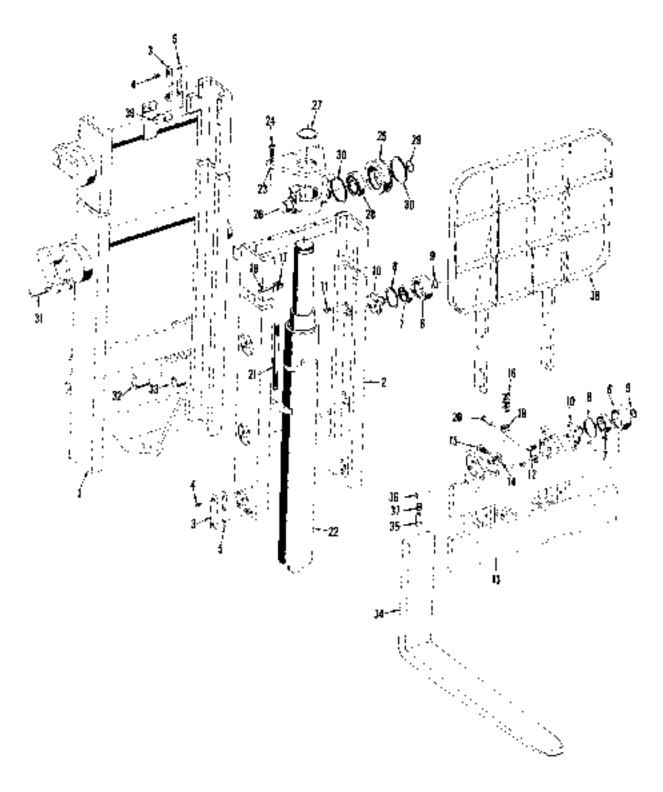
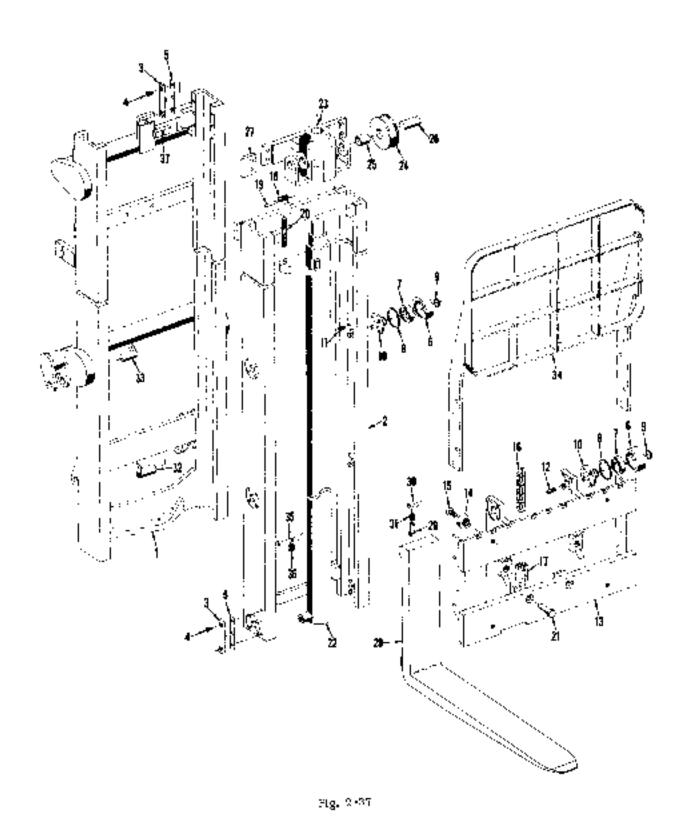


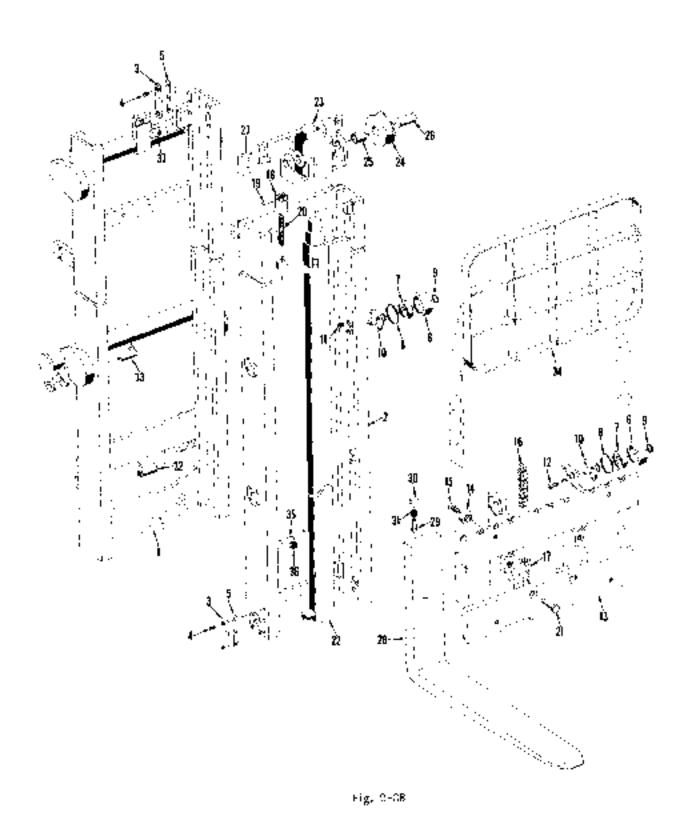
Fig. 8-36

er No.	Patri No	DESCRIPTION	No Pra
		MY 40 SIMM FX UPSTORE	
1		Rapl - puter assembly, see obart on page 94	1
2		Bail - Inner assembly, see chart on page 81	í
E	D476	Show a mark	ô
	D470	Shoe - mast SOA 648 - Serew, hex., skeket, 3/8"-16 x 3/4"	
4		509,645 - Screw, next, secker, 3/8 - 16 x 3/4	13
- 5	71467	Shim - mast shoe	12
ő	35A 708	Roller - mass	10
7	D217	Bearing = chast collect	10
8 '		50A 577 - Rang, snap, mast bearing, 3-5/32° (,00,	1ñ
9 ,		50A578 - Aing, snap, mast bearing, 1-3/6" LD.	10
10	0-297	Pin - with flange, most rollers 58A 647 - Serow, flat head, hive, speket, 1/2"-12 x 7/3"	10
11		58A 647 - Serow, flat head, hext, shoket, 1/2"-18 x 9/3"	24
12		GM138290 · Serew, hex. sucket, 1/2* · 13 x ?	16
		GM103359 - Washer, hxk, 1/2"	16
13		Charlage - see chart on page 68,	2
14	30A 622	Soller - thrust, Ruller Rog. Corp. #74444	4
- 1		(3)10) - (3)(3), h())() Hig. (.)(), if 74444	-
15	35 <b>A 4</b> 03	Pin - thrust teller, 3/4" x 1-22/32"	4
10		Chain - see chart on page 76	2
17	36A933	Ancher - chain, lower	2
18	35A 934	Anchor - chain, upper	2
18	35A 837	Fjor r chaîn attehors, 5/15" x 1-1/8" ,,	4
- 1		GM103372 - Pin, corter, 3/32" x 1/2"	6
20	35A200	Stud - chain anchot, 3/4"-20"	2
21	95A G44	Pin - anchor, 5/2" x 2"	8
	*******	30A 797 - Net, spherical	2
22		"Cylinder - assembly, upright, see chart on page 84,,,,,,,,,,,,,,	2
~			-
. !		NOTE: 506 page 74 for common consciously yarts,	
2.2	36A 224	Head + piston	I
		GM102586 - Secow, ser, piston head, 5/16"-18 x 1"	7
21 1	35A 95	Sheave - piston head	2 2
25	358417	Bizshing - Alenvo	
26	35A96	Pin - Sheave, 1-1/2" x 3-1/6"	2
ŀ		50A2826 - Pin, roll, 1/4" x 1-1/4"	2
- 1	ı	GM271986 - Fitting, grease, 1/8"	2
27	35A920 I	Guide - platen head, 2" x 3"	2
٠. ا	0021000	GM130149 - Belt, hex., 7/10*-14 x 1-1/2*	4
		CAMPAGENT - Cor Nov. 1/10/14/14	-
		GM271501 - Not. hex. 7/164-14	4
28		Fork - Lifting, see chart on page 36	2
29	35A C68	Pin - fork stop	2
30	35A 669	Levet - πορ ρια	2
31	35A 667	Spring - stop pin	2
		50A2832 - P[n, rell, stop pin, 3/16" x 1"	2
32	36A750	Pin - assembly, outer rail plyot	2
		GM180077 - Bolt, kdx., S/16"-18 x 3/4"	2
38	36A706	PIR - assembly, til: cylinde:	2
ا "	305,100	GM380073 - Bolt, bax., 5/16" -18 x 1/2"	2
		changes to he and some stand	
		GM108579 - Washer, lock, 5/16"	4
	!	GM271285 - Fitting, grease, 1/5"	4
34	*******	Back Rest - assembly, sup chats on page 86	1
		GM180176 - Bolt, Next head, 1/2" •13 x 1=3/8"	8
	]	GM120378 - Nut, hox., 1/2*-18	6
	1	GM120384 - Wasker, took, 1/24	В
35	35A1463	Veut = strap	1
		GM100053 • Screw, 1/4"-20 x 1-1/4"	3
	ı.		
- 1	ነ	GM120375 - Net, hex., 1/4"-20	1
		GM120365 • Washer, lock, 1/4"	2
	3581464	Space:	2
26			
	33A3573	Block - stop, outer sail	ı
26 37		Block - stop, outer sail	1



