

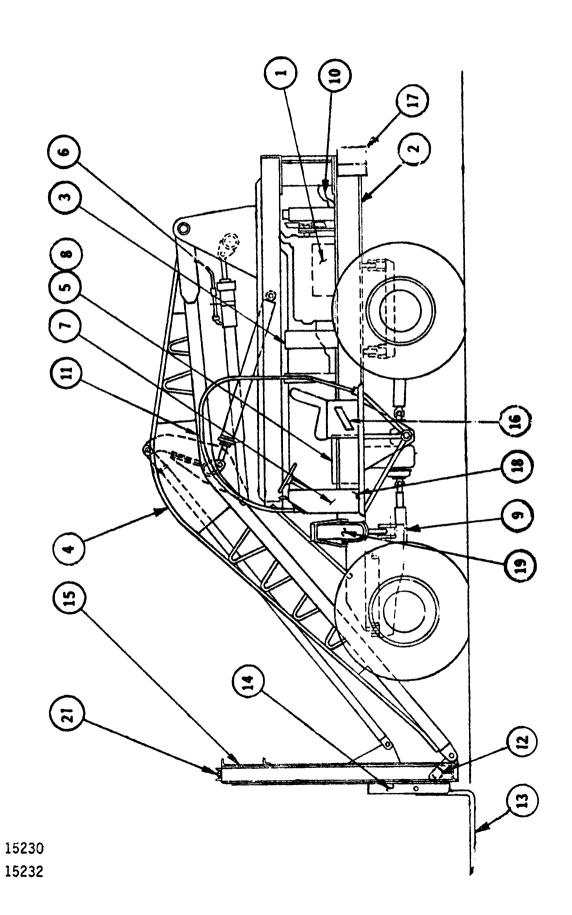
Illustrated Parts Manual

Model 400B

10709906

May 2000





| ITEM | PART | SEE ASS'Y | DESCRIPTION | ENGINE |
|----------------------------|-------|-----------|------------------------------------|--------------|
| 1 | | 15234 | Drive Train | 225 CHRYSLER |
| | | 15417 | Drive Train | 283 WAUKESHA |
| 2 | | 15235 | Tilt Frame Ass'y. | 225 & 283 |
| | | 15436 | Non-Tilt Frame Ass'y. | 225 & 283 |
| 3 | | 15236 | Upright Installation Ass'y | 225 & 283 |
| 4 | | 15237 | Loader Ass'y | 225 & 283 |
| 5 | | 14494 | Hydraulic Ass'y (Pump To Valves) | |
| 6 | | 15239 | Hydraulic Ass'y, (Loader) | 225 & 283 |
| 3 4 5 6 7 8 | | 15682 | Operators Platform Ass'y | 225 & 283 |
| 8 | | 14498 | Fuel Tank Ass'y | 225 CHRYSLER |
| | | 14705 | Fuel Tank Ass'y | 283 WAUKESHA |
| 9 | | 15509 | Drive Shafts & Axles Ass'y | 225 & 283 |
| 10 | | 15241 | Wiring & Electrical Comp. Ass'y | |
| | | 16367 | Wiring & Electrical Comp. Ass'y | 283 WAUKESHA |
| 11 | | 14560 | Overhead Guard Ass'y | 225 & 283 |
| 12 | | 15229 | Spindle Ass'y | 225 & 283 |
| | | 14073 | Roller Ass'y | 225 & 283 |
| 13 | 16511 | | Forks | 225 & 283 |
| 14 | | 15681 | Standard Carriage | 225 & 283 |
| 15 | | 15243 | Tower Ass'y | 225 & 283 |
| 16 | | 14613 | Paint Decals & Instructions | 225 & 283 |
| 17 | | 16326 | Counterweight | 225 & 283 |
| | | 14614 | Miscellanious Greese & Lubrication | |
| 18 19 | | 15242-1 | Hydraulic Ass'y (Frame Tilt) | 225 & 283 |
| 20 | | 16087 | Hydraulic Ass'y (Load Sensing) | 225 & 283 |
| 21 | | 16118 | Hose Kit & Sheave Assembly | 225 & 283 |

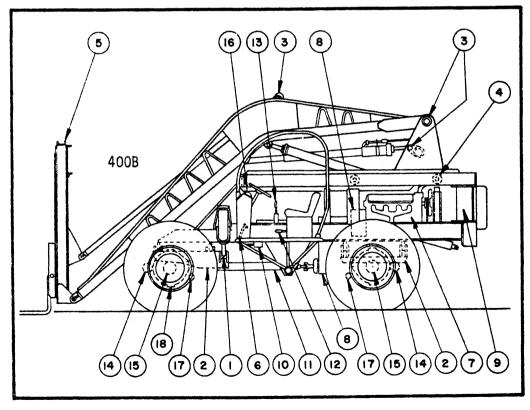
Engineering Company, Inc.

3045 HIGHWAT 13 . ST. PAUL, MINNESOTA SSIZIAAREA CODE 612 TEL. 454-4300

| ITEM | PART | LUBRICANT | SERVICE | CHANGE |
|------------------|-----------------------------------|-------------------------|----------|----------|
| 1 | Side Tilt Cylinder Pins | Super Permalube Grease | Daily | |
| , | Oscillation Frames | Super Permalube Grease | Daily | |
| 2 | Lift Arm, Tilt Linkage | | • | |
| • | Toggle & Cylinder Pivots | Super Permalube Grease | Daily | |
| 4 | Transverse Frame Rollers | Super Permalube Grease | Daily | |
| 4 5 6 7 | Tower | Super Permalube Grease | Daily | |
| 6 | Brake Pivot Shaft | Super Permalube Grease | Daily | |
| 7 | Engine: Below 32° F. | AMOCO 200 SAE 10W | Daily | 100 Hrs. |
| | Above 32° F. | AMOCO 200 SAE 30 | Daily | 100 Hrs. |
| | Oil Filter Element | _ | | 300 Hrs. |
| | Air Cleaner: Dry | Dump Dust Cover | Daily | As Req. |
| | Radiator | Perma-Guard Anti-Freeze | Daily | Yearly |
| | Battery | Distilled Water | Daily | |
| 8 | Torque Converter & Transmission | Allison Type C3 | Daily | 300 Hrs. |
| | Transmission Filter Element | | | 300 Hrs. |
| 9 | Hydraulic Tank | Rykon 011 No. 21 | Daily | Yearly |
| 10 | Brake Cylinder | Brake Fluid | Weekly | |
| 11 | Drive Shaft | Super Permalube Grease | Weekly | |
| 12 | Axle Disconnect | Super Permalube Grease | Weekly | |
| 13 | Emergency Brake | Super Permalube Grease | Weekly | |
| | Emergency Brake | AMOCO 200 SAE 20 | Weekly | |
| 14 | Front & Rear Steering Cyl. Pivots | Super Permalube Grease | Weekly | |
| 15 | Axle Ball Joints | Super Permalube Grease | Weekly | |
| 16 | Forward & Reverse Controls | Super Permalube Grease | Weekly | |
| 17 | Tie Rod Ends | Super Permalube Grease | Weekly | |
| 18 | Axles - Diff. & Planetary Hubs: | American MD Coom CAE DO | Monthly | VESSI |
| | Below 32° F. | American MP Gear SAE 80 | Monthly | |
| | Above 32° F. | American MP Gear SAE 90 | mon uniy | rear ty |

TIRE PRESSURES - 50 Lbs.

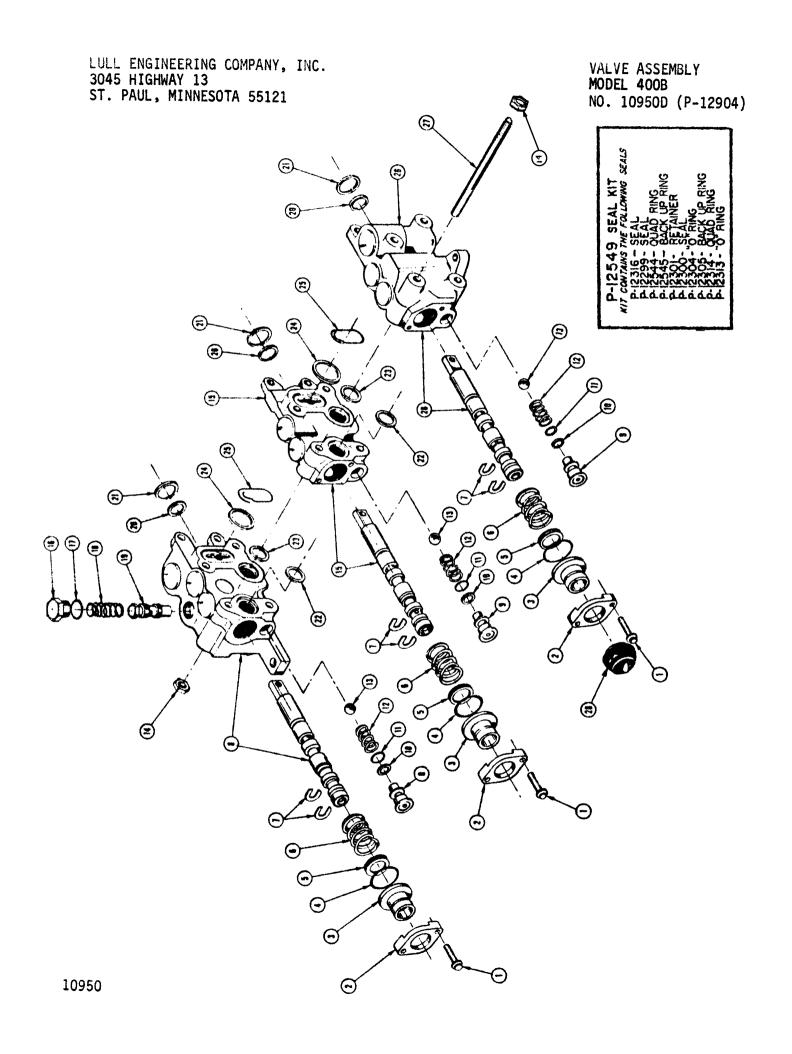
NOTE: USE AMERICAN OIL CO. LUBRICANTS SHOWN OR EQUAL



MISCELLANEOUS GREASE & LUBRICANTS MODEL 400B NO.14614

| ITEM | PART | DESCRIPTION | QTY |
|---|--|--|--|
| 1 | P17563 | Engine Oil (225 Chrysler) AMOCO 200 SAE 10W30 (MIL-L-2104B) Rated By API For S-D Service | 5 Qts. |
| | P18969 | (283 Waukesha Diesel) AMOCO 300 SAE 30-S-3 (MIL-L-45199B or MIL-L-2104C) Rated By API For C-D Service | 11 Qts. |
| 2 | P17564 | Power Shift Transmission Oil AMCO Dextron AFT (See Lube Chart) | 20 Qts. |
| 3 | P12089 | Oil Filter(225 Chrysler) | 1 |
| | P19513 | (283 Waukesha) | 1 |
| 4 | P15261 | Fuel Filter (225 Chrysler) | 1 |
| | P17316 | (283 Waukesha) | 1 |
| 5 6 7 8 9 10 11 12 13 | P17566 P16686 P17565 P17565 P19133 P15050 | Cooling System Anti-Freeze Hydraulic Oil Gasoline Brake Fluid Axle-Differential (American MP Gear-SAE-90) Axle Planetary Ends (Am. MP Gear-SAE-90) Transmission Filter Reservior Breather Hydraulic Reservior Filter Element | 12 Qts. 25 Gal. 20 Gal. 3/4 Qt. 11 PTS. 5 PTS. 1 |

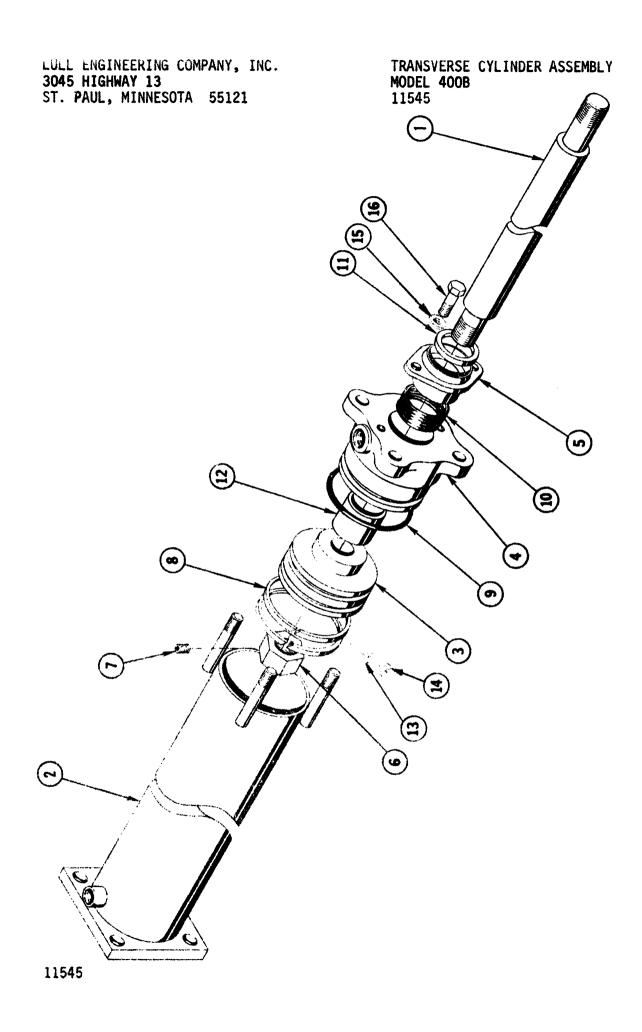
For Recommended Service, See Lube Chart



VALVE ASSEMBLY MODEL 400B NO. 10950D (P-12904)

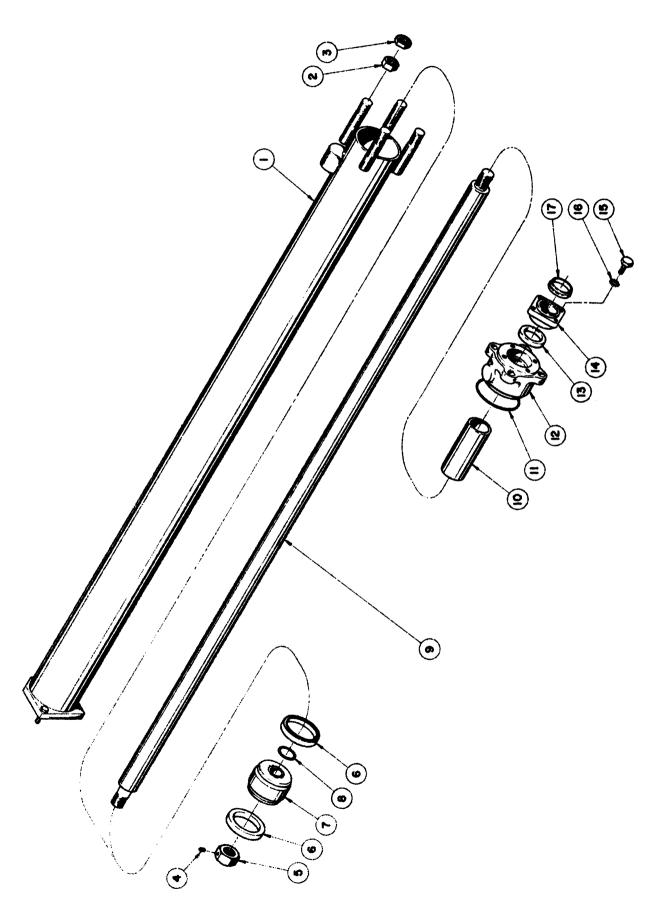
| ITEM NO. | PART NO. | ASSEMBLY NO. | DESCRIPTION | NO. REQ. |
|--|---|-----------------|--|---|
| 1 2 3 4 5 6 7 8 9 0 1 1 1 2 1 3 1 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P-12311 P-12312 P-12310 *P-12313 *P-12315 P-12309 P-12546 P-12306 *P-12306 *P-12307 P-12307 P-12307 P-12285 P-12296 P-12547 *P-12547 *P-12547 *P-12547 *P-12544 *P-12544 *P-12544 *P-12544 *P-12544 *P-12545 *P-12300 *P-12301 P-12548 P-12543 | | Screw Retainer Sleeve O-Ring Quad Ring Spring C-Washer Section & Spool Plug Back Up Ring O-Ring Spring Ball Nut Section & Spool Plug O-Ring Spring Valve Control Quad Ring Back Up Ring Spring Valve Control Quad Ring Back Up Ring Seal Seal Seal Seal Seal Setainer Section & Spool Stud | 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 28 | P-13317 | | Dust Cover | 5 |

^{*} Included in P-12549 Seal Kit.