81

e2, No	Pari No	DESCRIPTION	No. Pre
		MY 60 SIMPLEX OPRIGET	
1		Rail - outer assembly, see chart on page 85	1
ē,		Raul - inner assembly, see chart on page 35	1
3	D476	Shoe - mast	6
4		50A 648 · Screw, hex. socket, 3/81-16 x 3/4"	12
5	D467	Shian - mast shoo	12
e	35A 708	Roller - mast	10
7	D317	Bearing - mast roller , , , , , , , , , , , , , , , , , , ,	: 9
В		56A5Y7 - King, knap, mast bearing	10
9		SGA S78 - Ring, snap, mast bearing	10
ņ	D-297	Fig with flange, most rollers accommended to the second and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation and the second accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accomme	10
1		50A647 - Strew, flat head, bex. sucket, 1/2" 13 x 7/8",	24
?		GM 138090 - 5e/ew, hox. socket, 1/2*-:3 x 1	16
5	3 <b>6</b> A2015	Carriage - as-embly, 36"	ı
4	85A 622	Roller - thmist, Roller Brg, Corp. #74444	4
5	86A <i>8</i> 24	Pin - thrust soller, 2/4" x 1-29/92"	4
6 !		Chain see chart on page 95	
7	85A <b>72</b> 5	Another - chain, lewer,	2
3 1	25A 196	Anchor - chain, upper parameters, and provide the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	2
ê l	85A 728	Pin - chain sections, 1-5/16" x 2"	4
. i		G M103372 - Pln, correr, 3/32" x 1/2"	8
?	35A100	Stud - chain anchot, 3/4"-10 x 3-1/4"	2
,	95A708	Pin - enchor, 7/87 x 3-3/16"	2
<u>.</u>		h(A 197 - Not, sphorteal	2
-		*Cylinder - assembly, unright a see chart on page 45	'
:	3EA1877	*NOTE: See page 74 for common component parts.	- 1
.	9EM1011		i
4 I	35/495	Sheave - piston head.	ģ
3	354417	Bushing - steave	2
š	35 <b>A 96</b>	Pin - sheave, 1-1/2" x 3-1/2"	2
ľΙ	i.on sa	50AB626 - Psq. toll, 1/4" x 1-1/4"	2
		GM271285 * Fitting, grease, 1/6*	ń
, I	25A (979	Gulsle - pisron head	
·		GM271848 - Bolt, bux., E/8"-18 x 1-3/4"	- 4
		@MI38987 - Screw, cap, Nex, socket, 5/8"-11 x 2"	2
s I		Fork, Ithing, assembly, see chart on page 85	õ
9	35A 668	Din - Cook stop	- 5
0	33A <b>669</b>	Lever - stop pic.	2
Ι '	35A 667	Spring - stop gan	2
		59A2B32 - Pie, rot), step pin, 3/16" x t" ,	2
-	3150 T50	Pfn - assombly, outer rail plyor	2
- 1		GM180377 - Bolt. hex., 5/16*-18 x 3/4*	2
۹ I	1851480	Pin - assembly, roll nylinder	2
- 1		GM179795 - Bolt. hex.: 1/4"-20 x 3/4"	2
!		GM971085 - Fitting, grease, 1/87	4
4	<b>.</b>	Back Read - assembly, six chart on page 85	1
ļ		GM180176 - Bolt, Box. head, 1/2"-13 x 1-5/8"	В
•		GM:80378 - Ngt, hext, 1/2"+13	8
ί.	35A 1483	Vent - strap	1
İ		GM 183055 - Screec, 1/4"-90 x 1-1/4"	1
		GM1203% - Nut, hex., 1/47-20	ı
6 I	35A (464	Spacer	1
า	35A3516	Slock - stop, outer rati	:
;		GMC71548 - Belt. kext, 5/6*-18 x 1-1/4"	2
		ı	



## VARIABLE PARTS CHART FOR MY 4D SIMPLEX AND DIPLEX MASTS

		DOPLEX		SHAPLES		DEIPLEX		SIMPLEX				
OUTER	rAttle	INNER		INNER	R4 II	METICYL	INDEER	MET QY			<u>1000Қ он</u>	
Part No.	*Longth .	Patt No.	<b>™</b> .ength	Part No. 1	<b>ป</b> อกฐาน	Part No.	Stroke	Fact No.	5ttoko	Patt No.	Pitches	Length
			··- <b>-</b>		, ,							
364148E	68-1/2	3 <b>6</b> A2832	80 • 1/2	36A1346	60-1/2			384 1675			57	42-9/4
3641487	62	38A2839	82	36A 1547	82	95A2650		35A1676			59	44-1/4
86A 1488	$63 \cdot 1/2$	36/2834	83 • 1/2	3EA 1548	63-1/2			33A (677			61	45-3/4
36A1489	65	96A2835	65	36A 1549				35A167B			63	47-1/4
D6A1490	68-1/2	2EA2836	66-1/2	36/1850	66-1/2			058 1870			65	48-3/4
384 I491	£B	96A2837	68	36A1531	68	25A %660		93A1680		25A2643	67	50-1/4
36A 1492	69-1/2	36A283B	E9-1/2	36A 1852	θ9-1/2	35A2861	26-9/4	35/1681	53 • 3 / 4	35A2 <b>644</b>	69	51-3/4
36A 1498	71	3642939	71	86A1353				35A1682			71	53-1/4
JEA 1494	12-1/2	36A 2940	72-1/2	30A 1554	$72 \cdot 1/2$			3541693		35A2646	78	34+3/4
3ÇA 1495	74	36∧%941	74	36A 1355		35A2f#4		35A1684		35A9647	75	56-1/4
56A 1498	18-1/2	36A2B42	76-1/2		_	35A2665	29-3/4	35A 1695	59 3/4	35A2648	77	37-3/4
36A 1497	77	36A2B43	77	364 1557	ثባ			35A 1686		35A2649	78	59-1/4
36A : 498	าล - 1/ช	36/2844	78-1/%					3341567			81	80-9/4
26A )498		36A2B45	BO	3641559		35A2668		35A 1999		3342631	83	E2-1/4
36A 1508	81 -1/2	36A2846	80 - 1/2	36A 15EO				35A 1EB9			95	69-9/4
36A 1501	83	36A284T	83	96A I SGE				35,4 1690			37	E5-1/4
36A 1502		36/42848	8 <b>4-</b> 1/2	36A1562				35A1691			99	66-8/4
36A 1509	86	36A2349	8 <b>ë</b>	3621503		35A2672		887 1882			91	68-1/4
38A (504		16A2850	87 1/2	3641864		3542673	35-3/4	SSA1698	72 -9/4	35/1706	93	09-3/4
36A1505		S6A2951	90		68-1/5	33A2674	36-1/2	35A 1694	73-1/4	35A1707	95	71-3/4
3648913		364,8962	91-2/2	86A2366				S6A 1695		35A1708	97	52 - 3/4
36A1508		36A2853	99			33A2 <b>676</b>	38	35A16PE		38A3709	99	74-1/4
3CA 2814		36A2B54	94 - 1/2	36A7368				354 1697		35A 1710	107	75-3/4
36A2307		36A2655	96	38A 1589	85-1/2	35/12678	39-172	35A 1698		36A 1711	103	77-1/4 (
364.2815		368.2866	98•1/2					3t <b>A</b> 1699		35A 1712	105	78•3/4
80A 1509		36A2857	100	36A1571		95A2680		35A170D		35/1733	107	80-1/4
35A2816		3EA2B38		96A   872						35A1734	109 111	81+3/4 83+1/4
388 1509		36A2859	103	3641573	102	3542682				35A1715		84-3/4
36A2817		96A2880		30A .574				35A1704		35A1716 35A1717	113 115	8E/1/4
3641510		3642861	107		109-172	85A2694			30-1,4	35A1718	717	87-3/4
3642318		3642862	108-1/2	i		33 <b>A</b> 2863		r		35A L719	119	89-1/4
364351)		36/2960				135A2686 !		4		SSA 1720	121	90-3/4
36A 2919		36A2B64		1		35A2687  35A2688		1		3541721	123	52-1/4
364 1512 004 0504		36A2565				95A2689		1		33A 1722	123	99-3/4
36A 2920 36A 1613		:30A2860		1		35A 26F0				35A 1723	127	95-1/4
36A 1013		36A2867	137 138-1/8	ļ		358,2091				35A 1784	129	96-3/4
		06A2B69 3EA2869		ž.		36A2692				35A 1725	131	98-1/4
364.1514 364.0900		. I	140	İ		505.2022	00			35A1726	133	99-3/4
36A2822 36A1515				1						35A1727	195	100-1/4
36A23Z3		Ϊ		1						35A1728	137	102 - 3/4
36A 1824		,								35A1729	189	104-1/4
36/12925	-	1								35A1730	141	105-1/4
36A 2B26						Į				35A 1731	143	107-1/4
3äA 2827		1				1				35A 2732	145	108-3/4
36A 2628		al .								35A1783	147	110-1/4
36A2828		ì		!				;		35A 1734	149	111-3/4
36V \$83U		2		)						1		
56A283												

<sup>\*</sup>NOTE: Figures to length column denotes actual length of calls, For overall height lowered add 5 inches to lengths shown,

## MOBILIAT - MY 40 AND MY 68 LIFT TRUCKS

## VARIABLE PARTS CHART FOR MY 60 SIMPLEX MAST

Max, Fork	Overall Height	Олте	K RAIL	INNER	RATL	LIFT CY	LINDER	CITAIN		
Height"	Lowered"	Part No.		Part No.	Length?	Part No.	Stroke"	Part No.	Pitches	Length"
		<del>                                     </del>		i						
91	79	36A1592	55	36A1922	85	S5A 1678	44-3/4		93	68 -1 /4
94	71-1/2	36A 1863	66-170	35A 1923	E6-1/2	33A 1#T6	46-1/4	\$50,2064	98	69-3/4
97	73	36A 1884	á8	3641924	63	SSALETT	47-0/4	85/12065	95	71-1/4
100	74-1/2	36A 1885	69-1/2	36A 1925	69-1/2	3881678	49-1/4	35A 20 06	97	72-3/4
103	76	36A1886	71	36A192B	71	35A1679	50 +3/4	85/, 2067	99	74-1/4
166	71-1/2	JEA1887	72-1/2	96A1927	72-1/2	35A1680	52-1/4	33A2068	101	75-9/4
200	79	3641888	74	36A 3928	74	35A 1681	53-974	35A2069	103	77-1/4
: 15	80-1/2	36A 3989	75-1/2	264 1923	75-1/2	35A 1682	55-1/4	35A2070	105	76 - 3/4
115	32	36A3890	77	36A3U90	77	\$541643	56-3/4	25A2071	107	80-1/4
178	83 • 1/2	960 (991	79 - 1/2	36A 3931	78-1/2	36A 1684	58 - 1/4	3542012	109	81-9/4
125	85	S6A3892	ec	264 1932	60	858 1685	59-3/4	35A2973	113	83•1/4
124	86-1/2	36A 18B9	B1+1/2	38A1988	83-1/2	85A 1696	61 -1/4	. 35A 3074	113	84-3/4
137	83	864 1894	AS.	SBA 1934	83	35A1667	83+3/4	35A2075	115	86-3/4
130	89-1/2	36A1695	84-1/2	S6A 1998	84-1/2	85A 1688	64-1/4	25A2076	117	87-3/4
133	91	964 1696	66	36A 1936	86	35A1#59	<b>6</b> 5•3/4	35/12077	319	B9-1/4
136	92-1/2	36A 1897	87-1/2	36A 1987	87-172	35A1690	67-1/4	35A 2078	121	98-3/4
139	24	36A 1899	89	36A 1308	89	05A1091	68+2/4	35/42019	129	92-1/4
142	95-1/3	36A1899	90+1/2	36A1939	90-0/2	35A:692	70-1/4	30A2080	125	93 • 3.74
145	97	05A 1900	32	38A1940	92	35A1693	71-8/4	35A2081	127	95-174
148	99	1 36A 1901	94	36A 1941	94	3881094	20-174	38AU088	129	a-3 -3 / 4
151	100-1/2	3EA1202	95=1/2	36A1942	95-1/2	35A 3695	74-3/4	35A2083	131	#8-1/4
154	102	336A1908	97	36A 1943	97	25A1696	TB-1/4	: 35/12084	133	99-2/4
157	102-1/2	38A1904	98-1/2	36A 1944	98-1/2	25A 1697	77-8/4	25A 2085	135	101-1/4
160	105	9 36A 1905	:60	36A 1945	100	35A7698	79-1/4	96A2086	137	102-8/4
100	167	36A1806	102	96A 1946	302	85A 1699	80-3/4	25A 2087	139	204-1/4
166	108 -1/2	9641907	109-1/2	30A 194T	103 • 1/3	33A1700	82+1/4	\$572099	141	:05-3/4
169	110	36A 1908	100	964 1948	105	3581701	83+3/4	35A2089	343	107-1/4
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MY 40 DOPLEX	мү 40 кымесех	MY 40 870.	MY 40 CHISIS			
CARRIAGE Part No. Width	CARBOACE	HORK	FORK			
Part No., Wldtl:	Pert No. Width	Part No. Length	Fart No. Longth			
# 64 GUEGO - BAT	36A 1636 30"					
96A2870 30T		35A3367 00"	%\$A3979 90°			
3642871 327	36A 1639 321 36A 1635 341	35A 1785 327	85A305C 32"			
36A2872 34T	36A 1639 861	35A 1786 - 34"	\$5A3081 04"			
3642878 86° 3642874 38°	36A1R40 38"	35A 1733 - 96"	35A3092 36"			
36A2876 40°	36A 1641 40°	33A1735 387	35A3089 25"			
35A2876 427	36A 1842 427	35A1789 46" 35A1740 427	35A 3084 40"			
3642877 447	364 1643 441		38A 3085 42"			
36A2875 40"	36A1644 407	35/1741 <b>44"</b> 35/1742 46"	35A30 <b>86</b> 44" 35AS067 46"			
1 36A2879 48"	36A 1643 487	35/1748 48*	35A3098 48"			
96A28B0 50T	36A 1646 50°	05A1744 547	35A9769 54"			
30/7881 24,	36A 1647 54"	35A1745 80°	35A309g 6p"			
96A2BB2 G0"	36A 1648 60°	35A1746 66*	95A2091 661			
		35A1747 T21	05A30 <b>92</b> 72"			
			3335002 12			
	<u>!</u>					
SIMPLEX MAST	LOAD	MY 40 FORK	MY 60 SEMPLEX			
VVNT HOSE	SAFFITY BACK	KXTENSION	CARRIAGE			
Part No. Length	Part No. Width	Part No. Length	Zart No. Length			
H-4-0000 P-4	36A302C 48"	· 36A3968 42"	: 706 S/DVAD6			
35A2776 36"	S6A3027 54"	: 3883054 48" : 3883054 48"	, 3GAUG12 307 JEA2013 327			
35AU777 37-1/2"   35A2775 36"	26A3029 C0"	· 36A3036 54"	3CAQQ14 34*			
35AU7Y0 40-1/2"	36A3029 6E"	98A3056 60"	36A2015 35			
35A2780 49"	36AR090 727	36A303Y 66T	36/2019 39°			
35/278i 43-1/2"	i cannosii 13	0.6A.305B 527	86A2017 40"			
35A2782 45"		1	36A2018 42" i			
05A0783 46-1/2"	i		56A2D19 44"			
35/2784 43"			3645020 46"			
95A2785 48-1/0"	İ		36A2021 48" j			
35/2786 51"			36AB082 50"			
35/12787 52-1/3"	İ	l	36A2D23 52"			
35A278B 54"	! ! MY 60 CHISEL	MY 60 FORK	36A 2024 54"			
35A2769 55+1/2"	FORK	EXTENSION	36A20B5 56"			
; 35A2790 57"	Part No. Longth	Part No. Length	36Aze26 88"			
95A279i 88-1/2"	` <del>-</del>	<del></del>	38A2027 60"			
35A2792 60"	35A3093 30"	364 20 E3 42"	36A2028 727			
05A2793 61-1/2"	35A3C38 36"	367 3066 481				
35A2794 63"	23A3099 42"	9643067 54"				
35A2795 657	35A3)02 48"	36A3068 60"				
35A0796 66-1/2" 35A2797 68	30A31D3 54"	3649069 66° 3649070 75°				
35A279B 69-1/3	35A3104 601 35A3106 721	36%2010 12	:			
35A0799 71"	35A3106 72"					
35A2300 737			! I			
35A2801 74-1/2"			į l			
95A 2802 76						
05A2803 77-1/8"	1					
35A2804 19			į l			
35A2903 81			]			
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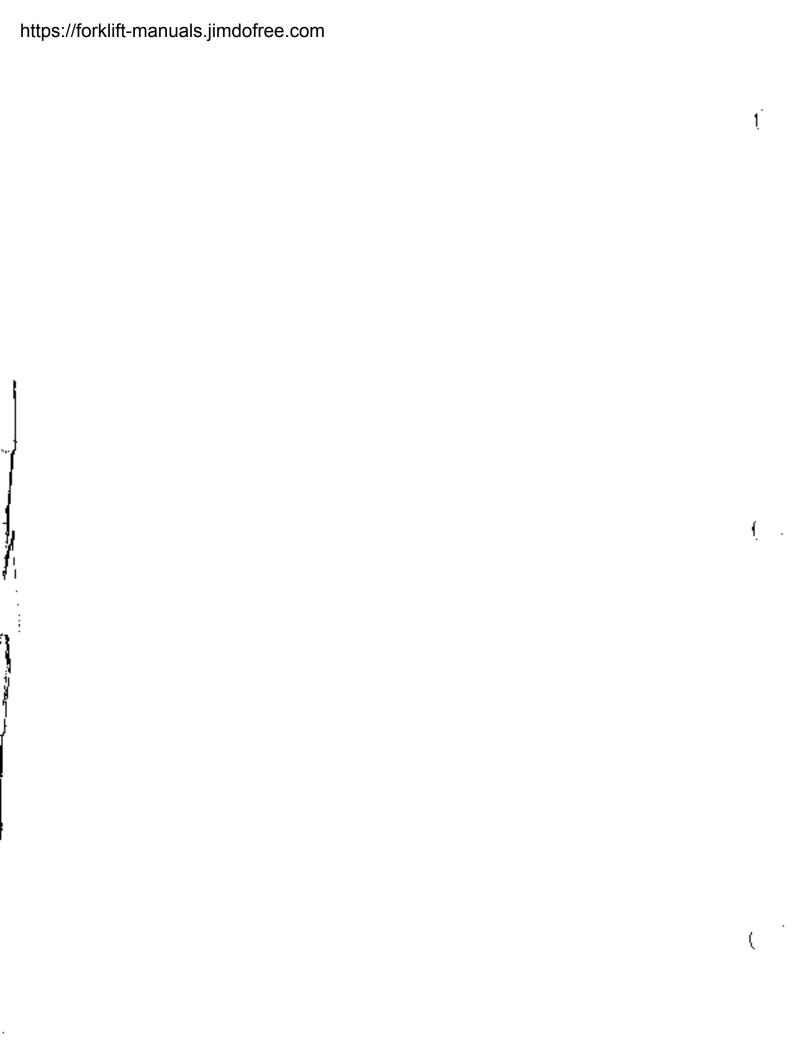
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	GM 131046		GM 179820 GM 179821			61347	5.5 - 5.5 4.6 - 4.6	GM94E0977 GM941G978	38
-	GM 131046 GM 131200		GH 179824			81400"	42		70
,	GM 131200		GM 179825			61400 61652	28	GM94(1154	(4)
	GM 131958		GM 179629	64-66			44		
	011 131303		54 1170E4	04-00 (	1111	11007	·— -		