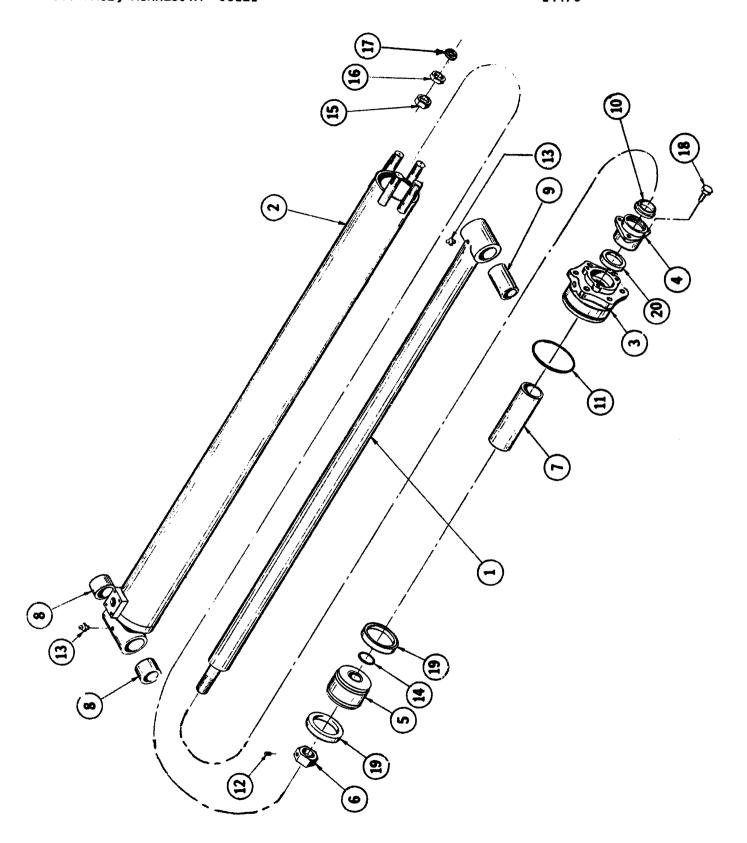
TRANSVERSE CYLINDER ASSEMBLY MODEL 400B 11545

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------------------------|----------------|---------------------------------|--------|
| 1 | 11074 | Piston Rod | 1 |
| 2 3 4 5 6 7 | 11075 | Cylinder Tube | 1 |
| 3 | 551 1028 | Piston Head | 1 |
| 4 5 | 1032 | Gland | 1 |
| 6 | 222 | Nut (Special) | î |
| 7 | Com'1 | Setscrew 1/4-20 N.C. X 3/8" Lg. | ī |
| 8 9 | P11346 | Ring Ass'y | 2 |
| | P10314 | 0-Ring | 1 |
| 10 | P10306 | V-Packing | 1 |
| 11 | P10308 | Kozure, Wiper | 1 |
| 12 | N-10229 | Spacer | 1 |
| 13 | Com'l | Nut, Full 1/2 N.F. | 4 |
| 1 4 15 | Com'l | Nut, Jam 1/2 N.F. | 4 2 |
| 16 | Com'l | Lockwasher, Shakeproof | |
| 10 | COIII 1 | Capscrew 3/8 N.C. X 1" Lg. | 2 |

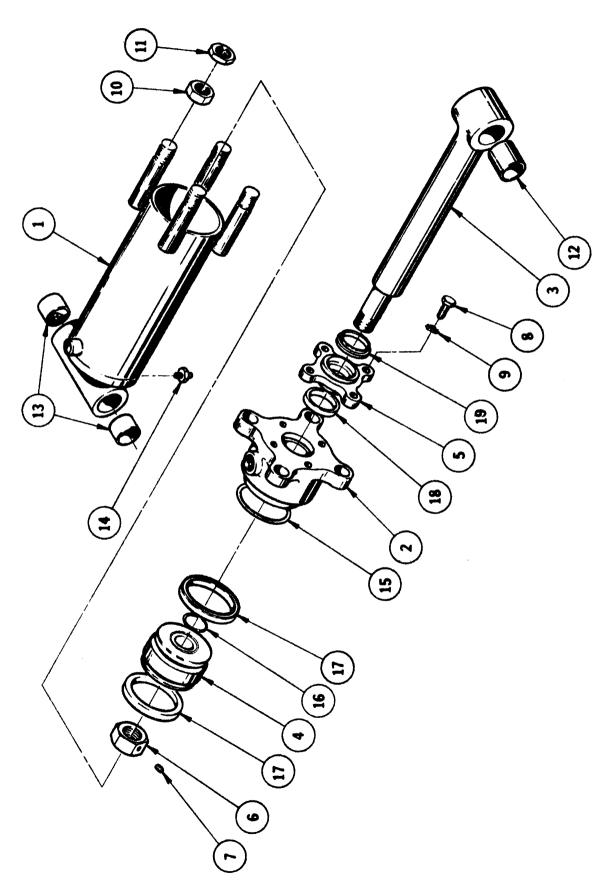


TOWER CYLINDER ASSEMBLY MODEL 400B NO. 14135

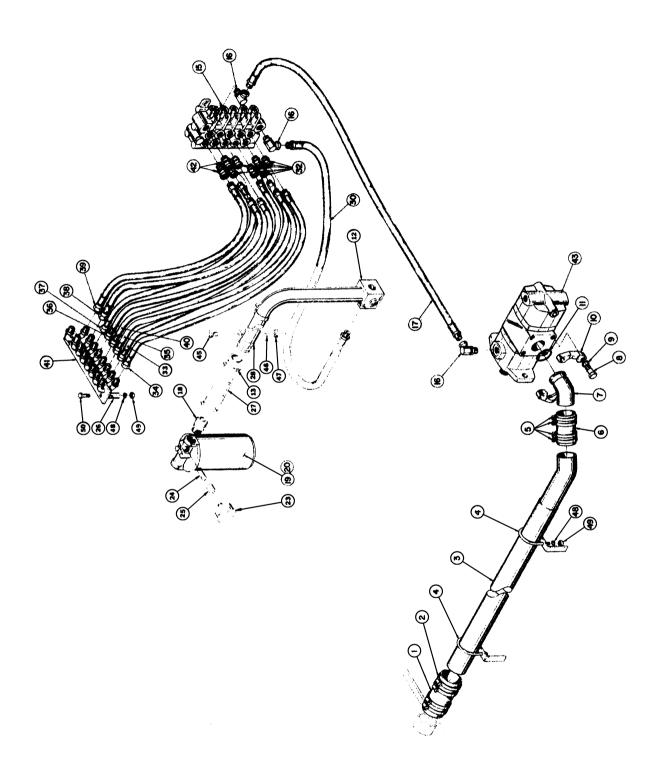
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|-----------------------|---|--|----------------------------|
| 1 2 3 4 5 | 14128 Com'l Com'l Com'l 222 P17549 | Cylinder Tube Nut, Hex 7/16-20 N.F. Nut, Jam 7/16-20 N.F. Set Screw, 1/4-20 N.C., Cup Pt. Nut, Piston Seal, Piston | 1 4 4 1 1 2 |
| / | 14139 | Piston | 1 |
| 8 | P13452 | O-Ring | |
| 9 | 14136 | Rod, Piston | |
| 10 | 14140 | Spacer | 1 |
| 11 | P10315 | O-Ring | |
| 12 | 14137 | Head | 1 1 1 4 |
| 13 | P17550 | Seal, Rod | |
| 14 | 14138 | Gland | |
| 15 | Com'1 | Cap Screw 5/16-18 N.C. X 1" Lg. | |
| 16 | Com'l | Washer, Shakeproof | 4 |
| 17 | P17551 | Wiper | |



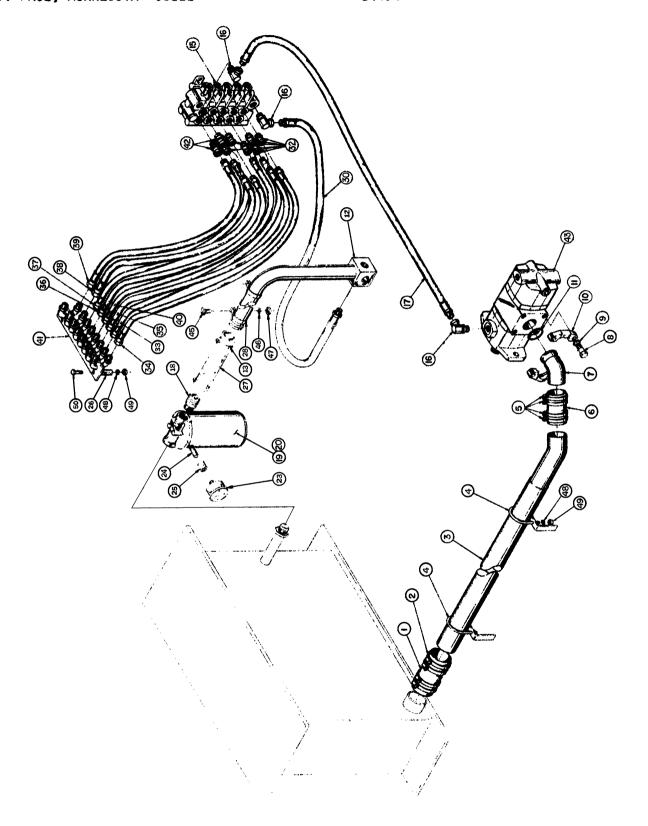
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------------------------|----------------|----------------------------------|--------|
| 1 | 14043 | Rod, Piston | 1 |
| 2 | 14477 | Tube Cylinder | ī |
| 3 | 545 | Head | ī |
| 4 | 14013 | Gland | ī |
| 5 | 14010 | Piston | ī |
| 2 3 4 5 6 7 | 215 | Nut, Piston | ī |
| 7 | 14032 | Spacer | ī |
| 8 9 | 4873 | Bushing | 2 |
| 9 | 3304 | Bushing | ī |
| 10 | P17459 | Wiper, Rod | ī |
| 11 | P10316 | 0-Ring | ī |
| 12 | Com'1 | Set Screw 1/4-20 N.C. X 3/8" Lg. | ī |
| 13 | Com'l | Zerk | 2 |
| 14 | P11576 | 0-Ring | 2 1 |
| 15 | Com'1 | Nut, Hex 1/2 N.F. | 4 |
| 16 | Com'1 | Nut, Jam 1/2 N.F. | 4 |
| 17 | Com'1 | Lockwasher, Shakeproof | 4 |
| 18 | Com'1 | Cap Screw 5/16 N.C. X 1" Lg. | |
| 19 | P17457 | Seal Piston | 4 2 |
| 20 | P17458 | Seal Rod | ī |



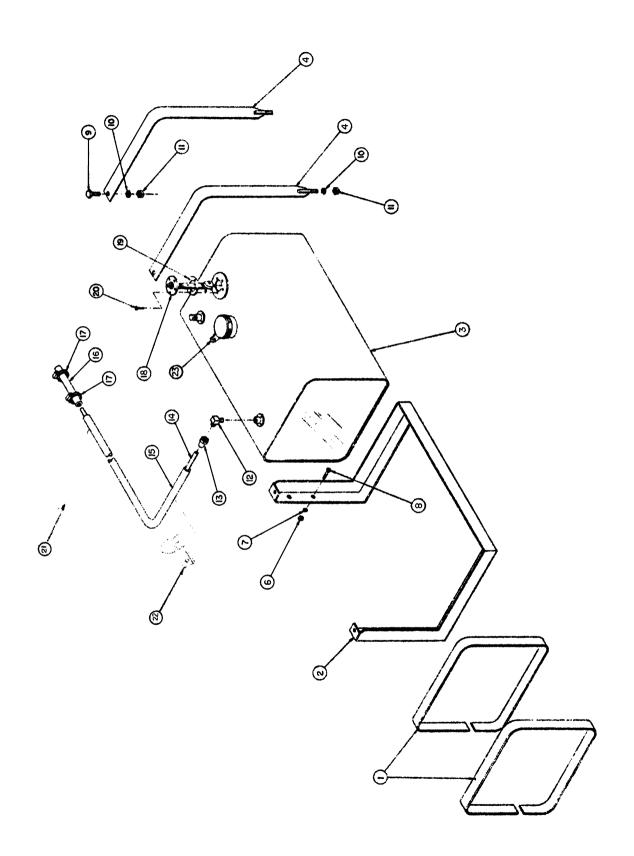
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--|----------------|---------------------------------|-----|
| | | | |
| 1 | 14482 | Tube Weldment | 1 |
| 2 | 545 | Head | 1 |
| 2 3 4 5 6 7 8 9 10 | 13686 | Rod | 1 |
| 4 | 14009 | Piston | 1 |
| 5 | 14013 | Gland | 1 |
| 6 | 215 | Nut | 1 |
| 7 | Com'1 | Setscrew 1/4-20 N.C. X 3/8" Lg. | 1 |
| 8 | Com'l | Capscrew 5/16-18 N.C. X 1" Lg. | 4 |
| 9 | Com'1 | Lockwasher, Shakeproof 5/16" | 4 |
| | Com'1 | Nut, Hex 1/2-20 N.F. | 4 |
| 11 | Com'1 | Nut, Jam 1/2-20 N.F. | 4 |
| 12 | 13691 | Bushing | 1 |
| 13 | 4873 | Bushing | 2 |
| 14 | P16611 | Zerk, Str. 1/8 N.P.T. | 1 |
| 15 | P10316 | 0-Ring | 1 |
| 16 | P11576 | 0-Ring | 1 |
| 17 | P17457 | Seal, Piston | 2 |
| 18 | P17458 | Seal, Rod | 1 |
| 19 | P17459 | Wiper, Rod | 1 |



| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--|---|--|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | P20475 P11124 14765 P17834 P10553 P20474 16290 P17836 Com'1 P17672 P12971 P19140 P10600 | Hose,3" I.D. X 4" LG. Clamp Suction Tube U-Clamp Clamp Hose, 2½" I.D. X 4" LG. Elbow Weldment Capscrew 1/2-13 N.C. X 1 1/2" Lg. (Gr. 8) Lockwasher 1/2" Flange O-Ring Manifold, Return Clamp | 1 4 1 2 4 1 1 4 4 2 1 1 2 |
| 15 16 17 18 19 20 21 | 10950 P12906 P14983 P18142 P13586 P13587 | Valve Control Adapter Hose Nipple, Swagged Element Filter | 1 3 1 1 1 |
| 22 23 24 25 26 27 28 | N-10721 P13588 Com'l P10665 N-10345 P17840 P17593 | Spacer 3/4" Str. Pipe X 1/2" Lg. (Diesel Only Guage Nipple (Diesel Only) Coupling (Diesel Only) Spacer (Diesel Only) Hose Clamp | 1 1 1 2 1 2 |
| 29 30 | P11178 | Hose | 1 |
| 31 32 33 34 35 36 37 38 39 40 41 42 43 44 | P12908 P10272 P12945 P10453 P15117 P12944 P12943 P10456 P13342 P19274 P12907 P18128 | Fitting Hose Hose Hose Hose Hose Hose Hose Hose | 6 1 1 1 1 1 1 1 2 1 |
| 45 46 47 48 49 50 | Com'l Com'l Com'l Com'l Com'l Com'l | Capscrew 5/16-18 N.C. X 1" Lg. Lockwasher 5/16" Nur, Hex 5/16-18 N.C. Lockwasher Nut, Hex 3/8-16 N.C. Capscrew 3/8-16 N.C. X 2" Lg. (Gas) Capscrew 3/8-16 N.C. X 5" Lg. (Diesel) | 2 2 2 2 2 2 |



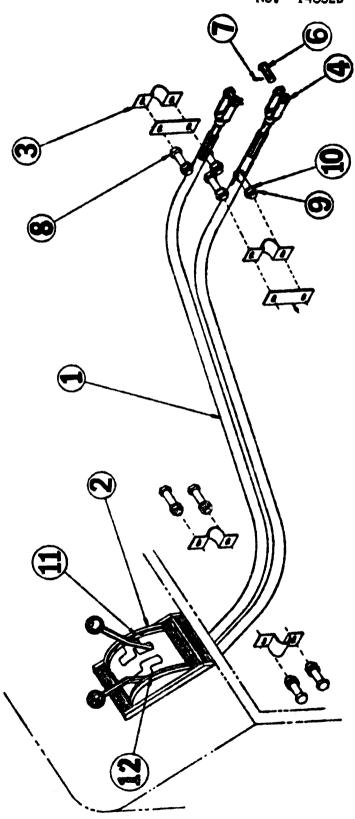
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--------------------------------------|----------------|--|----------------------------|
| 1 | P17842 | Hose | 1 |
| 2 | P11124 | Clamp | 4 |
| 3 | 14765 | Suction Tube | 1 |
| 2 3 4 5 6 7 8 9 | P17834 | U-Clamp | 1 2 4 1 1 4 |
| 5 | P10553 | Clamp | Λ |
| 6 | P17841 | Hose | ĭ |
| 7 | 14312 | Elbow Weldment | ī |
| 8 | P17836 | Capscrew 1/2-13 N.C. X 1 1/2" Lg. (Gr. 8) | 4 |
| 9 | Com'l | Lockwasher 1/2" | 4 |
| 10 | P17672 | Flange | 4 2 1 1 2 |
| 11 | P12971 | 0-Ring | 1 |
| 12 | P19140 | Manifold, Return | ī |
| 13 | P10600 | Clamp | 2 |
| 14 | | • | _ |
| 15 | P12904 | Valve Control | 1 |
| 16 | P12906 | Adapter | 1 3 1 1 |
| 17 | P14983 | Hose | ĭ |
| 18 | P18142 | Nipple, Swagged | ī |
| 19 | P13586 | Element | ī |
| 20 | P13587 | Filter | ī |
| 21 | | | • |
| 22 | N-10721 | Spacer 3/4" Str. Pipe X 1/2" Lg. (Diesel Only) | 2 |
| 23 | P13588 | Guage | 1 |
| 24 | Com'1 | Nipple (Diesel Only) | 1 |
| 25 | P10665 | Coupling (Diesel Only) | ī |
| 26 | N-10345 | Spacer (Diesel Only) | 1 1 1 2 |
| 27 | P17840 | Hose | ī |
| 28 | P17593 | Clamp | 2 |
| 29 | | | _ |
| 30 | P11178 | Hose | 1 |
| 31 | | | _ |
| 32 | P12908 | Fitting | 6 |
| 33 | P10272 | Hose | |
| 34 | P12945 | Hose | 1 1 |
| 35 | P10453 | Hose | 1 |
| 36 | P15117 | Hose | ī |
| 37 | P12944 | Hose | 1 |
| 38 | P12943 | Hose | ī |
| 39 | P10456 | Hose | ī |
| 40 | P13342 | Hose | |
| 41 | P19274 | Hose Terminal | 1 1 2 1 |
| 42 | P12907 | Fitting | 2 |
| 43 | P18192 | Pump (P13770 Flow Control) | 1 |
| 44 | | , | |
| 45 | Com' 1 | Capscrew 5/16-18 N.C. X 1" Lg. | 2 |
| 46 | Com'1 | Lockwasher 5/16" | 2 |
| 47 | Com'1 | Nur, Hex 5/16-18 N.C. | 2 |
| 48 | Com'1 | Lockwasher | 2 |
| 49 | Com' 1 | Nut, Hex 3/8-16 N.C. | 2 |
| 50 | Com'1 | Capscrew 3/8-16 N.C. X 2" Lg. (Gas) | 2 2 2 2 2 2 |
| | Com' 1 | | |
| | COM I | Capscrew 3/8-16 N.C. X 5" Lg. (Diesel) | 2 |