SUPPLEMENT "A"

TO MY 40 AND MY 60 LIFT TRUCKS

PARTS, OPERATION AND MAINTENANCE MANUAL \$-292



https://forklift-manuals.jimdofree.com

Rei. No	Pari No.	DESCRIPTION	No. Pos.
		Supplement "A" to Parts, Operation and Maintenance Manual S-292	
		This supplement is to be used in conjunction with repett section of the S-292 manual. Changes and additions are listed in this supplement.	
Page 4		Omit 10A 6958 seal, ref. #22 Change 11A16004 dipstick to 11A19552 Change GM179833 to GM179839 and length to 2/8"=16 x 1" Add GM179841 Bolk - hext head, 3/8"=16 x 1=1/4" Change quantity on 10A9836 from 3 to 1	5 2 2 2
		Add 35A708 Gasket - covet	. 1
Page à	<u> </u> 	Change 35A2935 to 10A16387 and size to 1-1/2" O.D. x T-1/4"  Add 14R281 Casket Set - engine overhaul	1 1
Page 8		Change quantity on 18A18768 from 1 to 6 Omit 10A6936 stud Change 10A5935 stud to 10A6988, 8 used Change quantity on 10A6937 stud from 6 to 4 Change GM103626 not to GM214442 Add 10A6999 Washer = stud	15
Page 6		Change 10A7202 tribe to 10A18833 Change 10A6016 rux to 10A19162 Add 10A18932 Rod - metering, oil pipe	1
Page 10		Change 11A4860 piston (ref. # 11) to \$184860 Change 11A   7475 piston (ref. # 11) to \$1817475 Change 11A17476 piston (ref. # ) 1) to \$180,7476	
		Change 10R992 rings (ref. # 14) to 1001047, with expanders Change 10R998 rings (ref. # 14) to 10R1048, with expanders Change 10R994 rings (ref. # 14) to 10R1049, with expanders	
Page 12		Change 10A7723 manifold to 10A18613 Change 10A9027 stud to 10A9072 correction Change GM102685 nut to 50A1000 (see2-proof)	
Page 18	  - !	Add 35P631 Repair Kit - vaporizer Change 35P507 solenoid to 35P1084 Add 35P1037 Diaphragm - assembly, for carburetot	1
Page 22	10A 5063	Change 10A17879 hope (ref. # 30) quantity from 2 to 1 and length to 14' Add to follow: Hose - with coupling, 12-5/8' long	1

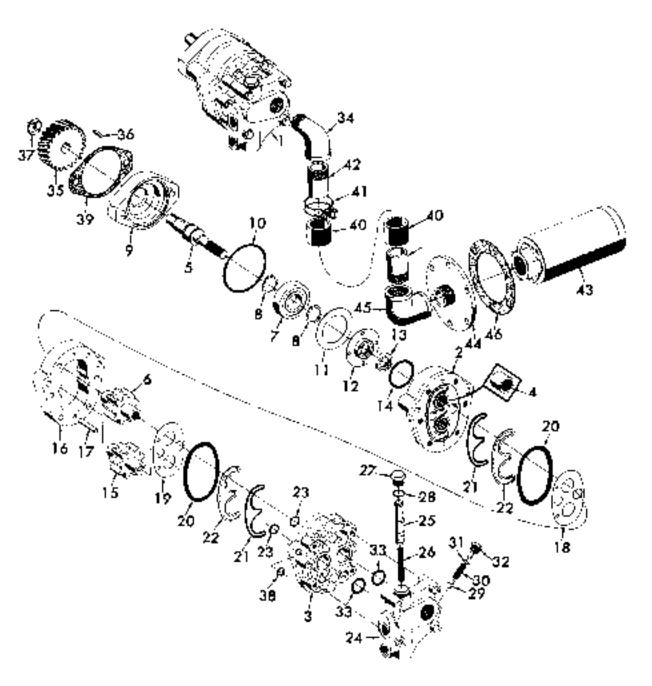
RO, Xiz	Pari No	DESCRIPTION	No Pes
sge 24		Add single asserisk to parts listed under Houes and Thermost at	
•		"NOTE: Used on MY40 Lift Truck to No. 20100250, Inc.	
		*NOTE: Used on MY 60 Life Truck to No. 20200123, Inc.	
		Add the fellowing:	
	36A 3678	There inlet	ι
		**GM105490 - Clamp, hose, 2************************************	2
	10A10689	==  loge = outlet	1
	100,1000	**GM105450 - Clamp, hose, 2"	2
	10A573B	**Thermural = 170°	1
	10A 6810	**Housing - sheemostat	î
	10000010	==GMF79841 - Bolt, hex., 3/816 x 1-1/4"	
	10A 5829	**Gasket = housing	i
	10A 19452		_
	10/413/402	**Support - huming	ì
		**GM179616 - Bolt, hex., 5/16* -18 x 3/4*	_
		**GMJ79826 - Bolt, Nex., 5/167-15 x 2"	
		**GM103340 * Waster, plain, 11/32" L.D., 11/16" O.D.	1
	10A10758	**Stud - in adapter for support	1
	(	**NOTE: Used on MY40 Lift Truck No. 20100251 and after-	
	1	**NOTE: Used on MY60 Lift Truck No. 20200123 and after.	
_			
age 28		Change 10A16338 support (ref. #3)to 10A17829	
		Change 10A8754 bar (ref. \$4) to 10A18084	
		Change 10A9758 starting motor (ref. #5) to 10A19196	
		Add to follow 35A3807 wite:	
	35 <b>A3</b> 011	Wire - tail lamp extension	1
		Add to description on 36A3307, for MY40	
	36A3778	Box - battery, MY 60	1
	10P233B	Battery - dry, 12 volt, Model 5 SN	1
	1092367	Electrodo - 3 - 2 qr. packago	-
	1072368	Electrode = 5 gallen	_
	1072369	Hose - electrode dispenser for a gallon convainer	_
	×21 22 08	Add to description on 35A3383 for MY 40	
	36A2147	Clamp - battery hold down, for MY 80	1
	300421+1	Change 35A2231 pin (ref. # 24) to 36A6868	_
		Change danzzar printreis # 24) to surrotto	
'age 30		Change 36AJT62 support (zef. # 6) to 86A5J38	
-6	!	Change 35A1759 tube to 35A5187	
		Change 36A2891 and 36A2890 houtmetet (ref. # 12) to 35A4277	
	1 35A4284	Wire = hour meter, positive	1
	35A#283		i
	00/12200	Wire - hour merce, negative	-
		•NOTE: Used on MY 40 Lift Proxis to No. 20100125, luc.	
	-54 /050	*NOTE: Used at MY 60 lift Track to No. 20200098, Inc.	,
	35A5283	Switch - neural marring, in control valve	1
		"NOT2; Used on MY 40 lift Tricks No. 20190126 and after.	
		** NOTE: Used on MY 60 Lift Tracks No. 20200099 and after.	
			'
		i	
	ļ		
	i		
	i		
	1	1	