FUEL TANK ASSEMBLY MODEL 400B (GAS) 14498

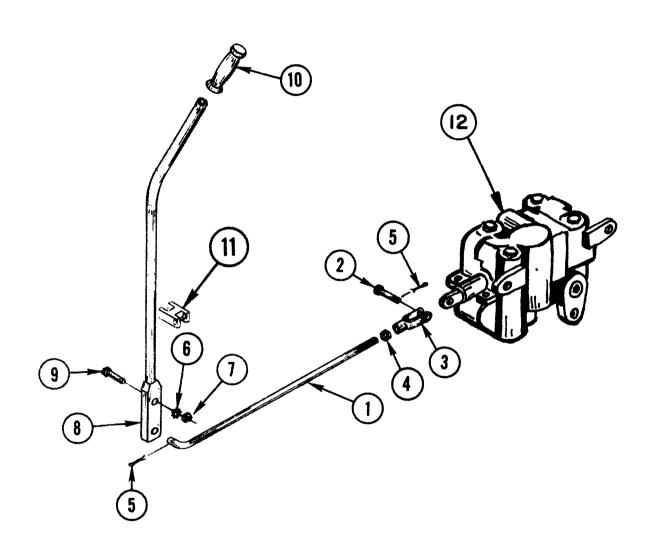
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|---|-------------------------------------|--|----------------------------|
| 1 2 3 4 5 6 7 8 9 | P10521 8700 P11401 3530 | Tank Webbing Bracket Weldment Fuel Tank Strap Weldment | 2 1 1 2 |
| 6 | Com'l | Full Nut, 5/16-18 N.C. | 4 |
| 7 | Com'l | Lockwasher 5/16" | 4 |
| 8 | Com'l | Capscrew, Flathead 5/16-18 N.C. X 2" Lg. | 4 |
| 11 | Com'l Com'l | Capscrew 1/4-20 N.C. X 3/4" Lg. Lockwasher 1/4" Full Nut 1/4-20 N.C. | 4 2 4 4 |
| 12 | P15304 | Fitting Fitting Tubing 5/16" | 1 |
| 13 | P15311 | | 1 |
| 14 | P14057 | | 100" |
| 15 | P16727 | Loom Hose Hose Clamp | 99" |
| 16 | P16665 | | 4 |
| 17 | P14047 | | 2 |
| 18 19 20 21 | P12964 P16125 Com'l P17553 | Sender, Fuel Gauge Gasket Screw 10/24 N.C. X 1/2" Lg. Clamp | 4 2 1 5 2 2 |
| 22 | P16658 | Clip | 2 |
| 23 | P12182 | Fuel Cap | |

SHIFTING CONTROL ASSEMBLY MODELS 844 TT - 34 Ft. 4D4B-23, 22 1/2, 34, 41 1/2 Et.. 400B NO. 14552D



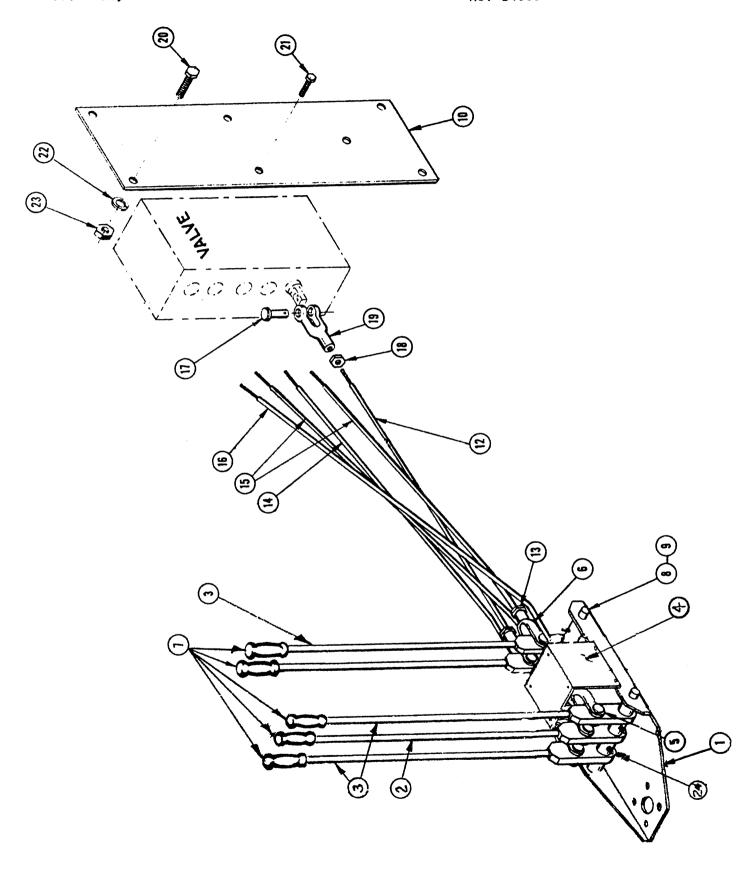
SHIFTING CONTROL ASSEMBLY MODELS 844 TT - 34 Ft. 4D48-23, 22 1/2, 34, 41 1/2 Ft. 4008 - 34, 21, Ft. NO. 14552D

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY. |
|-------------|--------|-----------------|----------------------------------|------|
| 1 | P17591 | | Cable, Control | 2 |
| 2 | P17589 | | Control, Shifting | Ï |
| 3 | P17678 | | Clamps | 4 |
| 4 5 6 | P17679 | | Clevis 1/4-28 UNF-3/8 Pin Hole | 2 |
| 5 | | | | _ |
| 6 | COM'L | | Clevis, Pin, 3/8" x 1" | 2 |
| 7 | COM'L | | Cotter Key, 1/8" x 1" | 2 |
| 8 9 | COM'L | | Capscrew, 10-32 x 7/8" Long | 8 |
| 9 | COM'L | | Nut | 8 |
| 10 | COM. L | | Lockwasher, Spring, 10-32 | 8 |
| 11 | REF. | | Decal, Shift Patern | |
| 2 | REF. | | Decal, Forward, Neutral, Reverse | |
| | | | | |
| 14 | | | | |
| 15 | P19128 | | Shim | 2 |



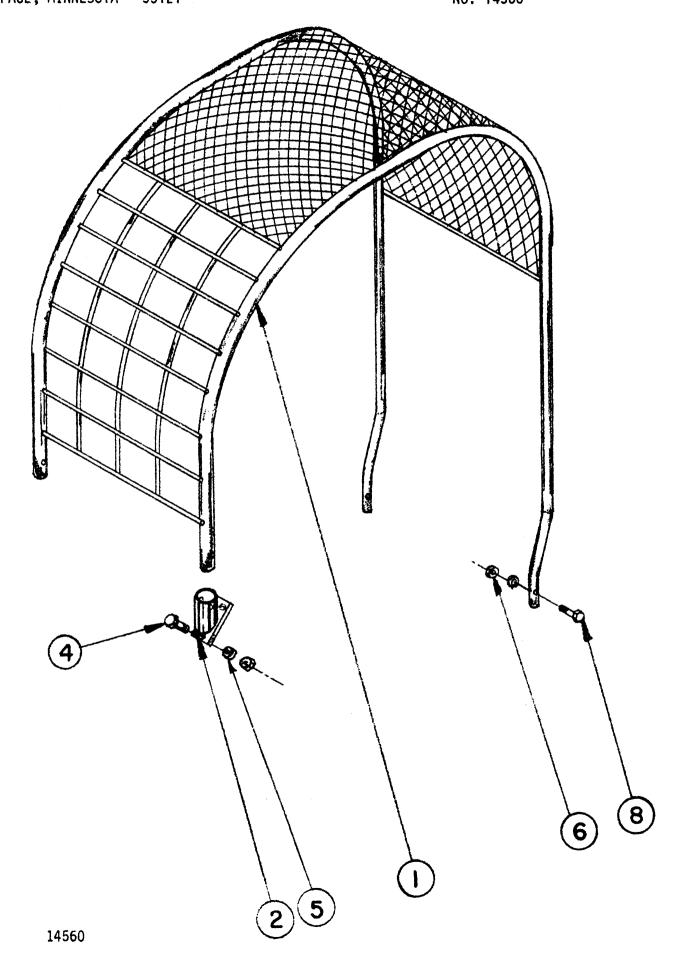
SIDE TILT CONTROL ASSEMBLY MODEL 400B NO. 14554

| ITEM | PART | SEE ASS'Y | DESCRIPTION | QTY |
|------|---------|-----------|-------------------------------|----------|
| 1 | 14607 | | Valve Connector Link | 1 |
| 2 | P-10512 | | Clevis Pin | 7 |
| 3 | P-10193 | | Clevis | 1 |
| 4 | COM'L | | Nut, 3/8-24 NF Hex Jam | 1 |
| 5 | COM'L | | Cotter Pin, 1/8 x 7/8 | 2 |
| 6 | COM'L | | Shakeproof Washer, 3/8 | 1 |
| 7 | COM'L | | Nut, 3/8-24 NF Hex | 1 |
| 8 | 3481 | | Side Tilt Lever | 1 |
| 9 | COM'L | | Capscrew, 3/8-24 NF x 2 1/4 H | ex Hd. 1 |
| 10 | P-10194 | | Rubber Grip | 1 |
| 11 | 8702 | | Lock | 1 |
| 12 | | P-13005 | Valve Ass'y | 1 |



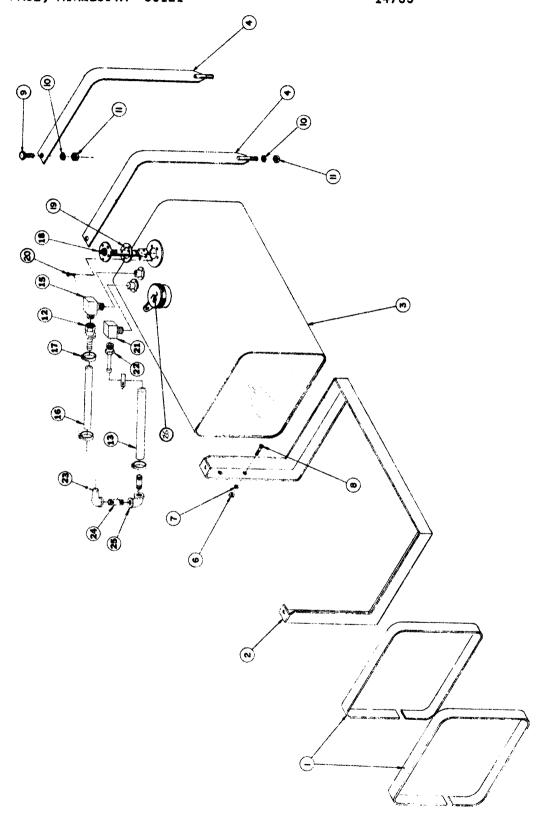
VALVE CONTROL ASSEMBLY MODEL 400B NO. 14555

| ITEM | PART | ASSEMBLY | OFFICE | OTV |
|--------------------------------------|--------|----------|----------------------------------|------------------|
| NO. | NO. | NO | DESCRIPTION | QTY |
| 1 | 14549 | | Valve Handle Bracket | 1 |
| | 14761 | | Valve Control Handle | 1 |
| 3 | 14760 | | Valve Control Handle | 4 |
| 4 | 14883 | | Plate | 1 |
| 5 | P10514 | | Clevis Pin | 5 |
| 6 | P10333 | | Clevis | 5 |
| 2 3 4 5 6 7 8 9 | P10012 | | Rubber Handle Grip | 5 5 5 2 |
| 8 | 14550 | | Pivot Shaft | 2 |
| 9 | 14762 | | Pivot Spacer | 1 |
| 10 | 10976 | | Valve Plate | 1 |
| 11 | | | | |
| 12 | 14567 | | Rod | 7 |
| 13 | Com'l | | Jam Nut, 1/2" - 20 N.F. | 5 |
| 14 | 14565 | | Rod | 1 |
| 15 | 14566 | | Rod | 2 |
| 16 | 14568 | | Rod | 7 |
| 17 | P10040 | | Clevis Pin | 5 |
| 18 | Com'l | | Jam Nut, 3/8" - 24 N.F. | 5 |
| 19 | P10193 | | Clevis | 5 |
| 20 | Com'l | | Bolt, 1/2" N.C. x 1-1/4" | 4 |
| 21 | Com'l | | Bolt, 3/8" N.C. x 1-1/4" | 3 |
| 22 | Com'l | | Lockwasher, 1/2" | 4 |
| 23 | Com'l | | Nut, 1/2" N.C. | 4 |
| 24 | Com'l | | Zerk, 1/4" - 28 N.F 2B, Straight | 6 |



OVERHEAD GUARD ASSEMBLY MODEL 400B NO. 14560

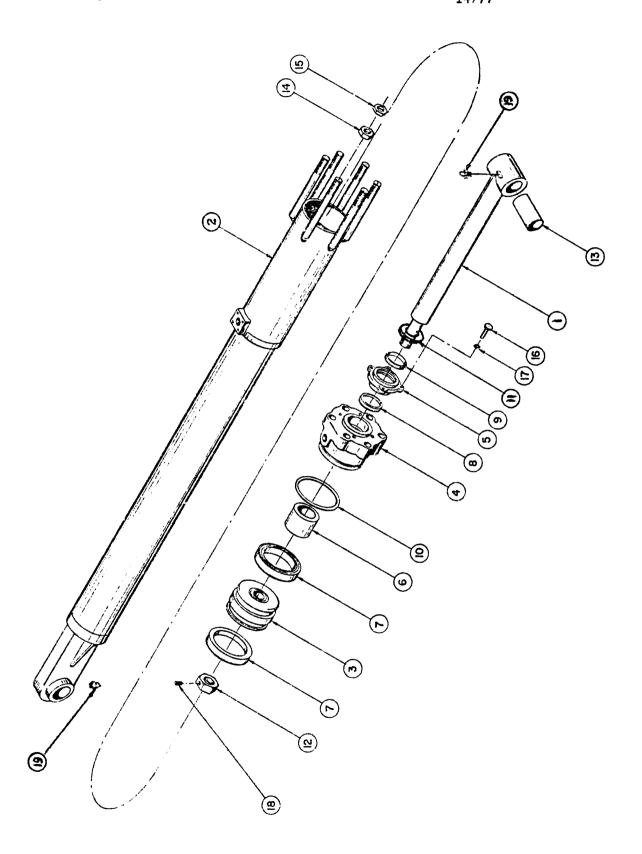
| ITEM | PART | SEE ASS'Y | DESCRIPTION | QTY |
|-------------|---------------|-----------|--|---------------|
| 1 2 | 2193 14536 | | Guard Front Guard Mount | 1 2 |
| 3 4 5 | Com'l | | Capscrew, 1/4 N/C x 3/4 lg. Lockwasher 1/4" | 4 6 |
| 6 7 | Com'l | | Nut, 1/4 N.C. | 6 |
| 8 | Com'l | | Capscrew, 1/4" N.C. X 1 3/4" Lg. | 2 |



FUEL TANK ASSEMBLY MODEL 400B (DIESEL) 14705

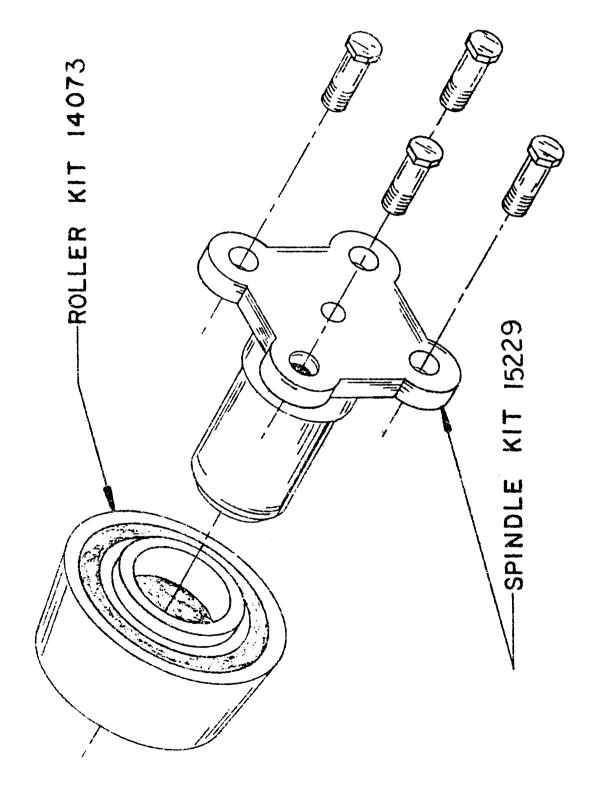
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--|---|---|---|
| 1 2 3 4 | P10521 8700 P11401 3530 | Gas Tank Webbing Bracket Weldment Fuel Tank Strap Weldment | 2 1 1 2 |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 | Com'l Com'l Com'l Com'l Com'l P13617 P13741 | Full Nut 5/16-18 N.C. Lockwasher 5/16" Capscrew, Flathead 5/16-18 N.C. X 2" Lg. Capscrew 1/4-20 N.C. X 3/4" Lg. Lockwasher 1/4" Full Nut 1/4-20 N.C. Fitting Hose | 4 4 2 4 1 1 |
| 14 15 16 17 18 19 20 21 22 23 24 25 | P15304 P17210 P14047 P12964 P16125 Com'l P13611 P13617 P10201 P10757 P10223 P12182 | Fitting 90° Elbow Hose Hose Clamp Sender Fuel Gauge Gasket Screws 10/24 X 1/2" Lg. Fitting Elbow Fitting Elbow Nipple 90° Elbow Fuel Cap | 1 1 4 1 1 5 1 1 1 2 1 |