Part No	DESCRIPTION	No F
95A <b>6</b> 95 <b>8</b>	Change GM103865 plug to 50A954 twice Change 10A2297 plug (ref. # 2) to 3bA3236 Change 35A1467 dipstick (ref. # 10) 85A2521 Change 36A899 sleeve (ref. # 11) to 35A999 and add to follow 60A1765 "O" Ring - dipstick sleeve Change GM180116 bolk to GM180120 and size to 3/4" long Add to follow GM120377 Washer - filler sube bracket Change 35A3268 plug to 50A955 Change GM180075 bolt to GM180021 following ref. # 80.	1
35P613 10A27 M536	"O" Ring = converter pump, 1/2" 1.D., 11/16" O.D.,	1
358229 95830	Hossing - assembly, output, complete  Change description on SSAZ133 housing (ref. # 4) to read, Housing - less places, places, tings, springs and seals  Add to follow GM223092 screw (ref. # 42)	1
35A 7724	Pin = serew, 1/4" x 25/82" long	1
10F1595 35P294 36A6283	Ping - housing, 3/4*-16 N.P., on unit less neutral starting switch "O" Ring - ping Switch - neutral starting Add to follow GM132046 S0A1879 Screw - 12 pt. cap., 1/4"-20 x 1" Change 35A372 spool (ref. # 5) to 35A5848 Change 85A691 spring (ref. # 20) to 35A3770 and coils to 12-1/2 Change 35A10 cylinder (ref. # 28) to 35A24 housing assembly Includes 1 - 35A10, 1 - 35A693, 1 - 25A696, 1 - 35A6184, 1 - 35A695, 1- 35A688, 2 - 10A4538, 1 - 50A196, 1 - 35A5185, 1 - 35A6828, 1 - 35A669, 1 - 10A136, and 1-50A3602. Change 35A697 ping (ref. # 30) to 35A5184 ping with vent hole, add the	1 1
35A 5185 85A 6638 35A 689	Vent - valve  Disc - filter, facility plug, 1/16" x 5/16" O.D.  Spring - disc, inside of plug, 9/16" O.D., 14-1/2 colls x 3/4" long  Change GM 180128 bott to GM 180130 and length to 2"  Change 50A 2829 pin to 50A 2832 (cort.)  Change 36A 578 support(ref. # 42/co 36A 5584	1 1 1
	35A 6958 35P 613 10A 27 M 536 35R 29 35R 30 35P 294 35A 5283 35A 5283	Change 35A1467 dipstick (ref. # 10) 35A256 Change 36A1869 sleeve (ref. # 11) to 35A399 and add to follow 50A1763 "C" Ring - dipstick sleeve. Change GM180116 bolk to GM180120 and size to 3/4" long Add to follow GM120379  35A6358 Washer - filler tube bracket Change 35A3268 plug to 50A955 Change GM180076 bolt to GM180021 following tef. # 30.  Add the following seals for converter pump  35F613 Scal - converter pump. "O" Ring - converter pump, 5-1/2" 1.D., 11/16" C.D., "O" fing - converter pump, 5-1/2" 1.D., 11/16" C.D., "O" fing - converter pump, 5-1/2" 1.D., 5-3/4" O.D.  Add the following housing assemblies prior to line 4  Housing - assembly, tupus, complete Change discription on 35A2133 housing (ref. # 4) to read, Housing - lexs plates, plates, drag, springs and seals Add to follow GM223062 screw (ref. # 42)  Pin - serew, 1/4" x 25/82" long Change 35A278 gasker (ref. # 2) to 35A378 (cort.) Change 35A278 gasker (ref. # 3) to 35A6079 and add the following.  O' Ring - plug SA6283  Solator - neutral watting Add to follow GM1320061 SOLAtor Screw - 12 pt. cap., 1/4" -20 x 1" Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A378 (cort.) Change 35A691 spring (ref. # 20) to 35A379 and coils to 12-1/2 Change 35A691 spring (ref. # 20) to 35A379 and coils to 12-1/2 Change 35A691 spring (ref. # 20) to 35A389. 1 - 33A689, 1 - 10A4389, 1 - 50A43802. Change 35A691 spring (ref. # 20) to 35A389. Change 35A691 spring (ref. # 20) to 35A389. Change 35A691 spring (ref. # 20) to 35A389. Change 35A691 spring (ref. # 20) to 35A389. Change 35A691 s

Rel. No	Part No	DESCRIPTION	No. Pcs.
'ago 38	85A 1443 35A 1444	Change quantity on 85A586 link (ref. #48) from 1 to 2 and add note to follow. 2 used when neutral starting switch is mutanted in control valve housing.  Change 36A2495 link (ref. #48A) to 36A5772 link, used on earlier lift tracks on which neutral starting switch is not mounted in control valve housing.  Add a single agentsk (*) to 85A1282, 35A1288 and 85A1284  *NOTE: Used on MY40 lift tracks.  **Tube - filter to transmission case	1 1 1
	88/-1445 -	**Tube - filter to transmission case	1
age 40	İ	Change 25A1483 housing (ref. #11) to 35A5086.	
age 42		Change 859121 cone (ref. \$19) to 10A574 (same as).	
лge 44		Change GM103865 to 50A954 following ref. <b>#20.</b> Change 85A2112 plug to 35A3256.	
Page 46		Change the description on the following parts from right band to left band: 35A1241, 35P318, 35P332 and 35P335.  Change the description on the following parts from left hand to right band: 35A1242, 35P317, 35P331 and 35P334.	
	35A5665	Add to follow 35A1242: Screw = cap (special), 9/16"-12 x 1-3/8"	Į0
°8gc 4#8		Change 36A2256 pedal (ref. #1) to 36A5965.  Add CM271283 = Fitting = fresse, 1/8*-27 x 45°  Change 36A2255 pedal (ref. #2) to 36A5964.	1
		Add GM124824 Nut - hex., jam, 5/18"-18, GM102445 - Set Screw - oval point, 5/16"-18 x 1", GM271283 - Fitting, grease, 1/8"-27 x 45°	1 1 1
		Change 35A1811 shaff (ref. \$4) to 36A5916, Change 50A2886 Pin = csll, 3/16" x 1-1/2". Change 35A1810 bracker (ref. #5) to 35A5914. Change quantity on GM120377 aut from 1 to 2 and add;	
		50A 1083 - Nor, hex. (gripco), 3/8"-16	2
	:	GM137883 - Clevis - rod GM274663 - Pin, clevis	1 1
	İ	GM121222 - Pin, cottet	1
'age 52		Add to follow GM180120 bolt. GM181694 Bolt, hex., 1/2"-20 x 7/8"	1 <b>6</b> 16
		Add to follow ref. #T, 35A558 cap. *Tire and Tube, 6:00 - 6:80 x 2", 10 ply, MY40	2
		Add to follow 35P123 cap: **Tite and Tube, 7:50 x 10, 10 ply, MY60 Change 35A1468 bolt (ref. ¥9) to 35A6398.	2
		Add to follow 35A1300 stud, ref. #12 hardware; *Tire and Tube, 7:50 x 15, 12 pty, MY40	2
		*Tite and Tube, 8:25 x 15, 12 ply, MY 60	2
		Add to follow 35A1012 spaner;	

Part No.	DESCRIPTION	N⇔ P
10P2081 10P2080	Change description on 85A 582 to Gear - steering, less arm and change includes the following 23 parts:  Ornir GM114486 num (ref. #22) and use:  Not - look, adjusting screw	1
10P2061 10P2060	Ornit GM114496 - Nut. (ref. #22) and add: Nut - lock, adjusting screw	1
	Change 35P49 puron (ref. #1) to 85P349 (cort.) Change GM103D28 pur (ref. #2) to 5DA1D10 lock nur.	
	Change 36A2925 traine (ref. #1) to 36A3292. Change 36A4065 frame to 86A7598. Change 36A4275 frame to 36A3376. Add new importing pad	
85A6T05	Fad - bonded, engine to frame (MY40).  Change 36A463 bracket (ref. #6) to 36A6782.  Change 86A602 bracket to 36A6572.  Change 6M180191 bolt to GM180192 and:  Add to description on 36A476 support (ref. #7) with 2 holes used on support.  Add to description on 35A863 support (ref. #7) with 2 holes used on support.	2
35A 5315 86A 5809	Support = differential case to frame, MY 40 Support = differential case to frame, MY 60 50A1739 = Bolt, hex., 6/8"=11 x 4" Change 36A501 safety walk to 35A6058 and size to 12" x 20" Change GM448257 waster to 50A2606, 25/32" 1.D., 1-5/6"0.D.	2 2 8
35.4 5773 35.4 638   35.4 6454 35.4 645.5	Change 25A 382 decat to 35A 8089. Change 86A 384 decat to 86A 4969 and add the following decats: Decat = starting caution Decat = strap Decat = spear, R-H+ Decat = spear, L-16.	1 2 1 1
	Change 35A2178 support (ref. #6) to 3BA2178. Change 35A2179 support (ref. #7) to 86A2179.	
	Add note to heading ()sed on MY 40 lift trucks to No. 20300175 inc. Change 85P278 bearing to 80A164 (sume as). Change 10F1595 spring (ref. \$26) to 10P1592. Add new group for hydraulic pump on MY 40.	
	10P2060 10P2060 10P2060 10P2060 85A6705 35A5215 85A5809 35A6381 35A6454	Change description on 88A582 to Geat - steering, less arm and change includes the following 23 parts; Ornit GMAI1496 nut (ref. #22) and use:  Not - lock, adjusting states.  Not - lock, adjusting states.  Change 35A3001 arm {ref. #23 to 35A2898.  Add to description on 58A698 (sef. #28) booster studies steering arm. Change 58A0404 drag link {ref. #32) to 55A6492 and add to description increase red to sake housing.  Change 35P302 seat {ref. #39) to 10P1891 and add: GM1192643 - Not., hex., slottest, \$/16" -18.  Ornit GM114966 - Not. {ref. #22) and add.  Nat - lock, adjusting strew.  Change 35P49 pixton (ref. #1) to 35A3494 cost.) Change 36A4025 frame {ref. #1) to 35A3292. Change 36A4025 frame to 36A 7598. Change 36A4025 frame to 36A3396.  Add new mounting pad  Pad - bonded, engine to frame {My40}.  Change 36A4625 bracket (ref. #6) to 36A6782. Change 36A4625 bracket to 66A6572. Change 36A4625 bracket to 66A6572. Change 36A6465 bracket to 66A6572. Change 36A6465 bracket to 66A6572. Change 36A667 on 35A476 support (ref. #7) with 2 holes used on support Add to description on 35A476 support (ref. #7) with 2 holes used on support Add to description on 35A476 support (ref. #7) with 2 holes used on support Add now supports for frame with 4 both support morting 30A907 of differential case to frame, My 60  SOA5173 - Both, bex., 5/6" -11 x 4" Change 36A3282 decail to 35A8033 and size to 12" x 20" Change 36A3282 decail to 35A8039. 35A6391  SSA6391  Decal - starting caustion  Change 35A2178 support (ref. #6) to 36A2178. Change 35A2178 support (ref. #6) to 36A2179.  Add not to beading (leed on My 30 lith trucks to No. 20100175 inc. Change 35A2178 pupport (ref. #6) to 36A2179.  Add not to beading (leed on My 30 lith trucks to No. 20100175 inc. Change 35A218 bearing (ref. \$40 to 10P1826.