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--|--|--|---|
| 1 2 3 4 5 6 7 8 | P17598 P17724 P17725 Com'l Com'l Com'l P17593 Com'l | Cooler Mount, Rubber T-Nut Bolt, Hex 5/16-18 N.C. X 2 1/2" Lg. Lockwasher, Spring 5/16" Washer, Flat 5/16" Clamp Lockwasher, Spring | 1 2 2 2 2 9 2 2 |
| 10 11 12 | Com'l P10821 P10819 | Nut, 3/8-16 N.C. Nipple (283 Waukesha) Nipple (225 Chrysler) | 1 1 1 |
| 14 15 16 17 | P17791 P17792 | Adapter Elbow 45° | 1 |
| 18 19 20 21 22 23 24 25 26 27 28 | P19489 P17790 P17812 P17813 6611B 6610B P17809 N-1026C Com'l | Hose (283 Waukesha) Hose (225 Chrysler) Tube Tube Clamp Clamp Clamp Spacer Bolt, Hex 5/16-18 N.C. X 3/4" Lg. Capscrew, 5/16-18 N.C. X 1" Lg. | 1 1 1 1 2 2 1 1 5 |
| 29 30 31 32 33 34 35 36 | P17799 P19499 P18120 P18841 P17802 Com'l | Hose 14" Lg. Hose 38" Lg. (283 Waukesha) Hose 27" Lg. (225 Chrysler) Hose 24" Lg. Elbow 90° Capscrew, 3/8-16 N.C. X 1 3/4" Lg. Nut, Hex 5/16-18 N.C. | 2 1 1 1 4 1 4 |
| 37 38 39 40 41 42 | P14147 P17805 16408A 16405 P19130 | Elbow 45° (283 Waukesha) Adapter (225 Chrysler) Bracket (283 Waukesha) Bracket (225 Chrysler) Hose, 23" Lg. Filter Base For S/N 2001 & 2002 | 1 1 1 1 1 |
| 43 44 | P19133 P17738 | Filter Element S ee P17841. Ass'y. Tee | 1 |



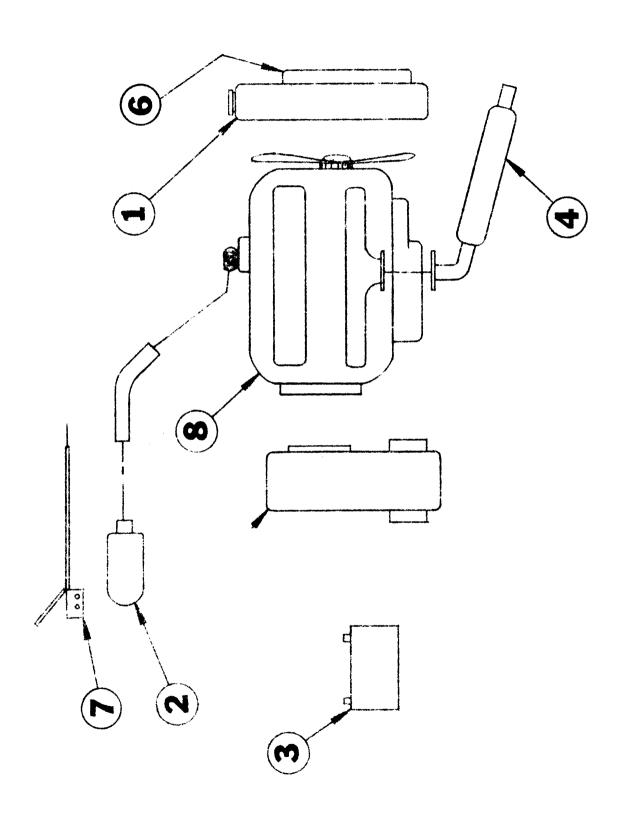
TILT CYLINDER ASSEMBLY MODEL 400B

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------------------------|----------------|---------------------------------|-------------|
| 1 | 14818 | Rod Weldment | 1 |
| 2 | 14780 | Tube Weldment | ī |
| 3 | 14149 | Piston | ī |
| 4 | 548 | Head | ī |
| 2 3 4 5 6 7 | 14090 | Gland | ī |
| 6 | 14778 | Spacer | 1 |
| 7 | P17532 | Seal, Piston | 2 |
| 8 9 | P17530 | Seal, Rod | 1 |
| 9 | P17531 | Wiper | 1 |
| 10 | P10318 | O-Ring, Head | 1 |
| 11 | P11576 | O-Ring, Piston | 1 |
| 12 | 215 | Nut | 1 |
| 13 | 14583 | Bushing | 2 |
| 14 | Com'1 | Nut, Hex Hd. 1/2-18 N.F. | 6 |
| 15 | Com'1 | Nut, Jam | 6 |
| 16 | Com'l | Capscrew 3/8-16 N.C. | 6 3 3 |
| 17 | Com' 1 | Lockwasher, Shakeproof | 3 |
| 18 | Com¹ 1 | Setscrew, 1/4-20 N.C. X 3/8 Lg. | 1 |
| 19 | Com'l | Zerk | 2 |



TOWER CARRIAGE SPINDLE & ROLLER KIT MODEL 400B 15229 & 14073

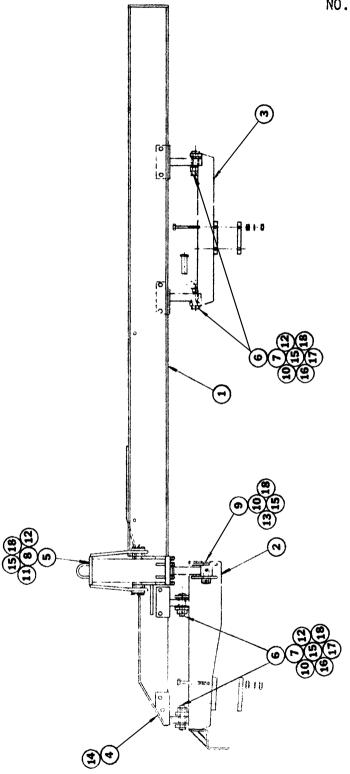
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|------|---|--|---------------|
| | 14073 | Roller Kit | 1 |
| | | Consists Of: | |
| | 6860 | Roller | 4 |
| | 15229 | Spindle Kit | 1 |
| | | Consists Of: | |
| | 15072 Com'l Com'l P15223 P15238 | Spindle Star Washer 7/16" Capscrew 7/16-14 N.C. X 1 1/4" Lg. Shim 1/32" Thick Shim 1/64" Thick | 4 16 16 |



DRIVE TRAIN ASSEMBLY MODEL 400B NO. 15234 (225 CHRYSLER) NO. 15417 (283 WAUKESHA)

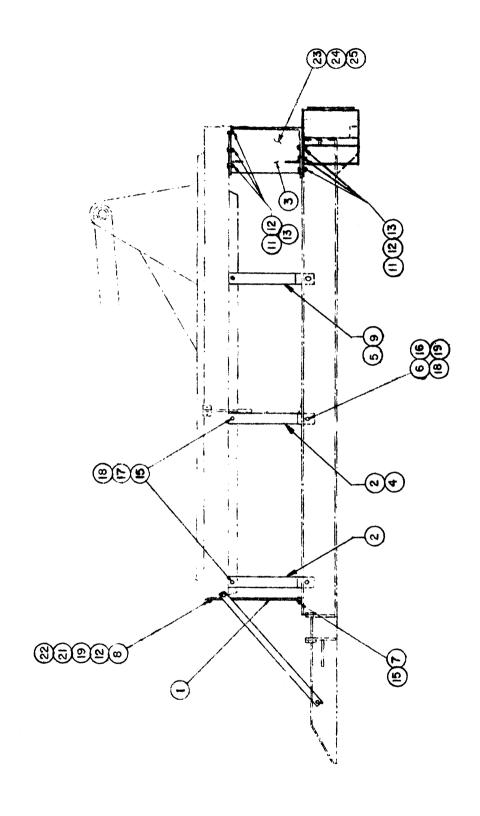
| ITEM | PART SEE ASS'Y | DESCRIPTION | ENGINE |
|------|------------------------|---|-------------------------|
| 1 | 16608 | Radiator Ass'y | 225 |
| 2 | 16607 16606 | Radiator Ass'y Air Cleaner Ass'y | 283 225 |
| 3 | 16605 16604 | Air Cleaner Ass'y Battery Box Ass'y | 283 225 |
| 4 | 16603 16602 | Battery Box Ass'y Exhaust System Ass'y | 283 225 |
| 5 | 16601 16600 | Exhaust System Ass'y Transmission & Support Ass'y | 283 225 & 283 |
| 6 | 14715 | (For Internal Transmission Parts, So Transmission Cooler Ass'y | |
| 7 | 15 426 15270 | Transmission Cooler Ass'y Throttle Ass'y For Proper S/N | 225 225 225 |
| · | 16345 16178 | Throttle Ass'y For Proper S/N Throttle Ass'y For Proper S/N | 283 225 & 283 |
| 8 | P17985 P17743 | Engine Ass'y (SEE APPENDIX) Engine Ass'y (SEE APPENDIX) | 225 a 283 225 283 |

MAIN FRAME ASSEMBLY MODEL 400B NO. 15235D (TILT) NO. 1543 D (NON-TILT)

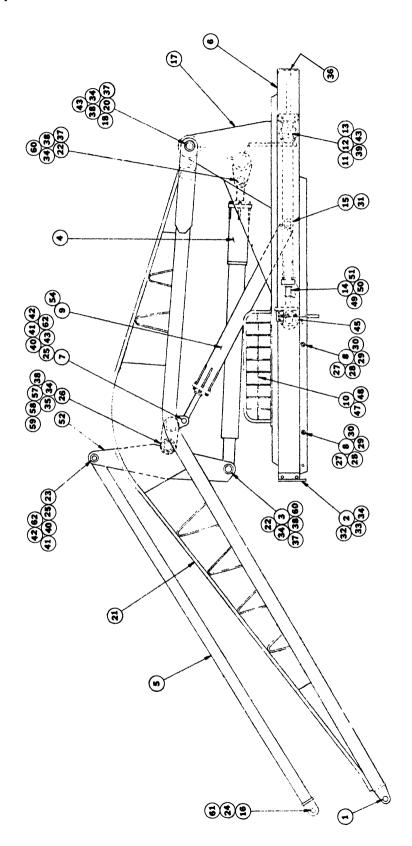


MAIN FRAME ASSEMBLY MODEL 400B NO. 15235D (TILT) NO. 1543 D (NON-TILT)

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|-----------------------|----------------|--|------------------|
| 1 | 14829R | Main Frame Weldment (Gas - Tilt Frame) | 1 |
| | 14829-1R | Main Frame Weldment (Diesel - Tilt Frame) | ī |
| | 14830 | Main Frame Weldment (Gas - Non-Tilt Frame) | î |
| | 14830-1R | Main Frame Weldment (Diesel - Non-Tilt Frame) | ī |
| 2 | 14880 | Frame, Front Oscill (Tilt Only) | ī |
| 3 | 13704 | Frame, Rear Oscill | ī |
| 2 3 4 5 6 | 13714 | Shield (Tilt Only) | ī |
| 5 | 14481 | Cylinder Ass'y | 1242422642642 |
| 6 | 5272A | Pivot Pin (Tilt Frame) | 4 |
| | 52 72 A | Pivot Pin (Non-Tilt Frame) | 2 |
| 7 | 6532 | Bushing (Tilt Frame) | 4 |
| | 6532 | Bushing (Non-Tilt Frame) | 2 |
| 8 9 | 13703A | Pin, Upper (Tilt Only) | 2 |
| | 6531A | Pin, Lower (Tilt Only) | 2 |
| 10 | com'l | Bolt, 3/8 N.C. X 2 1/2" Lg. (Tilt Frame) | 6 |
| | Com'1 | Bolt, 3/8 N.C. X 2 1/2" Lg. (Non-Tilt Frame) | 4 |
| 11 | Com'l | B51t, 3/8 N.C. X 2 3/4" Lg. (Tilt Only) | 2 |
| 12 | Com' 1 | Zerk, 1/8 N.P.T. Str. (Tilt Frame) | 6 |
| | com'l | Zerk, 1/8 N.P.T. Str. (Non-Tilt Frame) | 4 |
| 13 | Com' 1 | Zerk, 1/8 N.P.T. X 90" (Tilt Only) | |
| 14 | Com' 1 | Drive Screw 1/4 X 1/2" Self tapping (Tilt Only | y)6 |
| 15 | Com' 1 | Nut, 3/8 N.C. (Tilt Frame) | · · · |
| | Com' 1 | Nut, 3/8 N.C. (Non-Tilt Frame) | 4 |
| 16 | Com'1 | Lockwasher 3/8" | 8 4 4 4 |
| 17 | 4586 | Collar | 4 |
| 18 | P19481 | Retaining Ring (Tilt Only) | 8 |



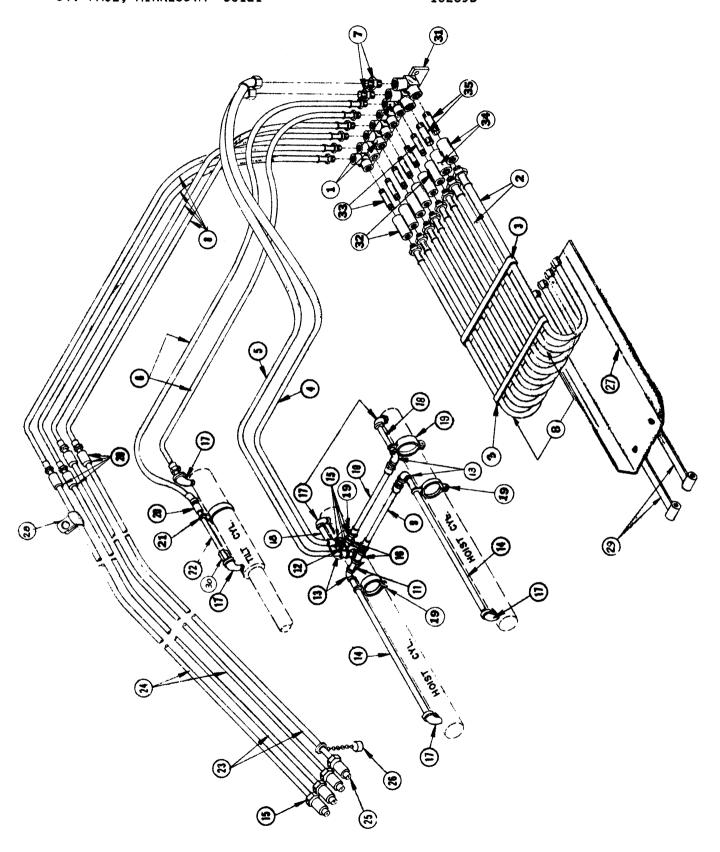
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|---|-----------------|---|---------|
| 1 | 14875 | X Brace | 2 |
| 2 | 11589 | Upright Supports | 2 3 |
| 3 | 15369 | Tank, Hydraulic | i |
| 1 2 3 4 5 6 7 8 9 | 14894 | Upright Support, Air Cleaner | ī |
| 5 | 15408 | Upright Support, R.H. Side, Rear | ī |
| 6 | N-10373 | Shear Block | 6 |
| 7 | P13518 | Capscrew, Hex Hd. 5/8 N.C. X 1 1/4" Lg. (| Gr. 5)2 |
| 8 | P13519 | Capscrew, Hex Hd. 5/8 N.C. X 1 1/2" Lg. (| |
| 9 | 15410 | Upright Support, L.H. Side, Rear | 1 |
| 10 | | | _ |
| 11 | P17671 | Nut, 1/2 N.C. (Gr. 5) | 12 |
| 12 | Com'l | Lockwasher 1/2" | 13 |
| 13 | P17658 | Capscrew, Hex Hd. 1/2 N.C. X 1 3/4" Lg. (| Gr.8)12 |
| 14 | | • | -, |
| 15 | Com'l | Washer, Shakeproof 5/8" | 8 |
| 16 | P1 766 9 | Capscrew, Hex Hd. 5/8 N.F. X 2 1/2" Lg. (| Gr. 5)6 |
| 17 | P17670 | Capscrew, Hex Hd. 5/8 N.F. X 3 1/4" Lg. (| Gr. 5)6 |
| 18 | P17665 | Nut, Full 5/8 N.F. (Gr. 5) | 12 |
| 19 | Com'l | Lockwasher 5/8" | 8 |
| 20 | | | |
| 21 | P17668 | Capscrew, Hex Hd. 1/2 N.F. X 2" Lg. (Gr. | 5) 1 |
| 22 | Com'] | Nut, 1/2 N.F. (Gr. 5) | 1 |
| 23 | P13595 | Drain Cock | 1 |
| 24 | P15050 | Filter Cap | 1 |
| 25 | Com'l | Plug 1/8 N.P.T. | 2 |