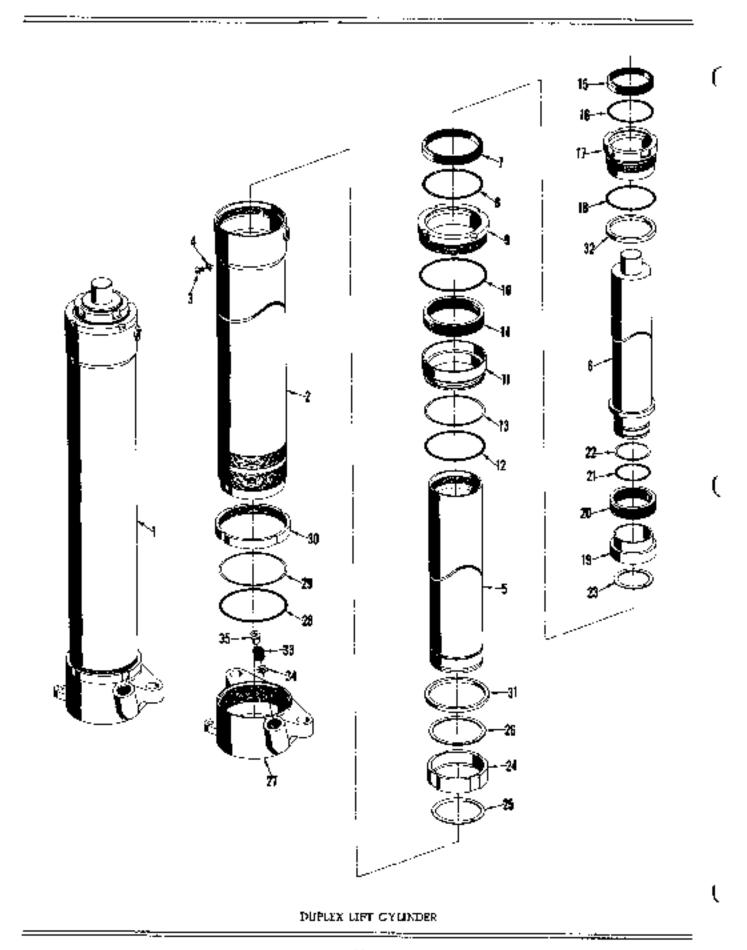
	Part No	DESCRIPTION	No. Pk
		TIYDBAUUG PUMP	
		Used rm MY40 Lift Truck No. 20100176 and After.	
1	85/13014	Pump - hydraulic, with flow divider	1
ь	35P269	Includes the following 23 parts:	
2 8	85P270	Body - pump, with bearings.	1
1	33P227	Cover - pump, with bearings	4
5	1001860	Shaft - drive	1
6	10P1864	Gear - drive shalt	î
ř	30A 164	Bearing - ball, drive shaft, New Dep. No. 3206	i
8	. 35P279	Ring - bearing resainer, Truste No. 5189-118	2
Š	1001363	Adapter - bearing	ī
•	i	GM147105 - Screw, adapter, No. 8-32 x 1	2
10	35P277	"O" Ring - adaptor	1
IJ	35P276	Washer - throse, half bearing	1
18	35P288	Retainer - with oil seal	ī
13	10P1772	Seat - oit, Chicago Rawbide No. 501391	1
	10P1966	Screw = retailler, this conting, No. 10-24 x 3/6"	4
.4	35P286	'O" Ring - retainer, 1-15/16" O.D.	1
.5	108/1568	Goat - idler	3
.6	10P1862	Plate = gear	
. 7	LOG 1861	I'an - cowel, gear plate	2
		GM175829 - Bolt, hex., cover to body, 5/36"-18 x 2-3/4"	G
18	359285	Plate - wear, pump body;	3
9	35F2B8	Plate - wear, primp cover	1
10	35£'2R8	Scal - west plate, outer, subber	2
!1	35P2B4	āral = wear plate, inner, mibber	3
.2 .	35P281	Rung - back-up, wear plate seal	2
23	1 250287	"O" Ring = 5/5" 1,D., 3/4" O.D.	2
}4 □	10P1859 10F1591	Flow Dividet, assembly	]
!E	INP1590	Piston garagement of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	]
:0 !T	1UP1595	Spring - piston	1
99	35P294	Plug - piston and spring" "O" liding - platon plug	1 1
 !\$	35P290	Valve	1
10	18P1408	Spring - valve	1
 11	35P293	Shim = Valve spriky	A.R
22	35P293	Plug - valve spring	1.2.
_ 53	3512296	"O" Ring - flow direlder to pump	2
-		GM135226 - Serow - flow divider to pump, 5/16"-19 x 2"	· 4
34		GM127792 = 21bay = pump taler, 15=900	ī
35	10A16952	Gear - helical, on pump shaft	
36	10A5648	Key - gear	
37	13A5647	Washer = 1908, gear to shaft	1
		GM186283 - Bolz, pump to housing, 8/6*-16 x 5"	3
36	10A10234	Washer - pump hult	2
39	35A 705	Gasket = putrip to side cover ************************************	l i
40	35A 1285	Hose - suction strainer to pump.	
41		GM105487 - Clamp, hose, 1-0/4"	
12	35A2524	Nipple - pipe, 1" x 2"	2
43	35A 698	Strainer - suction	1
44	3EA (%9	Flange - mounting, on hydrautic uil tagk	1
		GM190121 - Boh, hex., 3/8"-16 x 7/8", cad	Б
		! GM197793 - Elbow, pipe, IT, 90°.   Gasket - flange to tank	į i
45 40	35A700		



HYDRATURO PUMP

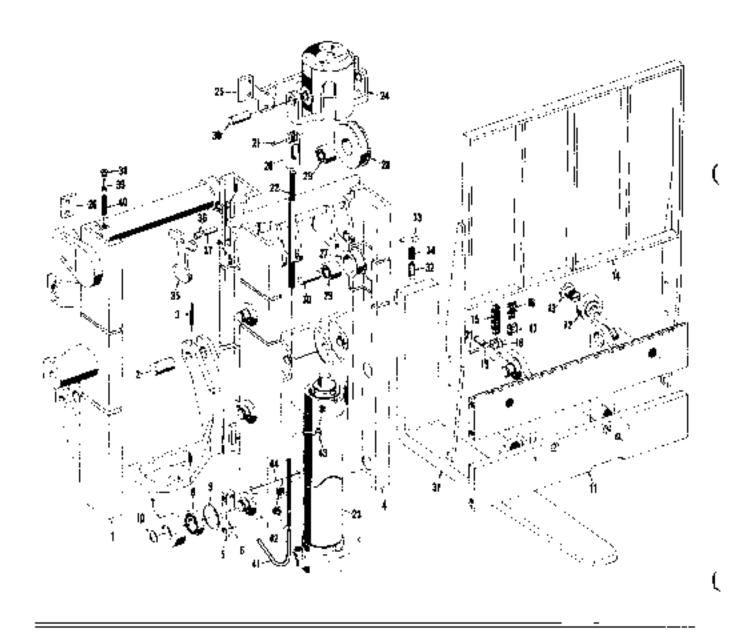
	Pari No	DESCRIPTION	No. Pes
'age 66		Change GM205479 clamp to GM105478 and alze to ₹-3/4".	
'age 68		Add a single cross (4) to 86A8078 valve.	
		+NOTE: Used on MY40 Lift Trucks to No. 20189275 Inc.	
3	5A 6739	-+ Valve - control, MY 40	1
		++NOTE: Used on MY 40 lift grucks, No. 20100176 and after.	
		Add note to SSP221 spring, (ref. #16) for SSA3078 valve.	
	5P227	Spring - reMer, for 35A 8739 valve	ŗ
I -	<b>5A3</b> 118	Plug - valve, power beyond.	1 1
1	59747	Garket - plug, power beyond	1
age 70		Change 50A948 nipple (ref. #18) to CM128067 and size to 1-1/2".	
·		Change 10A1472D elbow (ref. #19) to 10A12470.	
		Change 35A 3039 hose (ref. #23) to 85A 3865.	
		Change 10A8285 "O" dog (ref. #28) to 19A16285.	
		Add to follow 10/16405 "O" ring, tef. #42: 50/4603 - Clip, hose, on upright plu	1
a	SA 8306	Clip - hose, tilr cylinder, left hand	1 1
l *			•
age 71		Add new fitting to replace 50A 1256 on late model trucks.	
3	5A4337	Fitting = bose, 1/4"=15 x 90°,	1
m		Character SE 10545 and the fact of All to the following	
Age 72   2	5A6686	Change 35A2746 cylinder (ref. #1) to use the following:  Cylinder - assembly for MY40 Laft Trucks	1
	571280	Rod = piston, for 35A6666 cylinder, 16=7/8" long	i
	SA 7710	Cylinder assembly, for MY 60 Lift Trucks	1
3	5P1063	Rod - piston, for 35A7710 cylinder, 13-5/8" long	1
		Add to description on 35P313 rod, for 35A2746 cylinder.	
		Change 35P305 mg (ref. #9) to 50A1140, 1-1/8"-≥2,	
		Change 85F816 ring (ref. #16) to 19A7848 (same as) Change 35F211 and (ref. #19) to 2565226.	
		Change 35P212 bishing (ref. #21) to 15A13163.	
		Change 36A706 pin (ref. #21) to 36A4925 and length to 3-3/8" lung.	
3	SA 5301	Pin - tilt cylinder, 1-1/4" x 9-1/4"	2
_ ا		30A2831 - Pin, roll, 1/4" x 2-1/4"	2
3	5932	Repair Kir - ritr cylinders, consists of items o, 6, 7, 12, 13, 14, 15 and 18.	
age 74		Change 35P486 tetainer (ref. #4) to 35P169.	
"		Change 35P485 piston (ref. #7) to 85F168.	
		Add to description of SSF176 (tel. #8) packing set, includes V -rings.	
		packing and adapter.	
.	eras	Ornit 35P198 V-ring, 35P377 pecking, and 35P179 adapter.  Repair Kit - lift cylinder, consists of items 8, 12, 13, 19, 20, and 21.	
l "	WW		
age 76		A44 to heading:	
		Group I	
	C D1 DC	Used on MY 40 Lift Truck to No. 20100175 Inc.	
l °	6P13B	Washer - piscon packing	1
Page T7A		Add new Duplex laft Cylinder	
		· [	
		<u> </u>	
ı			