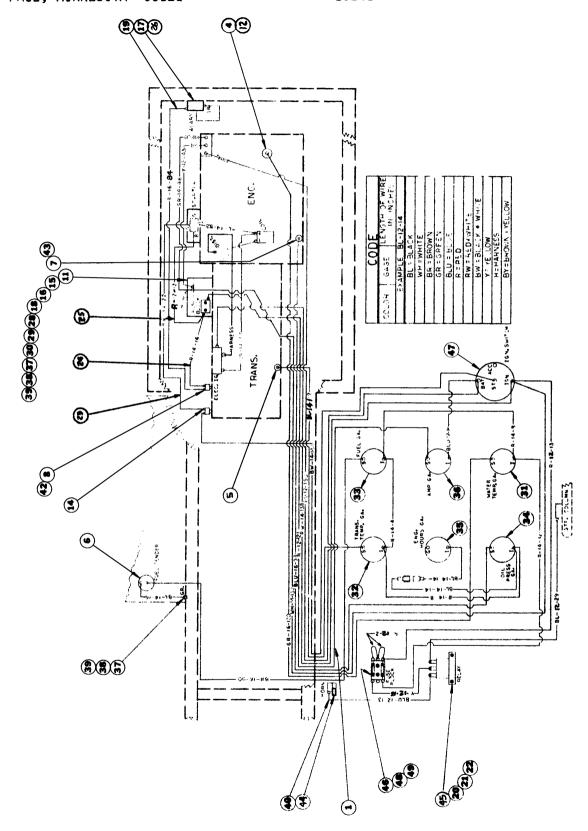
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--|--|---|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 | 7072 6901 14848B 14777D 14855C 14873D 5565A 11153 14476D 8789 6902 15073C 6826 | Pivot Pin Front Frame Bracket Pin Tilt-Cyl. Ass'y Front Parrell Transfer Frame Pivot Pin, Hoist Cylinder Truss Rod Hoist Cylinder Ass'y Operator Side Shield Bushing Spindle Rollar | 2 1 1 1 1 2 2 2 1 4 |
| 14 15 16 17 18 19 | 11545C 14849B 6964A 14836R 14859B | Transverse Cylinder Ass'y Pin, Hoist Cylinder Pin Transfer Carriage Pivot Shaft | 4 1 2 1 1 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 | 6423A 14799R 12290 14845 1150A 2561 7784 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 | Bushing Lift Arm Collar Pin, Toggle Collar Collar Bushing, Toggle Pivot Full Nut 5/8-11 N.C. Jam Nut 5/8-11-N.C. Lockwasher, Shakeproof 5/8 Lockwasher, 5/8 Screw, Flathead 3/8-16 N.C. X 1 1/2" Lg. Capscrew 1/2-20 N.F. X 1 1/2" Lg. (Gr. 5) Nut 1/2-20 N.F. Lockwasher 1/2 Pin, Toggle Pivot Capscrew 5/8-11 N.C. X 2 1/4" Lg. Capscrew 1/2-13 N.C. X 3 1/2 Lg. Nut, 1/2-13 N.C. Capscrew, 5/8-11 N.C. X 1 3/4" Lg. Capscrew 3/8-16 N.C. X 2 1/2" Lg. Nut 3/8-16 N.C. Lockwasher 3/8" Zerk 1/8 N.P.T. (Str.) | 2 1 2 1 2 1 3 2 4 4 4 9 1 2 4 5 1 6 3 7 8 6 6 |
| 45 46 | Com'1 | Zerk 1/8 N.P.T. X 90° | 2 |
| 47 48 49 | Com'l Com'l Com'l | Capscrew 5/16-18 N.C. X 1" Lg. Lockwasher 5/16" Nut, Full 1"-14 N.F. | 3 3 1 |

LOADER ASSEMBLY MODEL 400B 15237

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------------------|----------------------------|---|-------------|
| 50 51 52 53 | Com'l Com'l 14542 | Nut, Jam 1"-14 N.F. Lockwasher, Shakeproof 1" Toggle Weldment | 1 1 1 |
| 54 55 | 4873 | Bushing | 2 |
| 56 57 58 | Com'l 3965 | Bolt, 1/2-13 N.C. X 4" Lg. Collar | 1 1 |
| 59 60 61 | P19477 P19479 P19480 | Retaining Ring Retaining Ring Retaining Ring | 1 2 1 |
| 62 | P19481 | Retaining Ring | 3 |



| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--------------------------------------|----------------|--|---------------------------------|
| 1 | P18177 | Female Elbow | 2 |
| | P17175 | Hose | 2 |
| 3 | 1149 | Hose Strap | 2 |
| 4 | P15070 | Hose | 2 2 2 1 |
| 5 | P17176 | Hose | |
| 2 3 4 5 6 7 8 9 | P11397 | Hose | 1 2 2 |
| 7 | P12969 | Fitting | 2 |
| 8 | P11538 | Hose | 10 |
| | P12518 | Hose | 1 |
| 10 | P11308 | Hose | 1 |
| 11 | P10794 | Nipple | ī |
| 12 | P10884 | Nipple | 1 |
| 13 | P10225 | Elbow | 4 |
| 14 | N-10183 | Pipe | 4 2 8 2 6 2 4 |
| 15 | P10120 | Bushing | 8 |
| 16 | P10107 | Tee | 2 |
| 17 | P10117 | Street Ell. | 6 |
| 18 | P10888 | Pipe | 2 |
| 19 | 8967 | Cylinder Clamp | 4 |
| 20 | P10328 | Coupling | 5 |
| 21 | 8971 | Clamp (Not Used With Load Sensing Valve) | 1 |
| 22 | N-10569 | Pipe | 1 |
| 23 | N-10167 | Pipe | 1 2 2 |
| 24 | N-10168 | Pipe | 2 |
| 25 | P11354 | Coupling, Male | 4 |
| 26 | P10326 | Dust Cap | 4 |
| 27 | 893 5 | Hose Support | 1 |
| 28 | 6611 | Clamp | 6 |
| 29 | 13967 | Link, Hose Support | 2 |
| 30 | 15109 | Restricter | 1 |
| 31 | 15702B | Juntion Block | 1 |
| 32 | P10328 | Coupling | 6 |
| 33 | N-10716 | Pipe | 6 |
| 34 | P10260 | Coupling | 6 6 2 2 |
| 35 | N-10717 | Pipe | 2 |



| ITE | M PART | SEE ASS'Y. | DESCRIPTION | QTY |
|--------|-----------|------------|---|--------------|
| 1 | *P19122 | | Harness, Lower Wire (SEE NOTE) | 1 |
| 2 | *16567B | | Lower Terminal Conversion Kit (SEE NOTE) | î |
| 3 | *16567- | | Upper Terminal Conversion Kit (SEE NOTE) | 1 |
| 4 | **P18813 | | Water Temp. Sender | i |
| 5 | **P19472 | | Oil Temp. Sender for S/N 2036 & UP | i |
| 5 6 | **P20346 | | Fuel Sender, Use P18729 for S/N 2001 thru 2035 | 1 |
| 7 | **P18731 | | Eng. Oil Press. Sender | 1 |
| 8 | P19105 | | Press. Switch (For Back Up-Alarm) | i |
| 9 | P19284 | | Harness, Gauges Ground | 1 |
| 10 | 113204 | | narness, dadges dround | • |
| 11 | P19204 | | Voltage Regulator | 1 |
| 12 | P19838 | | Nut, 10-32 N.F. Left Hand Thread | 1 |
| 13 | 1 13000 | | Nuc, 10-32 N.S. Lest Hand Infeat | 1 |
| 14 | P18673 | | Switch, Neutral Start | 1 |
| 15 | P19103 | | Fuses, SFE 30-AMP | 1 |
| 16 | P17752 | | Fuse Holder, Battery Draw With Buss Bar | 1 |
| 17 | ***P13774 | | Alarm, Back-Up | 1 |
| 18 | 15536 | | Bracket, Fuse Holder (Use 14660B for S/N 2001 thru 2003 | 3) <u>1</u> |
| 19 | P19102 | | Harness, Back-Up Alarm | 3/1 |
| 20 | Com'1 | | Bolt, Hex Head 1/4-20 N.C. X 1/2" Lg. | 2 |
| 21 | Com'1 | | Nut, Hex 1/4-20 N.C. | 2 |
| 22 | Com'1 | | Lockwasher, Spring 1/4" | 2 |
| 23 | P19783 | | Harness, Neutral Start Switch to Starter | 1 |
| 24 | P19784 | | Harness, Back-Up Alarm Pressure Switch to Fuse Block | 1 |
| 25 | P19785 | | Harness, Fuse Block to Starter | i |
| 26 | ***17026A | | Bracket, Back-Up Alarm | 1 |
| 27 | *P19123 | | Harness, Upper Wire (SEE NOTE) | 1 |
| 28 | Com'l | | Bolt, Hex Head, 1/2-20 N.F. X 1/2" Lg. | 2 |
| 29 | Com'1 | | Lockwasher, Spring 1/2" | 2 |
| 30 | Com'1 | | Nut, Hex 1/2-20 N.F. | 2 |
| 31 | **P18735 | | Water Temp. Gauge | 1 |
| 32 | **P18734 | | Trans. Oil Temp. Gauge | 1 |
| 33 | **P18728 | | Fuel, Gauge | 1 |
| 34 | **P18730 | | Eng. Oil Press. Gauge | 1 |
| 35 | P18733 | | Hour Meter, Gauge | 1 |
| 36 | P18732 | | Ammeter, Gauge | ì |
| 37 | Com' 1 | | Screw, Round Hd. 10-24 N.C. X 1/2" Lg. | 4 |
| 38 | Com'1 | | Lockwasher, Spring 10 | 4 |
| 39 | Com'1 | | Nut, Hex 10-24 N.C. | 4 |
| 40 | P19101 | | Harness, Horn | ĭ |
| 41 | REF | | Kit, Horn Switch | i |
| 42 | P15093 | | Elbow, 1/8 NPT X 45 Degree | 1 |
| 43 | P10201 | | Elbow, 1/8 NPT X 90 Degree | 1 |
| 44 | P13707 | | Horn | i |
| 45 | P13709 | | Relay, Horn | 1 |
| 46 | . 10/03 | | neiwy genol ii | • |
| 47 | REF-156 | 82 | Switch, Ignition | 1 |
| 48 | P19096 | ~~ | Fuse, 3 Holder | i |
| 49 | P18079 | | Adheasive | A/R |
| | . 2007 5 | | ाणा। जन्म व ११ व | , |

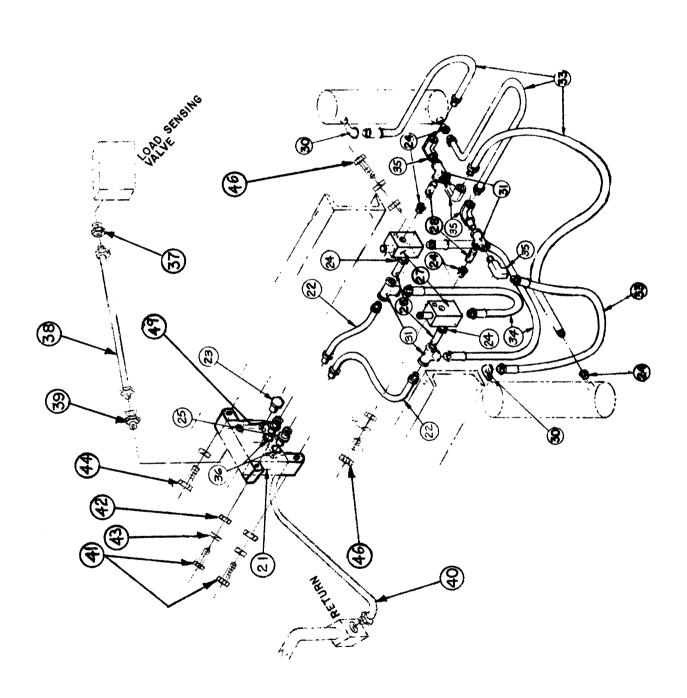
NOTE:

^{*} For repair, S/N 2001 Thru 2013, a terminal conversion kit (either item #2 for lower harness or item #3 for upper harness) must be purchased together with harness. Kit is NOT required when both an upper & lower harness are purchased together.

** For repair, S/N 2001 Thru 2035, gauges & senders must be purchased together.

*** For repair, S/N 2001 thru 2123, back-up alarm & bracket must be purchased

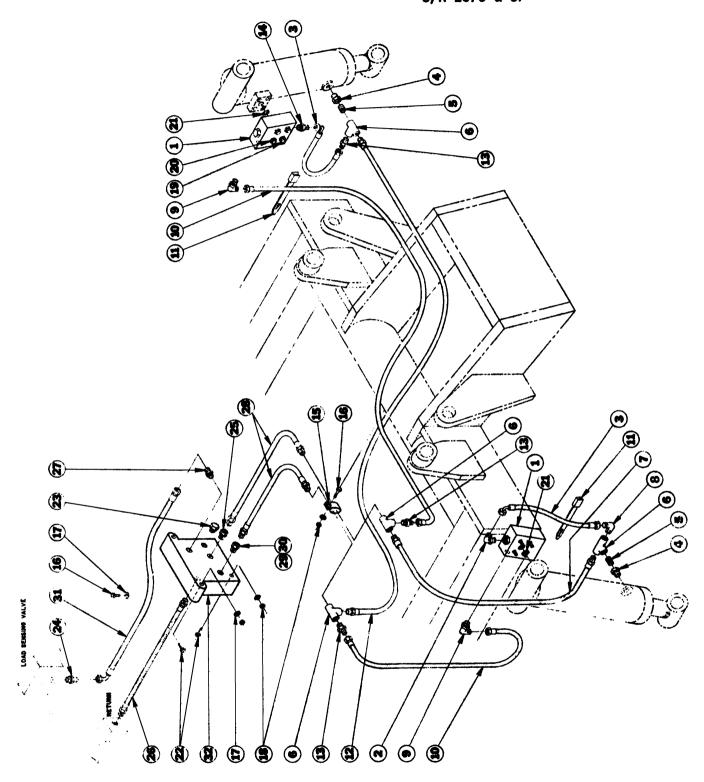
together.



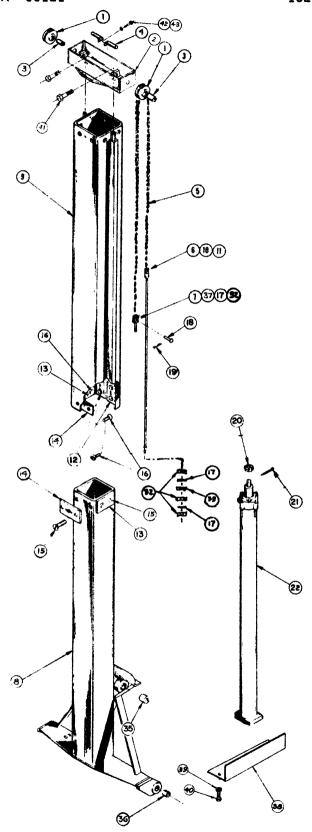
FRAME TILT HYD. ASSY. MODEL 400B NO. 15242D -1

| TEM | PART NO. | SEE ASS'Y. | DESCRIPTION | QTY. |
|---|---|---------------|--|---|
| 123456789000000000000000000000000000000000000 | P10476 P15447 P10691 P15464 | P13005 | Valve Control Hose 1/4 x 44" Lg. Plug Reducer Fitting | 1 2 1 6 1 2 2 2 |
| 26 2 7 28 | P10063 P13713 P15502 | | Nipple Safety Valve Nipple | 2 2 2 |
| 29 30 31 32 | P15582 P15554 | | Street Ell Tee | 2 4 |
| 32 33 34 35 36 37 38 39 40 41 42 43 44 45 47 48 | P14652 P11646 P10216 P10271 P18997 P19491 P15406 P10267 COM'L COM'L COM'L | | Hose 1/4 x 23" Lg. Hose 1/4 x 17" Lg. Fitting O-Ring Connector Hose Connector Hose Capscrew 3/8 - 16N.C. x 1-1/2" Lg. Nut 3/8 - 16N.C. Lockwasher 3/8 Capscrew 3/8 - 16N.C. x 1" Lg. Capscrew 3/8 - 16N.C. x 2-3/4" Lg. | 4 2 4 2 1 1 1 2 4 5 1 |
| 48 49 50 | 16569A | | Fitting Assy. | 1 |

FRAME TILT HYDRAULICS ASS'Y MODEL 400B NO. 15242-2 S/N 2073 & UP

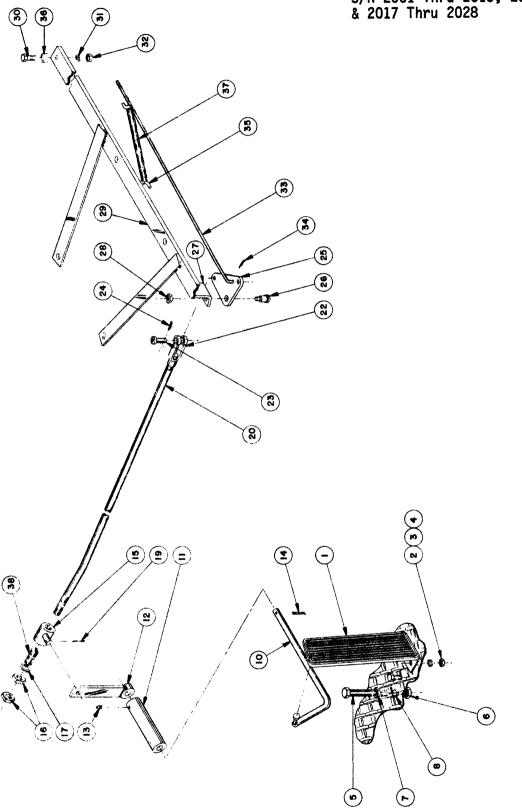


| ITEM | PART | SEE ASS'Y | DESCRIPTION | QTY |
|----------------------------|--------|-----------|------------------------------|--|
| 1 | P17686 | | Valve, Counter Balance | 2 |
| 2 3 4 5 6 7 | P19248 | | Elbow 90° | 2 1 2 2 2 4 1 1 1 2 2 2 1 1 1 1 1 1 1 1 |
| 3 | P20449 | | Hose | 2 |
| 4 | P10691 | | Reducer | - 2 |
| 5 | P16965 | | Closed Nipple | 2 |
| 6 | P15554 | | Tee | 4 |
| 7 | P14652 | | Hose | i |
| 8 | P18945 | | Elbow 90° | ī |
| 9 | P18935 | | Elbow 90° | 2 |
| 10 | P19889 | | Hose | 2 |
| 11 | P17987 | | Tyrap | 2 |
| 12 | P10476 | | Hose | 1 |
| 13 | P19062 | | Connector | 3 |
| 14 | P18960 | | 0-Ring Connector | 1 |
| 15 | P17593 | | C1 amp | 1 |
| 16 | Com' 1 | | Bolt, 3/8-16 N.C. X 1" LG. | 2 |
| 17 | Com'l | | Lockwasher, 3/8" | 4 |
| 18 | Com'l | | Nut, Hex 3/8"-16 N.C. | 3 |
| 19 | Com'l | | Bolt, 5/16"-18 N.C. X 2" LG. | 8 |
| 20 | Com'l | | Lockwasher, 5/16" | 8 |
| 21 | P15026 | | 0-Ring | 2 |
| 22 | Com'l | | Bolt, 3/8"-16 N.C. X 1½" LG. | 2 |
| 23 | P15447 | | Plug | 1 |
| 24 | P18944 | | Fitting | 1 |
| 25 | 16569A | | Fitting Assembly | 1 |
| 26 | P10274 | | Hose | 1 |
| 27 | P15406 | | Connector | 1 |
| 28 | P10474 | | Hose | 2 |
| 29 | P15464 | | Fitting | 1 |
| 30 | P10271 | | 0-Ring | 1 1 2 1 1 |
| 31 | P17958 | | Hose | 1 |
| 32 | P13005 | | Valve, Control | 1 |