Rel No	Part No	DESCRIPTION	No Pes.
Page T7A		Duplex Lift Cylinder	
(Contid)		Group 11	
(00 0)		Used on MY 40 Lift Trucks No. 20100176 and after.	
	35A5237	Cylinder - lift, complete, 35-1/2" long	ι
1	35 <b>A52</b> 45	Cylinder - lift, complete, 40-1/2" long	ì
i!	35A 5250	Cylinder - lift, complete, 44" long	
- i	0-)11 ()200	Each includes the following 34 parts:	_
ای	35P1120	Shell - for 35-1/2" cylinder	1
I	35P1121	Stiell - for 40-2/2" cylinder	1
2	35PB42	Shell = for 44" cylinder	
8	929/883	Screw - botton head, cylinder skell	1
4	35PB32	"Seal - burton bead screw	1
5	3571122	Tube - Intermediate, for 35-1/2" cylinder	1
ō	3591123	Tube - Intermediate, for 40-1/2" cytinder	1
5	351'8 <del>44</del>	Tube - intermediate, for 44" cylinder	
В	35P1124	Plunger - for 35-1/2" cylinder	I
В	9514125	Piunger - for 40-1/2" cythoder	
ů	25P848	Plunger - for 44" mylinder	
7	351'822	*Ring - wiper, intermediate tube	
8	35b83a	Spring = garter, wiper ring	
8	35F834	Retainer - wiper ring	1
LO.	10P1241	*"O" Ring - retainer, 4-1/2" I <sub>2</sub> D <sub>2</sub> , 4-3/4" O <sub>2</sub> D.	
11	35J'836	Brahing - intermediate tube	
12	10A 13798	**O" Ring - intermediate tube hushing, 4-1/8" O.D., 4-3/6" O.D.	
13 14	35 <b>98</b> 33 8 <b>59837</b>	*Ring - back-up, "O" ting  *Packing - tube busing	i
15	95P840	*Ring = wiper, plunger	
16	85P829	*Spring - garter, wiper ring	
17	357838	! Retailing - pluntger wipor ring	
19	10A   1847	*"O" King - wiper ring retainer, 3-1/4" 1,D., 3-1/2" O,D,	ī
19	35P820	Piston	í
20	95P8 <b>84</b>	*Packing - piston	
21	10A4T2#	""O" Ring - piston, inner, 2-1/4' 1.D., 2-1/2' O.D.	
22	35P821	*Ring - back-up. "O' ding	
23	05P820	Ring = snap, pistou retainer	
24	85P826	Bearing - intermediate tube	1
25	35P825	Ring - bearing retainer	
26	35P627	Hing - snap, hearing	
21	35P828	Head - cylinder	1
28	10A 13185	*"O" Ring = cylinder head, 4=5/8" I.D., 4=1/8" O.D.	
29	35P830	Ring - back-up, head "O" ring	
30	35P871	Not - lock, cytinder head	1
કા	95A6580	Spacer - intermediate tube, 1/4" x 4-5/32" O.D., for 35-1/2" and	_
01	051 5590	40-1/2" cylinden	
31 32	35A 5332 35A 5332	Spacer - intermediate tube, 1° x 4-6/32", for 35-1/2" cylinder,	1
32 32	35A5334	Spacer = plunger, 1/4" x 3-5/32", for 35-3/2" and 40-1/2" cylinders	,
33	85P1025	Spacer - plunger, 1" x 3-5/32", for 35-1/2" cylinders	1
34	35F140	Spring - oil restrictor  Washer - perforrated, oil restrictor	1
35	85P146	Spacer - all restrictor	i
00	35837	Repair Kit - Lift rytinder	ī
	J.A.D.	*NOTE: Repair Kit consists of the above items identified by an asterisk(*)	
igs 78		Add to heading on MY 40 Duplex Opright	
		Used on MY 40 Lift Trucks to No. 20100175 inc.	i
	!	Change 35A623 pin (ref. # 15) to 35A5459 and size to 1-25/32"	
		Change ref. # 46 description to read, see chart on page 54	'
	l	Change ref. # 34 description to read, see chart on page 56	
	1	· *	i



Re2, No.	Pari No.	DESCRIPTION	No. Pos
Page 79A		Add new MY 48 Duplex Upright	
-		MY 40 Duplex Opright Group IV	
,	<b></b>	·	
1		Rail - cutor assembly, see page 34 additions	1
2	86A 5918	Piu = upright to fractie, 1-1/2" x 2-3/4" long	2
3	SDA JT71	Pin - roll, 1/4" x 3"	2
	55 1 600	GM271287 - Fitting, grease, 1/4*-28	2
	35A568	Bushing - pivox pin, 1-1/2" 1.D. x 2-1/4" long	2
4		Rail - ituer assembly, see page 64 additions	1
5	35A 5535	Shoc - mast	- 8 12
6	35A5536	Shim - mast store	A.R.
7	35A 70B	Relier - mast	10
В	D317	Bearing - mast roller	10
9		50A 577 - Ring - suap, mast bearing, 3-5/32" I.D	10
10		50A 578 - Ring - snap, mast bearing, 1-3/8" I.D	10
71		Cartlage - Essembly, see page 86 addictors	i
12	36A5317	Bearing - thrust, carriage	4
13	85A 5755	Pin - thrust bearing	ā
14		Rack - load safety, see page 86	
		GM271772 - Bolt, hex., 8/47-i0 x 2-1/4" cad.	Ē
		GM131046 - Washer, lock, end., 3/4"	6
15		Chain - 9 x 4 lacing, see page 84	2
18	3EP#00	Chain = 3/4" pitch, 3 x 4 lacing, 10 foot toll	
16	35/15041	Link - connecting, 7 links with 2 pins	_
17	35A5042	Link - connecting, 3 links with 2 pins	-
18	35A C5B2	Anchor - chain, lower, 2-1/2" long	, n
19	35A5766	Pin a chain anches the 1/2" fance	2
10	. aanaroa	Pin + chain anchor, 2+1/3" long	
20	: BSA 6580	50A2753 - Ring, retabler, annhor pin	2
21	: 85AB87	Anches - chain, upper, 4-1/2" long	2
<i>0</i> -	0011001	CM 1009/91 - Corres   4 (20) ex 1 / (20)	4
22	!	GM 109372 - Corect, 3/32" x 1/2",	4
0-U	!	Rod = chain anchor, see page 84 additions	2
	!	GM319768 - Nut, bex., jant, 3/4"-16 50A 197 - Nut, spherical, 3/4"-16	4
23		Cylinder - lift, see page 77A for component parts and listing on page 84	2
200			,
		additions	]
			_
24	36A5286	GM124829 - Nua. hex., jarn. 8/8"-16, cad.	]
24	3049280	If ead = piston	2
25	35A920	GM 102583 - St.pew. set, cup point, 3/8"-16 x 1/2	1
20	308320	Guide - pisten head GM180179 - Belt, bex., 1/2"-18 x 2-3/4" cad	2
		(1)(1)(1)(1)(1) - 6-11, 6-11, 6-11, 1-12, 1-13, 1-13, 4-13, 4-13, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14, 4-14,	4
26	35A5320	GM320378 = Nut. hex., jam. 1/2"+13, cad	4
261	3043320	Block = grop, outer rail	2
ап	25 1 6240	GM271715 - Bolt, her., 5/8"-11 x 1"	4
27	35A 6749	Sheave = chain, 8-1/8" (ta.	4
28	35A 5750	Sheave - chain, S-1/4" dia.	2
29	85/15316	Bearing - sheave	ű
30	35A5760	Pin - sheave bearing, 1" x 2-3/4"	4
20	85A 6362	Pin - sheave bearing, 1" x 3-1/8"	2
		50A2R48 - Pin, [0]], 5/82" x 8/4"	6
31	054050	Fork - Lifting, see page 36	2
32	95A 668	Plus - furk stop, 2-1/0" long	2
33	35A 669	Lover - stop plus	2
84	33A 66T	Spring - stop pln	2
_	l	50A2832 - Pis, roll, 3/16" x 1"	2
85	36A3707	Letch - with bushing	1
36	10A13026	Rushing = 19tcls, 5/8" I.D., 5/8" Nong	1
	L Octobration	$T_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1}^{2} = 1_{1$	_
87	8584084	Pin = latch. 5/8" x 1-7/8"	1

ki No	Pan No	DESCRIPTION	
		MY 40 DUPLEX EPRIGHT (Cont'd)	!
88	35A3698	Cap = latch dog	1
39	35A3697	Cap = latch dog	1
40	35A3696	Spring - lateb dog	1
41	9547930	Tube - vent, 1/4" and 8/3" O.D.	! 1
42		Flore - went tube, see page 84 addictions	1
43	35A 7307	Elbow - vent hose, 90°, 1/4"-18	lī
44	30/4660	Strap = vent hose	1 1
45	JāA1464	Spacer - vent hose	l 2 2