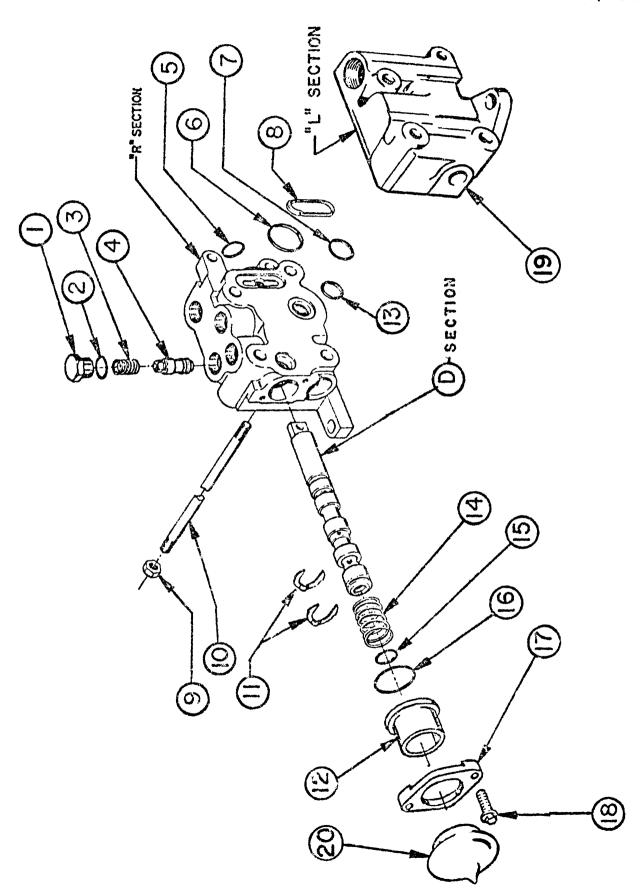
| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|---|---|---|----------------------|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 23 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | 14979 14978C 7965 14992B P17947 15025B 15055B 14122D 14995D Com'1 Com'1 14132 14133 6911 P17561 P17676 Com'1 P17979 Com'1 Com'1 Com'1 Com'1 Com'1 | Chain Pulley Chain Pulley Bracket Bushing Pivot Pin Chain 65" Long Chain Link Chain Anchor Upright Frame Weldment Yoke Weidment Washer, Starlock 1/2" Hex, Nut 1/2-20 N.F. Bronze, Wear Plate Bronze, Wear Plate Bronze, Wear Plate Capscrew, Flat Head 1" Lg. Capscrew, Flat Head 3/4" Lg. Washer, Starlock 5/8" Anchor Cotter Pin 1/16 X 3/4" Lg. Hex. Cast Nut 1"-12 N.F. Cotter Pin 1/8 X 2" Lg. Tower Cyl. Ass'y | 21222211242430864211 |
| 31 32 33 34 | Com'l P20419 16180C 16181C | Jam Nut, 5/8-18 N.F. Wheel Nut, 5/8 N.F. 45 Degree Taper Hydraulics Tower Hydraulics Tower (With Safety Valve) | 8 2 |
| 35 36 37 38 39 40 41 42 43 | 6974 7338 Com'l 14341B Com'l Com'l Com'l Com'l | Bushing Bushing Hex Nut 5/8-18 N.F. Cover Plate Washer, Springlock 5/8" Capscrew 5/8-11 N.C. X 1" Lg. Capscrew 5/8-11 N.C. X 2" Lg. Capscrew 3/8-16 N.C. X 3/4" Lg. Washer 3/8 | 2 2 2 2 2 2 2 |

THROTTLE ASSEMBLY
MODEL 400B (225 CHRYSLER)
15270
S/N 2001 Thru 2013, 2015,
& 2017 Thru 2028



| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------------------------|-----------------|---|-----------------------|
| 1 2 | P17737 Com'l | Gas Pedal Capscrew 1/4-20 N.C. X 3/4" Lg. | 1 2 |
| 2 3 4 5 6 7 | Com'1 | Lockwasher 1/4" | 2 2 2 |
| 4 | Com'l | Nut, Full 1/4-20 N.C. | |
| 5 6 | Com'1 Com'1 | Capscrew, Hex Hd. 1/2-13 N.C. X 3 1/2" Lg. | 1 |
| 7 | Com' 1 | Nut, Full 1/2-13 N.C. Nut, Jam 1/2-13 N.C. | 1 |
| 8 | Com' 1 | Lockwasher 1/2" | 1 |
| 9 | | ECONNECTIVE | 1 |
| 10 | 16074A | Pivot Rod | 1 1 1 1 |
| 11 | 15218 | Bearing Sleeve | ī |
| 12 | 15547A | Lever | ĩ |
| 13 | Com' 1 | Zerk, Str. 1/4-28 N.F. | 1 |
| 14 | Com' 1 | Roll Pin 1/8 X 1" Lg. | 1 1 2 2 |
| 15 16 | 14544 | Sleeve | 1 |
| 17 | Com'l | Nut, Jam 5/16-24 N.F. | 2 |
| 18 | COM I | Lockwasher, Shakeproof 5/16" | 1 |
| 19 | Com' 1 | Cotter Key 1/8 X 5/8" Lg. | 1 |
| 20 | 15221 | Rod | i |
| 21 | | | • |
| 22 | P10043 | Clevis | 1 |
| 23 | P10042 | Pin | 1 |
| 24 | Com' 1 | Cotter Key 3/32 X 1" Lg. | 1 |
| 25 | 15215 | Bell Crank | 1 |
| 26 27 | P19301 | Shoulder Screw | 1 |
| 28 | 15214 Com'l | Pivot Bracket | 1 |
| 29 | 13698 | Nut, Hex 5/16-18 N.F. Support | 1 |
| 30 | Com' 1 | Bolt 3/8-16 N.C. X 1 1/2" Lg. | 1 |
| 31 | Com'1 | Lockwasher 3/8 | 2 |
| 32 | Com'1 | Nut, Hex 3/8-16 N.C. | 2 |
| 33 | 15223 | Lever | 1 2 2 2 1 |
| 34 | Com' 1 | Cotter , Key 3/32 X 3/4" Lg. | 1 |
| 35 | 15219 | Spring Clip | 1 |
| 36 | 14738 | Spacer | 1 |
| 37 | P15274 | Spring | 1 |
| 38 | 14561 | Spring | 1 |

FOR S/N 2001 Thru 2013, 2015, & 2017 Thru 2028

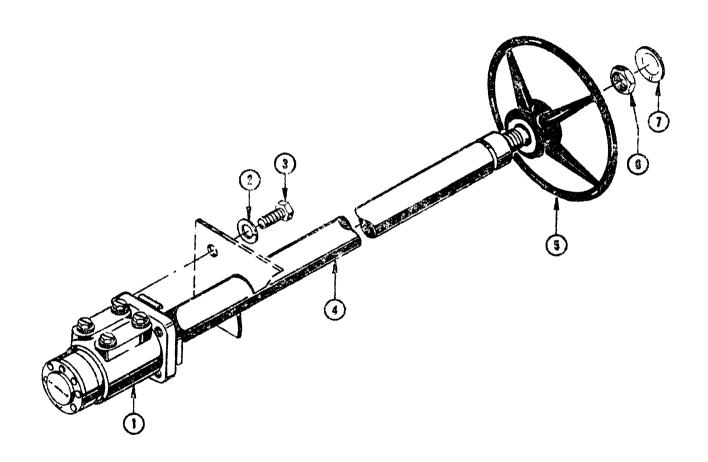


SIDE TILT VALVE ASS. Y. MODEL 400B NO. 15415A (P-13005)

| ITEM NO. | PART ASSEMBLY NO. NO. | DESCRIPTION | NO. REQ. |
|--------------------------------------|--------------------------|---------------|-------------|
| Ì | P-12285 | Plug | 1 |
| ż | P-12295 | 0-Ring | ī |
| 3 | P-12296 | Spring | 1 |
| 4 | P-12297 | Control Valve | 1 |
| 5 | P-12298 | 0-Ring | 1 |
| 2 3 4 5 6 7 8 9 | *P-12299 | Seal | 1 |
| 7 | *P-12300 | Seal | 1 |
| 8 | *P-12301 | Retainer | 1 |
| | P-12307 | Nut | 4 |
| 10 | P-12308 | Stud | 4 |
| 11 | P-12309 | Washer "C" | 2 |
| 12 | P-12310 | Sleeve | 1 |
| 13 | *P-12316 | Seal | 1 |
| 14 | P-12315 | Spring | 1 |
| 15 | *P-12314 | Quad Ring | 1 |
| ⁷ 6 | *P-12313 | 0-Ring | 1 |
| 17 | P-12312 | Retainer | 1 |
| 8 / | P-12311 | Screw | 1 |
| 19 | P-13339 | "L" Section | 1 |
| 20 | P-13317 | Dust Cap | 1 |

^{*} Included in P-12549 Seal Kit.

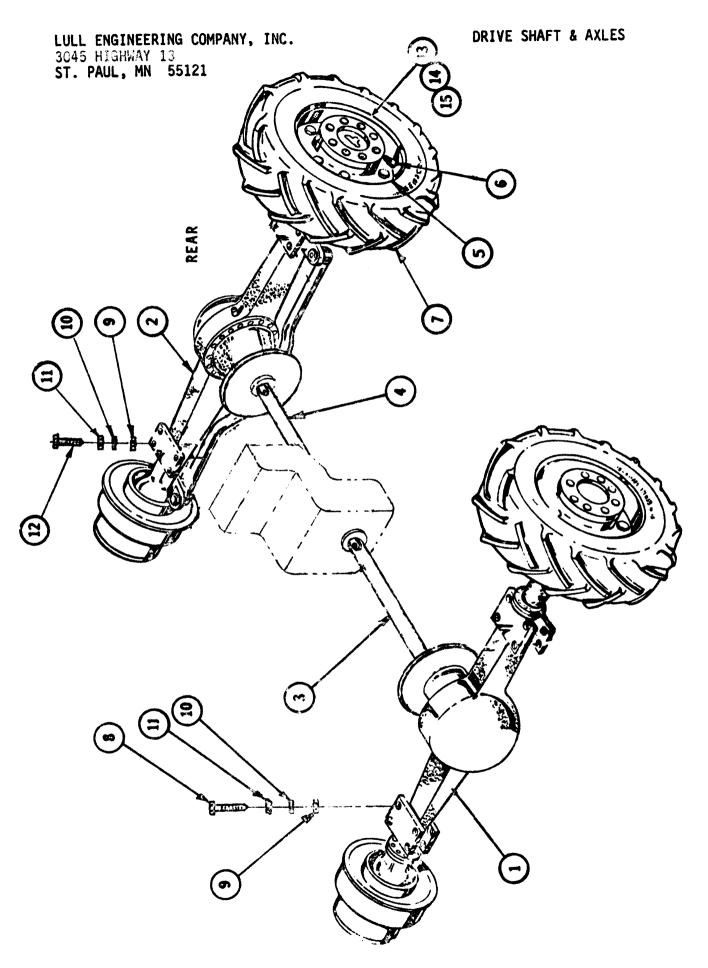
ORBITROL STEERING ASSEMBLY MODEL 400B 15437C



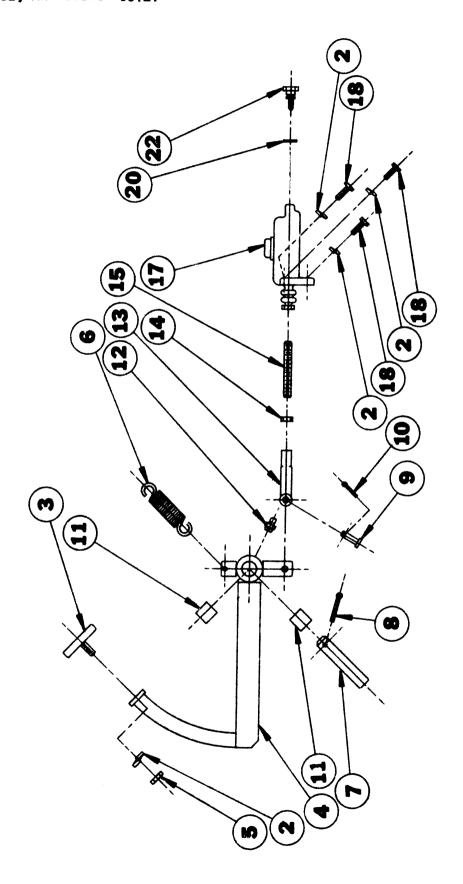
ORBITROL STEERING ASS'Y. MODEL 400B 15437C

| 177M | PART NO. | ASSEMBLY NO. | DESCRIPTION | NO. REQ. |
|----------------------------|---|-----------------|---|----------------------------|
| 1 2 3 5 6 7 | * P19293 COM'L COM'L P-13008 P-13009 P-16186 | | Orbitrol Lockwasher, 3/8 Capscrew, 3/8 x 1 1/2 N.C. Steering Column Steering Wheel Nut Cap, Wheel | 1 2 2 1 1 1 |

^{*} Use P13608 For S/N 2001 To 2003, 2006, 2009 & 2010

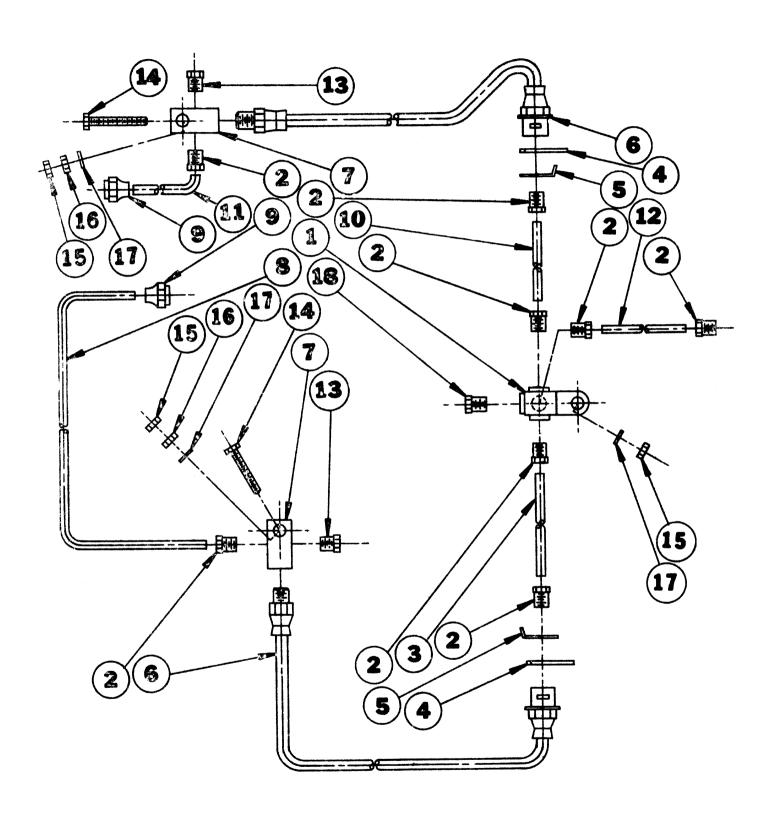


| ITEM | PART NO. | DESCRIPTION | QTY. |
|-----------------------|----------|--|--------|
| 1 | P18068 | Axle, Front (See Appendix for Breakdown) | 1 |
| 2 3 | P18069 | Axle, Rear (See Appendix for Breakdown) | , |
| 3 | P17901 | Drive Shaft, Front | 'n |
| | P18749 | Cross & Bearing - Axle Side | |
| | P17734 | Cross & Bearing - Trans. Side | _ |
| 4 | P19902 | Drive Shaft, Rear | 1 |
| | P18749 | Cross & Bearing - Axle Side | _ |
| | P17739 | Cross & Bearing - Trans. Side | _ |
| 5 | 12749C | Wheel | Δ |
| 5 6 7 8 9 | P13673 | Valve Stem | Ā |
| 7 | P13020 | Tire, 12.00 X 24 8 Ply | 4 4 |
| 8 | P00793 | Bolt, Hx., 3/4"-16 X 8" GR 8 | 8 |
| | P01586 | Nut, Jam 3/4"-16 | 16 |
| 10 | P01536 | Nut, Hx. 3/4"-16 | 16 |
| 11 | P01364 | Starwasher, 3/4 Ext. | 16 |
| 12 | P00781 | Bolt, Hx. 3/4"-16 X 3" GR 8 | 8 |
| 13 | P16439 | Lock Ring | 4 |
| 14 | P17260 | Flange | 4 |
| 15 | P16441 | 0-Ring | 4 |