Ref. No	Fart No.		DESCRIPTION		No. Pry		
age 82			Add a single cross (+) to D297 pln, 50A 647 serew and GM138290 serew +NOTE; Used up MY 60 Llft Trucks to No. 20200098 Inc.				
14	14 35A5317				1-1/4° 0.D		4
15		5755	44 Pin = Thri	81 miles 1-1/4" x 2-	-1/16" Long		4
	001.	0,00	147 LL - 1111	05ua - Cer Cerous Nov	. Bucket, 3/8"-16 x 5/	(a.	2
				. Hand on 180 00 146	sucket, зув -16 ж ау Ттискя No. 20200099 а	(0 ba-6bbranessa)	2
	044	5039					
			TIDK - Co	reweating, to make an	dr. 8 pins,	4-8-4	•
	254	5 <b>04</b> 0	Link - co	rnecting, 4 links with	. 2 pins	• • • • • • • • • • • • • • • • • • • •	-
ige <del>9</del> 4			Add new	_	in anchor rod and year i		
•						-	
		_					
Duplex		Dup		Duplex	Duplex	Duplex	
Outer Raff		lanet	Rail	Cylinder Assy-	Chain Anchor Rod	Vent Hose	Mas
	'	í	.	_			
GA 6607 <b>-</b> 60	I=2/2°	964560	6 - 60+1/2"	35A5232 - 33"	35A57B0 = 341	35A 1327 ~ 16"	91
64 6608 - 62		38A 566		864.6239 - 33"	35A 5780 - 14*	35A 7327 - 16"	91
GA 660R - 60	I=1/2°	36A 56G	$8 - 83 - 2/2^{\circ}$	25A 5234 + 33"	35A 5780 - 14"	85A 7327 - 16"	97
M 6610 - <b>6</b> 5		36A566		35A 5235 • 33"	35A 3780 - 14"	35A 7337 - 161	100
%A <b>6</b> 611 - 66			0 + 06-1/2"	35A 5286 - 35*1/2"	85A 5781 - 16-2/2"	- 35A 7328 - 19"	103
6A 6618 + 68		36A567		39A 5237 - 35-1/2	35A3Y9) - JG-1/2"	55A T32B + 19"	106
Αβ <b>6</b> 33 <b>-</b> 60			2 - 69-1/2"	J5A5286 - 85-1/27	35A 57B1 - 16-1/2	35A 7326 - 19"	139
A 6624 - 71		36A587		. 85A 5899 • 38°	: 35A6782 - 187	35A 7929 = 21 - 1/2	112
A 6615 - 72			4 - 72-1/2"	25A 3240 - 36"	95A5783 • 181	35A7329 - 21-1/21	j 115
54.6616 - 74		J64567		85A5241 - 38"	35A6782 - 15'	35A 7329 - 21-1/2	118
64 6617 <b>-</b> 75			8 - 75-1/2°~	35A5242 - 36"	85A 5782 - 18"	35A 7829 • 21=1/2"	.   .222
6A 6618 - 71		. 26A367		35A 5243 = 40 - 1/2	1		
			8 - 78-1/27	35A5044 - 40=1/2"	35A5783 - 21"	33A7880 - 24"	124
CA 6619 - 76	-				35A5783 = 21"	85A 7320 = 24"	127
64.6620 <b>-</b> 80		36A567		35A 5245 - 40-1/8"	1 35A 5788 + 21"	30A7330 - 24"	190
GA <b>6</b> 021 - 83			0 - 81=1/2"	35A6246 - 441	25A 5784 + 241	05A 7331 = 25=1/8"	1,33
ra 6622 - 88		36A 565		85A 3247 - 44"	35A 5784 - 24°	35A7891 - 26-1/2"	186
6A 6023 = 84			2 - B4-1/2"	33A 5248 = 44"	35A 5784 - 24"	05A7331 - 26-1/2"	189
6 <b>A 6</b> 624 + 80	_	36A558		35A 5249 = 44"	35A 3784 - 24"	35A7881 + 20+1/2"	1 1 1 1 2
BA 6625 <b>-</b> 81		36A568	4 - 87-1/2"	35/45250 = 44"	35A5784 - 24"	35A7081 = 2K=1/5"	1 145
64 <b>6</b> 62 <b>6</b> – 35			3 <b>-</b> 89 <b>-</b> 1/2"	35A5251 - 471	35A5785 <b>-</b> 28"	<u> 394 7882 - 30" </u>	148
6A 6827 - 91			6 - 61"	35A 5252 - 47"	! 35A5785 = 281	; 35A 7332 = 30"	151
6A 6629 — 94	2-1/2"		7 - 82-1/2"	8\$A 5253 • 47"	35A6785 - 38°	39 <b>A 7</b> 382 - 30"	, 154
8a 6829 <b>-</b> 99	1-	! SäA568	8 - 94"	35A 3254 - 47"	; 35A 5785 = 281	35A 73S2 = 30"	j 137
<b>an</b> 6630 <b>-</b> 98	5-1/2"		is = 95=1/2"	85A 5255 = 50°	35A 5786 = 32=1/2"	35A T883 - 33"	160
ga 863 <b>2 -</b> 91	J=1/2"		0 - 97-1/2"	35A 5256 - 59°	<u> 35A 5786 - 31-1/2"</u>	35 <u>4 7333 = 33"</u>	163
6 <b>A 6</b> 88 <b>2 -</b> 99			5 + 59,	35A 5257 = 60°	3355786 - 31-3/2"	95A <b>T383 - 33</b> '	166
6A 6688 + 10			12 + 100+1/2"		85A5755 = 31-1/2"	35A T333 = 331	169
(AB634 - 10		] 36/4562	3 - 1027	95A5259 • 58"	3545787 - 83-1/81	25A <b>13</b> 84 - <b>8</b> 61	172
646685 <b>-</b> 10	03-1/2"		M - 103-1/2°	35A 02 <b>6</b> 0 - <b>53</b> "	, 35A 57B7 - 33-1/2"	25A 7334 = 26"	175
(A 663 <b>8 -</b> 10			5 - 105-3/2"		85A8787 - 33-1/2"	35A 7334 + 36"	178
						1	
				<u> </u>		<u> </u>	
			Add 36P	604 For <b>10 f</b> t to⊞ of 3/	'4" pitch 3 x 4		
			ł				
			1				
			1				

	Past No	DESCRIPTION			
lage 95		Add a single executak to funct Rails starting with 36A 1922 thru 36A 1951  *NOTE: Used on simplex masts on MY 60 Lift Tracks to No. 20800098			
		Inc.			
!		Add new listing for inner rails and add double agrensk (**)			
	:	8647532 - 65 3647543 - 84-1/8 3847558 - 105			
		8647532 - 65	<u>:</u>		
	1	. 3001   301   50   305   301   101   105   1			
		86A7535 - 69-1/2 36A7548 - 89 36A7561 - 110			
		36A7536 - 71			
	i	36A7637 - 72=1/2			
		36A7538 = 74			
		36A7639 - 75-1/8			
		36A7540 - 77			
		86A7641 - 76-1/2 36A7654 - 98-1/2 36A7642 - 80 36A7655 - 100			
		1 '			
		96A7643 - 81-1/2			
		** NOTE: Used on simplex masts on MY 60 Lift Trucks No. 20209099 and after.			
		Add 35P601 chain - 10 ft. roll, 3/4" pitch, 4 x 6			
age 86		Add a single asterisk (*) to MY 40 Duplex Carriage			
MB+ 0-	)	*NOTE; Used on MY 40 Lift Trucks to No. 20100175 Inc.			
		Add new Duplex Carriage			
		** 3646595 - 30" 3646596 - 32"			
		38A6597 - 34"			
		86A 6598 - 36"			
		3646599 - 387			
		364 6600 - 46"			
		36A6601 - 42"			
		86A6602 - 44"			
	Ī	38A 5603 - 48T			
		36A6604 - 48°			
	<b>\</b>	36A6605 - 60"  **NOTE: Used on MY 40 Lift Trucks No. 20100176 and after.			
		Add group for MY 60 Std. Fork 85A2093 - 30"			
		35A2094 = 32"			
		85A2095 - 34"			
		35A2096 - 86"			
		35A2047 - 36"			
		35A2098 - 40°			
		85A2099 - 42"			
		35A 2100 - 44"			
		85A2t01 - 46"	ĺ		
		35A2102 - 48"			
	) ·	35A2103 - 54"	1		
	ļ.	3542104 - 60"	1		
	1	35A2105 - 56"	1		
		85A2106 - 72"			
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