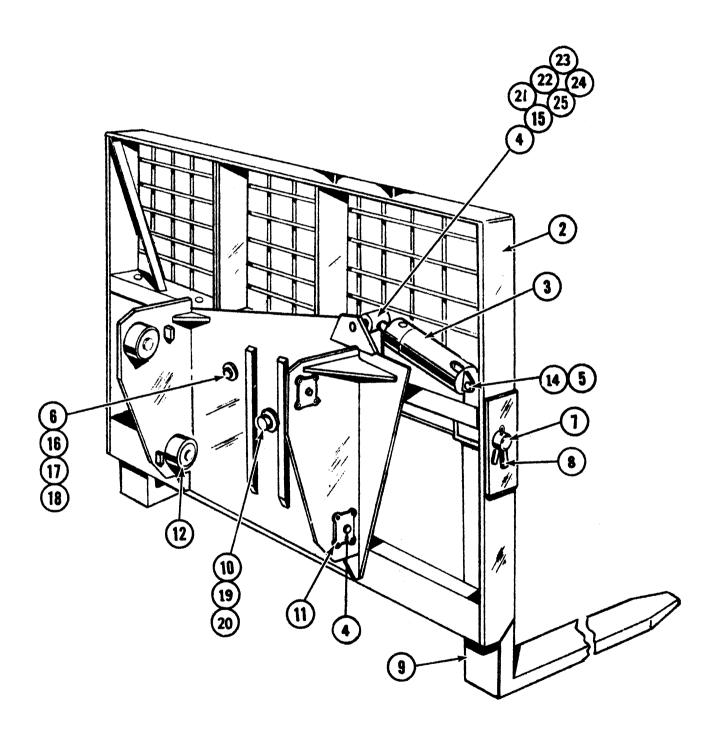
LULL ENGINEERING COMPANY, INC. BRAKE & MASTER CYLINDER ASSEMBLY 3045 Highway 13 ST. PAUL, MINNESOTA 55121

| ITEM | PART | DESCRIPTION | QTY. |
|----------------------------|--------|----------------------------------|------|
| 1 | | | |
| ż | Com'1 | Lockwasher, Spring, 3/8" | 4 |
| 3 | P17733 | Foot Pad | 1 |
| 2 3 4 5 6 7 | 15585B | Brake Pedal | i |
| 5 | Com'l | Nut, Hex, 3/8 - 24 N.F. | i |
| 6 | P10581 | Spring | i |
| 7 | 3458A | Pin, Pedal Pivot | i |
| 8 | Com'1 | Pin, Cotter, 1/8" X 1 3/8 Long | i |
| 9 | P10053 | Pin, Clevis, 7/16 | i |
| 10 | Com'1 | Pin, Cotter, 3/32 X 1" Long | 1 |
| 11 | 7122A | Bushing | 2 |
| 12 | Com'l | Zerk, 1/8" N.P.T. Str. | 1 |
| 13 | P19081 | Clevis, 7/16 | 1 |
| 14 | Com' 1 | Nut, Jam, 7/16 - 20 N.F. | 1 |
| 15 | 15676A | Rod, Brake, 7/16-20 | 1 |
| 16 | 010120 | • | |
| 17 | P18129 | Master Cylinder | 1 |
| 18 19 | Com'1 | Cap Screw, 3/8-16 N.C. X 1" Long | 3 |
| 20 21 | P12506 | Gasket | 1 |
| 22 | P20415 | Fitting | 1 |



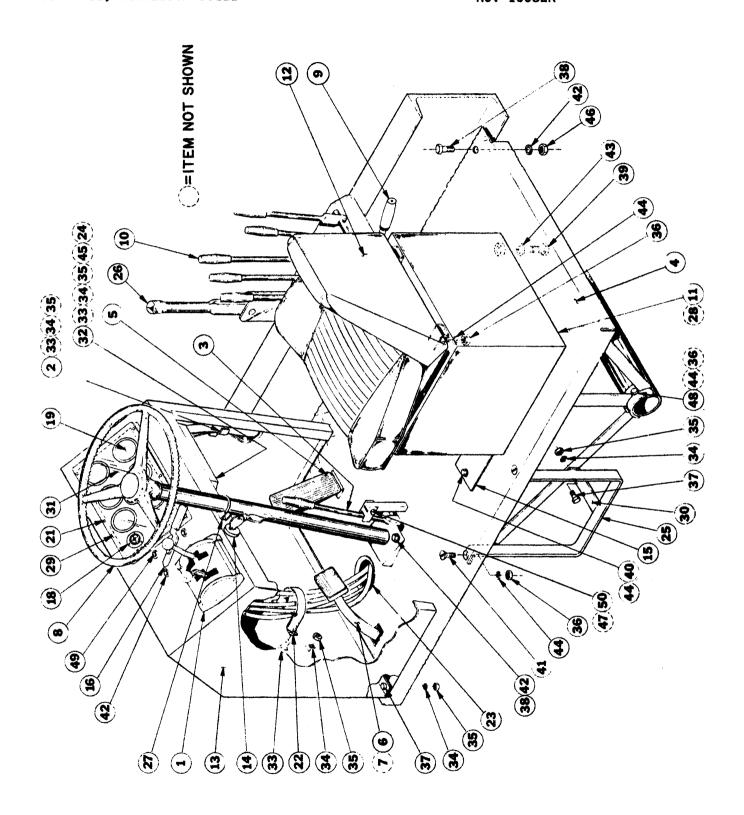
BRAKE LINE ASSEMBLY

| ITEM | PART | DASCRIPTION | QTY. |
|-------------|---------|---|--------|
| 1 | P11706 | Tee | 1 |
| 2 | P11712 | Connector Nut | 8 |
| 2 3 | Com'1 | Tubing (Front) 1/4" 0.D. X 46 1/2 Long | Ĭ |
| 4 | 11902A | Bracket | Ž |
| 4 5 6 | P11715 | Clip | 2 2 |
| 6 | P11705 | Hose, Brake Line, 17" Long | 2 |
| 7 | P11704 | Junction Block | 2 |
| 8 9 | Cosi 1 | Tubing (Front) 1/4" O.D. X 13 1/2" Long | ī |
| 9 | P15310 | Connector Nut | Ž |
| 10 | Com' 1 | Tubing (Rear), 1/4" O.D. X 45" Long | ī |
| 11 | Com'1 | Tubing (Rear) 1/4" O.D. X 16 1/2" Long | 1 |
| 12 | Com' 1 | Tubing (To Master Cylinder) 1/4" 0.D.X 35" Long | i |
| 13 | P19095 | Plug | 2 |
| 14 | Com' 7 | Capscrew, 5/16"-18 N.C. X 1 1/2" Long | 2 |
| 15 | Com' 1 | Nut, Hex, 5/16 - 18 N.C. | 3 |
| 16 | Com ' 7 | Nut, Jam, 5/16 - 18 N.C. | 2 |
| 17 | Com'1 | Washer, Shake Proof, 5/16" | 3 |
| 18 | P11726 | Pîug | ĭ |



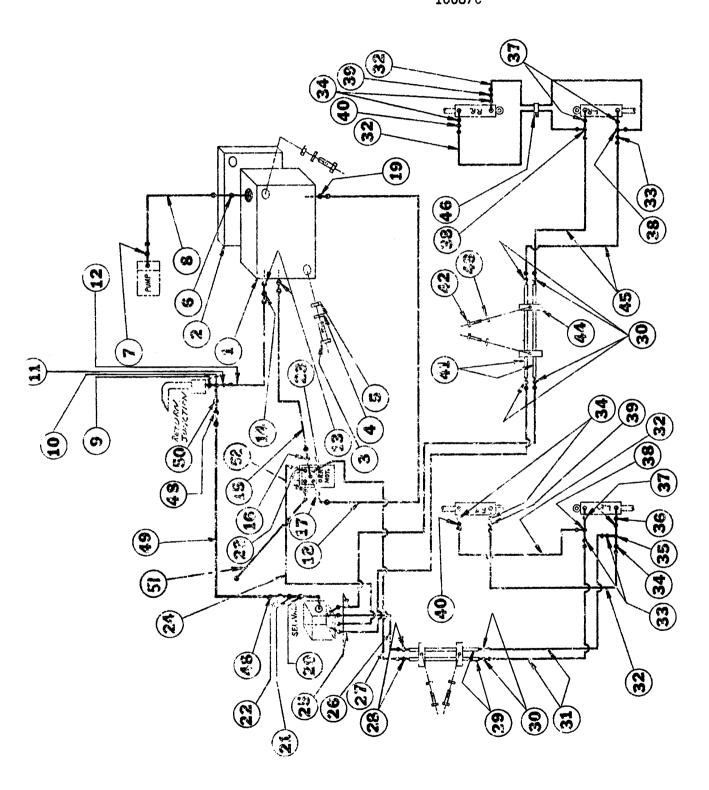
FORK CARRIAGE ASSEMBLY MODEL 400B NO. 15681A

| ITEM | PART | SEE ASS'Y | DESCRIPTION | QTY |
|---|--------|-----------|---|--|
| _ | | | | |
| 1 2 3 4 5 6 7 8 9 | | | | 1 |
| 2 | 11744 | | Carriage | 1 |
| 3 | 6320 | | Cylinder Assembly | 1 |
| 4 | Com'l | | Grease Fitting, 1/8 NPT X 90° | 8 |
| 5 | 6459 | | Pin | 1 |
| 6 | 10180 | | Washer | 2 |
| 7 | 11369 | | Shaft | 1 |
| 8 | Com'1 | | Cotter Pin, 3/8 Dia. X 2 1/2" | 2 |
| 9 | 16511 | | Fork | 1 1 8 1 2 1 2 2 1 4 |
| 10 | 6326 | | Washer | 1 |
| 11 | 15229 | | Spindle | 4 |
| 12 | 14073 | | Roller | 4 |
| 13 | | | | |
| 14 | Com'l | | Cotter Pin, 3/16 Dia. X 1 1/4" | 1 |
| 15 | 15191 | | Pin | 1 1 2 2 2 1 |
| 16 | Com' 1 | | Nut, 7/8-9 N.C. | 2 |
| 17 | Com' 1 | | Bolt, 7/8-9 N.C. X 2 1/4 Long | 2 |
| 18 | Com'l | | Washer, Shakeproof 7/8" | 2 |
| 19 | 222 | | Special Nut | 1 |
| 20 | Com' 1 | | Setscrew, 1/4 N.C. X 3/8 Cup Pt. | 1 |
| 21 | Com'1 | | Capscrew, Hex Hd., 3/8-18 N.C. X 3/4" Lg. | 1 |
| 22 | Com'l | | Washer, Plain, 3/8 | 1 |
| 23 | Com'1 | | Capscrew, Hex Hd., 5/16-18 N.C. X 2" Lg. | 1 1 1 |
| 24 | Com' 1 | | Lockwasher, 5/16 | ī |
| 25 | Com' 1 | | Nut, 5/16-18 N.C. | ĩ |



| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|---|-----------------|--|-------------|
| 1 | 14552 | Shifting Control Ass'y | 1 |
| 1 2 3 4 5 6 7 8 9 | P17593 | Clamp | i |
| 3 | 14554 | Side Tilt Control Ass'y | ī |
| 4 | 15670 | Platform | ī |
| 5 | 16178 | Trottle Ass'y (CHECK FOR S/N) | Ī |
| 6 | 15581 | Brake & Master Cylinder Ass'y | 1 |
| 7 | 15582 | Brake & Line Ass'y | 1 |
| 8 | 15437 | Orbitrol Steering Ass'y | 1 |
| | 16337 | Disconnect Ass'y | 1 |
| 10 | 14555 | Valve Control Ass'y | 1 |
| 11 | 14262D | Seat Stand & Tool Box | 1 |
| 12 | P17742 | Seat With Rails | 1 |
| 13 | 14240 | Panel, Instrument | 1 |
| 14 | P11092 | Ignition Switch | 1 |
| 15 | 6578 | Inspection Cover | 1 |
| 16 | P13714 | Valve, Steering Selector Ass'y | 1 |
| 17 | P-17826 | Choke Cable (NOT SHOWN) For 225 Crysler only | 1 |
| 18 | REF | Level (See 14613) | 1 |
| 19 | REF | Guage & Senders (See 15241 & 16367) | |
| 20 | D1040# | C D. H H I C I | 1 10 |
| 21 22 | P19424 | Screw, Botton Head Socket, 1/4"-20 N.C. X 1" | Lg. 16 |
| | 15125 | Hydraulic Hose Strap | 1 |
| 23 24 | 14697 | Hose Grommet | 1 |
| 25 25 | P19254 11680 | Speed Nut | 2 |
| 25 26 | 16365 | Step Hand Brake Ass'y | 1 |
| 27 | P17765 | Clamp | 1 |
| 28 | 14535 | Cover, Tool Box | 1 |
| 29 | P19536 | Gasket, Vandle Guard | 1 |
| 30 | 8803 | Support | 1 |
| 31 | 16538 | Shield, Vandle Guard | i |
| 32 | 14250 | Cover, Bottom Instrument Panel | 1 1 5 |
| 33 | Com'1 | Bolt, 1/4-20 N.C. X 1/2" Lg. | 5 |
| 34 | Com'1 | Lockwasher 1/4" | 11 |
| 35 | Com' 1 | Nut, 1/4-20 N.C. | ii |
| 36 | Com' T | Nut, 5/16-18 N.C. | 8 |
| 37 | Com'1 | Capscrew, Hex Hd., 1/4-20 N.C. X 1" Lg. | 8 5 |
| 38 | Com' 1 | Capscrew, Hex Hd., 3/8-16 N.C. X 1 3/4" Lg. | 6 |
| 39 | Com'1 | Capscrew, Hex Hd., 1/2-13 N.C. X 1 1/4" Lg. | 4 |
| 40 | Com' 1 | Capscrew, Hex Hd., 5/16-18 N.C. X 1/2" Lg. | 1 |
| 41 | Cont 7 | Capscrew, Flat Hd., 5/16-18 N.C. X 1 1/4" Lg | . 2 |
| 42 | Com'l | Lockwasher, 3/8" | 10 |
| 43 | Com'l | Lockwasher, 1/2" | 4 |
| 44 | Com' 1 | Lockwasher,5/16" | 9 |
| 45 | Com'l | Screw, Rd. Hd., 10-24 X 1/2" Lg. | 4 |
| 46 | Com'l | Hex Nut, 3/8-16 N.C. | 4 2 2 |
| 47 | Com'1 | Jam Nut5/16-20 N.C. | 2 |
| 48 | Com' 1 | Capscrew, Hex Hd., 5/16-18 N.C. X 1" Lg. | 2 |
| 49 | Com'1 | Capscrew, Hex Hd., 3/8-16 N.C. X 3/4" Lg. | 4 |
| 50 | Com'l | Capscrew, Hex Hd., 5/16-20 N.C. X 1 1/2" Lg. | 1 |
| | | | |

HYDRAULIC SCHEMATIC LOAD SENSING & STEERING MODEL 400B S/N 2004, 2005, 2007, 2008, 2011 & UP 16087C

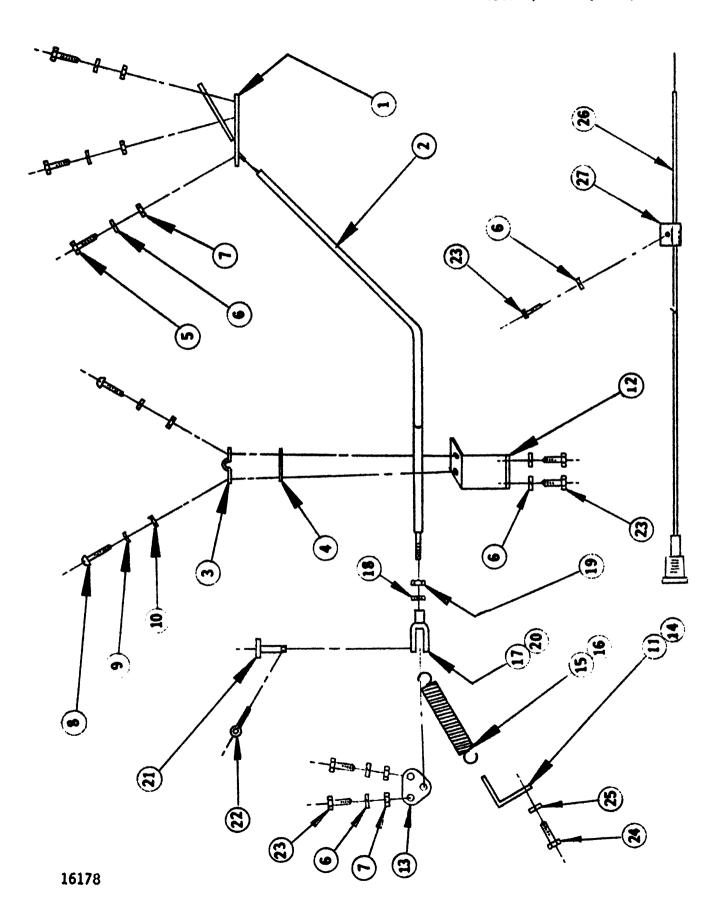


| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------|--------------------|---|--|
| 1 | P19292 | Valve | 1 |
| 2 | 16693A | Rubber Pad | |
| 2 | Com' 1 | Bolt, Hex 5/16-18 N.C. X 31/8 Lg. (Gr. 2) | ż |
| 4 | Com'l | Lockwasher 5/16" | 1 2 2 2 1 |
| 5 6 | Com'l | Nut, Hex 5/16-18 N.C. | 2 |
| 6 | P15451 | Elbow, 90° Swivel | ī |
| 7 | P12970 | Connector O-Ring | ī |
| 8 | P14983 | Hose 3/4 X 39" Ľg. | ĩ |
| 9 | P16965 | Nipple 1/4" | 1 |
| 10 | P10198 | Tee 1/4" | 1 |
| 11 | P18939 | Connector | |
| 12 | P18879 | Hose | 1 |
| 13 | P19478 | Connector | 2 |
| 14 | P18957 | Elbow 90° Swivel | 1 |
| 15 | P19490 | Hose | 1 |
| 16 | P19415 | Connector | 1 |
| 17 | P19414 | Check Valve | 1 |
| 18 | P17079 | Hose | 1 |
| 19 | P19537 | Connector | 1 |
| 20 | P16430 | Elbow 90° | 1 |
| 21 | P13979 | Adapter | 1 |
| 22 23 | P13617 | Fitting | 1 |
| 23 24 | P12510 P10452 | Fitting | 1 |
| 25 | P13695 | Hose 3/8 X 34" Lg. Hose 3/8 X 62" Lg. | 7 |
| 26 | P11139 | Hose 3/8 X 48" Lg. | 1 |
| 27 | P13442 | Hose 3/8 X 23" Lg. | 1 1 2 1 1 1 1 1 1 1 1 2 1 2 1 1 2 2 6 2 4 3 5 |
| 28 | P10225 | 90° Str. Ell. | 2 |
| 29 | N10321 | Tube | 2 |
| 30 | P10328 | Coupling | 6 |
| 31 | P19512 | Hose 3/8 X 30" Lg. | 2 |
| 32 | P19510 | Hose 1/4 X 35" Lg. | 4 |
| 33 | P10118 | 45° Str. E11. | 3 |
| 34 | P10691 | Reducer | 5 |
| 35 | P10184 | Tee | 1 |
| 36 | P10116 | 90° Str. Ell. | |
| 37 | P10898 | Nipple | 4 |
| 38 | P15120 | Tee | 3 |
| 39 | P10216 | 45° STr. Ell. | 2 |
| 40 | P10157 | 90° Str. Ell. | 2 |
| 4 i | N10315 | Tube | 2 |
| 42 | Com'l | Bolt, Hex 5/16-18 N.C. X l" Lg. | 4 |
| 43 | Com'l | Lockwasher 5/16 | 4 |
| 44 | 7731 | Clamp | 4 |
| 45 | P11525 | Hose 3/8 X 28" Lg. | 2 |
| 46 | P1 7810 | Clamp | 2 4 3 2 2 2 4 4 4 2 1 1 2 1 |
| 47 | 15437C | Steering, Orbitrol | 1 |
| 48 | P10553 | Clamp | 2 |
| 49 | P17210 | Hose | |
| 50 | P 13619 | Fitting | 1 |
| 51 52 | P 11139 P 15107 | Hose | 1 |
| JL | 1 1310/ | Adapter | 1 |

LULL ENGINEERING COMPANY, INC. 3045 HIGHWAY 13 ST. PAUL, MINNESOTA HOSE KIT & SHEAVE ASSEMBLY MODEL 400B **(15)** NO. 16118A (17 14 20

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|--|---|--|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | PART SEE ASS'Y 16114B 16117A 16115B P13767 P11646 P10156 P11647 1157B P10120 P10324 P10325 P10554 16563B 9324A Com'1 Com'1 Com'1 | Hose Pulley Bracket Shaft Pulley Weldment Hose, 3/8 SWB X 212" MTM Hose, 1/4 SWB X 17" MTSM Street Elbow, 1/4 X 90° Hose, 1/4 SWB X 8 3/4M To SM Hose Junction Bracket Reducer, 1/2 To 3/8 Male Coupling Dust Cap Pipe Plug, Square Head, 1/4" Std. Extension Plate Bushing Capscrew, 3/8 X 1 1/4" Lg. Lockwasher, 3/8 Hex Nut, 3/8-16 Capscrew, 3/8-16 X 3/4" | QTY 1 1 2 2 1 3 1 1 2 2 2 1 2 5 7 5 2 |
| 19 20 | Com' 1 Com' 1 | Cotter Pin 1/8" Dia X 1" Zerk 1/8" | 1 |

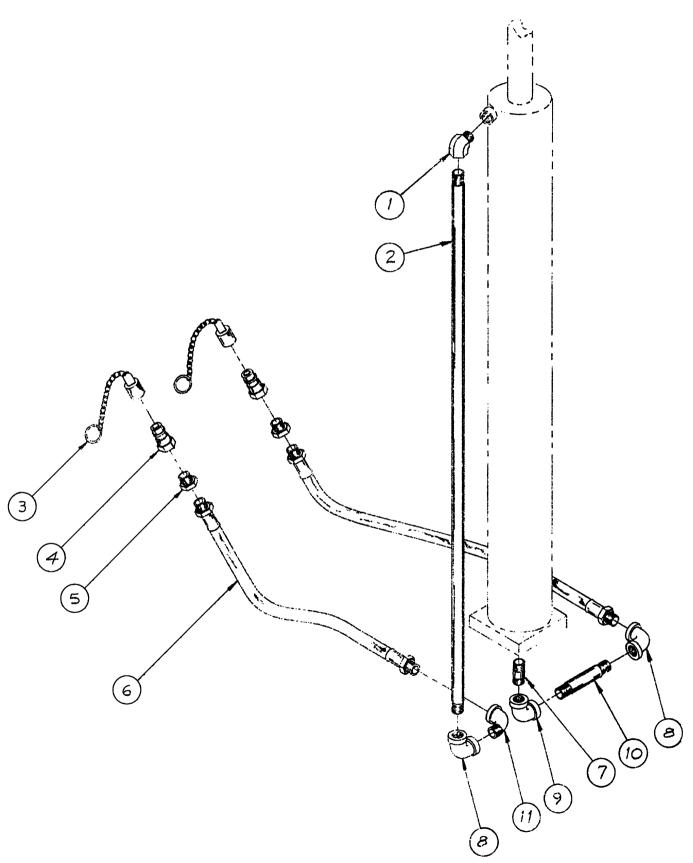
THROTTLE ASSEMBLY
MODEL 844 & 400B
NO.16178B
844-S/N 195,196,216,220 & UP
400B-S/N 2014,2016,2029 & UP



THROTTLE ASSEMBLY
MODEL 844 & 400B
NO. 16178B
844-S/N 195,196,216,220 & UP
400B-S/N 2014,2016,2029 & UP

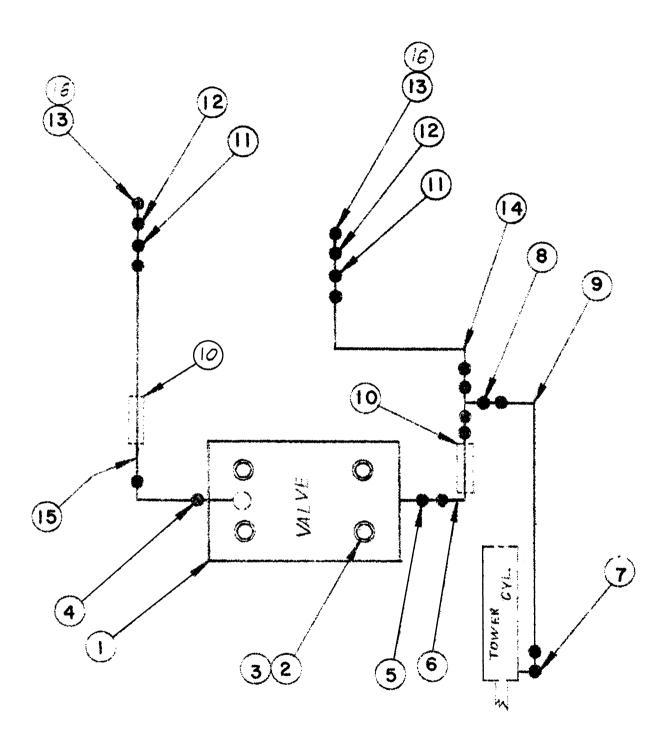
| | | SEE | | | |
|--------------------------------------|--------|----------|--|------------------|------------------------|
| ITEM | PART | ASSEMBLY | DESCRIPTION | QTY. | ENGINE |
| 1 | P19263 | | Pedal | 1 | A11 |
| 1 | P19264 | | Cable | 1 | Aii |
| 2 | P17678 | | Clamp | î | All |
| A | P19128 | | Shim | i | ATT |
| 2 3 4 5 6 7 8 9 | Com'l | | Capscrew 1/4-20 N.C. X 1 1/4" Lg. | จ้ | Ali |
| 6 | Com' 1 | | Lockwasher 1/4" (225 Chrysler, 7 Req.) | 3 4 3 2 | Ä |
| 7 | Com'1 | | Nut, Full 1/4-20 N.C. (225 Chrysler, 5 Req.) | 3 | Aii |
| 0 | Com' 1 | | Screw, Rd. Hd. Slotted 10-24 N.C. X 3/4" Lg. | 2 | Äii |
| 0 | Com' 1 | | Lockwasher #10 | 2 | Äii |
| 10 | Com'1 | | Nut, Full 10-24 N.C. | 2 2 | ATT |
| 11 | 13758 | | Anchor (318 Chrysler, 2 Req.) | 1 | Äii |
| 12 | 16174 | | Bracket | i | 318 |
| 15 | 16173 | | Bracket | i | 283 |
| | 16177 | | Bracket | î | 225 |
| 13 | 18119A | | Bell Crank | î | 225 |
| 14 | 16595 | | Anchor | 1 | 225 |
| 15 | P15274 | | Spring | i | 318 & 225 |
| 16 | P17337 | | Spring | 1 | 318 & 283 |
| 17 | P10505 | | Ball Joint | | 318 & 225 |
| | Com'l | | Lockwasher, Shakeproof 1/4" | - 1 | 318 & 225 |
| 18 19 | Com'1 | | Nut, Jam 1/4-28 N.F. | ì | 318 & 225 |
| 20 | P10508 | | Clevis | 1 | 283 |
| 21 | P10508 | | Pin | 1 | 283 |
| 21 22 | Com'l | | Cotter Pin 3/32 X 3/4" Lg. | i | 283 |
| 23 | Com'l | | Capscrew 1/4-20 N.C. X 1/2" Lg.(283, 1 Req.) | 4 | 225 & 283 |
| | Com'l | | | 1 | 225 & 283 |
| 24 | | | Capscrew 3/8-16 N.C. X 3/4 Lg. | 1 | 225 & 283 225 & 283 |
| 25 26 | Com'l | | Lockwasher 3/8 | _ | 283 |
| 26 | P13445 | | Cable, Emergency Shut Off | 1 | 283 283 |
| 27 | P12497 | | Clip, Cable | Ţ | 203 |

HYDRAULICS TOWER ASSEMBLY MODEL 400B 16180C



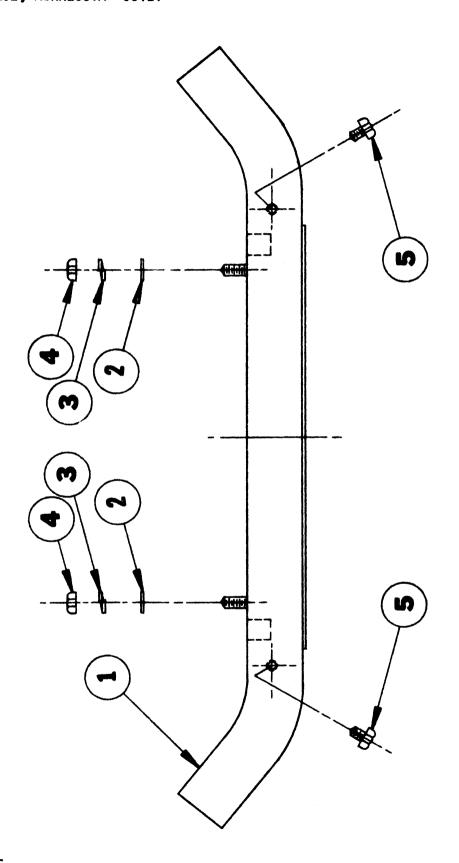
HYDRAULICS, TOWER ASSEMBLY MODEL 400B 16180C

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|------|----------------|--------------|-----|
| 1 | P17361 | 45° Elbow | 1 |
| 2 | P12982 | Pipe | 1 |
| 3 | P10325 | Dust Cap | 2 |
| 4 | P11353 | Coupling | 2 |
| 5 | P10120 | Bushing | 2 |
| 6 | P13342 | Hose | 2 |
| 7 | P10788 | Nipple | 1 |
| 8 | P15562 | Elbow 90° | 2 |
| 9 | P15566 | Elbow | 1 |
| 10 | P15497 | Nipple | 1 |
| 11 | P15563 | Street Elbow | 1 |



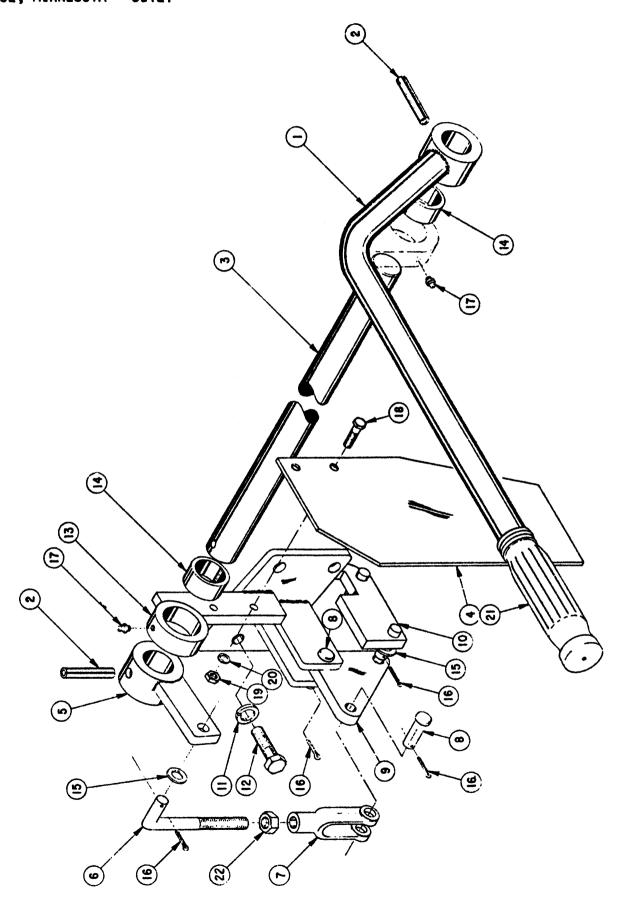
HYDRAULIC SCHEMATICS TOWER & HOSES FOR OPTIONS MODEL 400B NO. 16181A

| ITEM | PART SEE ASS'Y | DESCRIPTION | QTY |
|----------------------------|---------------------------|--|----------|
| 1 2 | P17846 Com'l | Safety Valve Bolt, Hex 5/16"-18 N.C. X 2" Lg. | 1 |
| 3 | Com'1 P19413 | Lockwasher, Shakeproof 5/16" 90° Elbow | 4 |
| 2 3 4 5 6 7 | P19415 | Connector Str. | 1 |
| 7 | P18869 P18943 | Hose 1/4 X 16" Lg. 45° Elbow | 1 |
| 8 | P18 9 95 P19421 | Tee Hose | 1 |
| 10 11 | P19063 P18938 | Hose Protection Connector, Male | 32" 2 |
| 12 13 | P10120 P11355 | Reducer Bushing Male Disconnect | 2 2 |
| 14 15 | P19738 P19739 | Hose 3/8 X 33" Lg. Hose 3/8 X 33" Lg. | 1 |
| 16 | P10326 | Dust Cap | Ž |



COUNTERWEIGHT

| ITEM | PART | DESCRIPTION | QTY |
|------|--------|------------------------------|-----|
| 1 | 15356 | Counterweight | 1 |
| 2 | Com' 1 | Nut, Hex 1 1/8"-7 N.C. | 2 |
| 3 | Com' 1 | Washer, Plain 1 1/8" | 2 |
| 4 | Com' 1 | Lockwasher 1 1/8" | 2 |
| 5 | Com' 1 | Bolt, Hex 1"-8 N.C. X 1" Lg. | 2 |



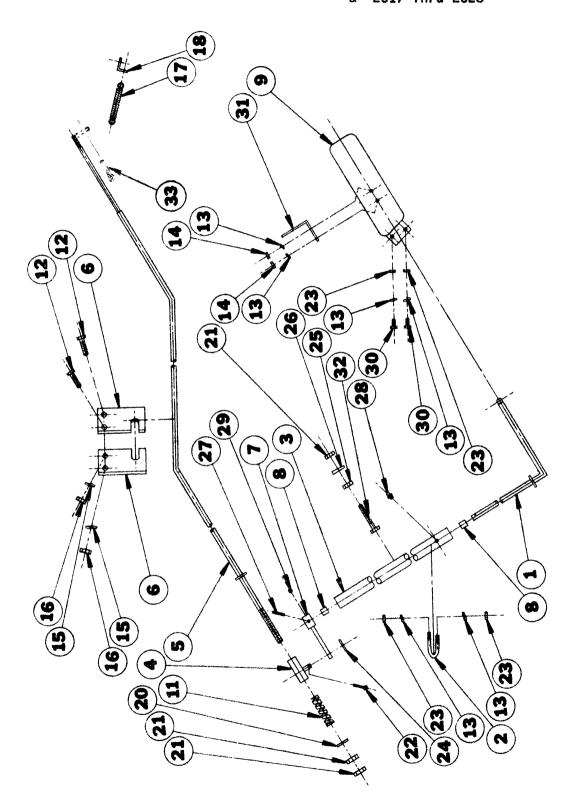
LULL ENGINEERING COMPANY, INC. 3045 HIGHWAY 13

DISCONNECT ASSEMBLY

ST. PAUL, MINNESOTA 55121

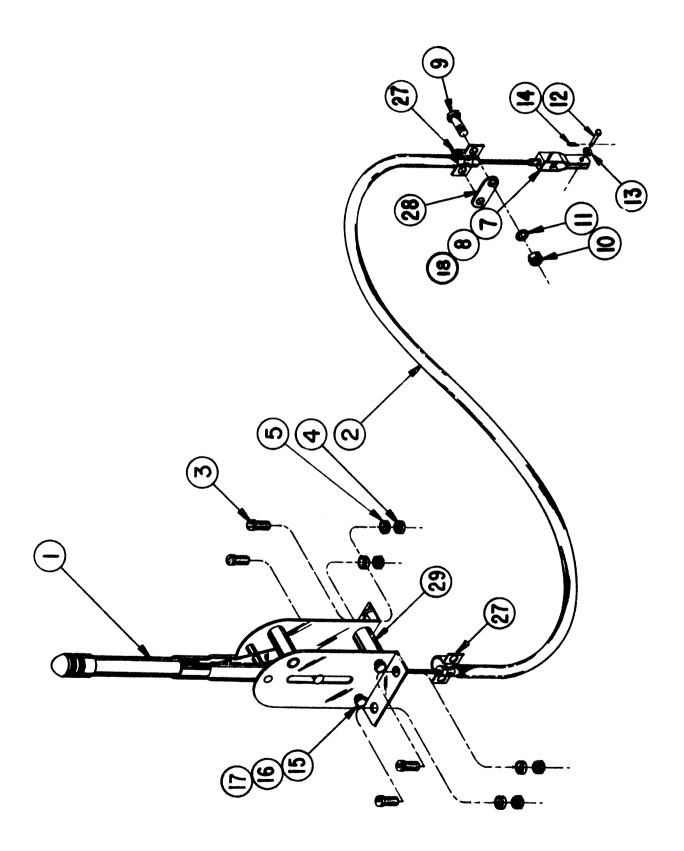
| ITEM | PART | ASSEMBLY | DECCRIPTION | OTY |
|--------------------------------------|--------|----------|-------------------------------|------|
| NO. | NO. | NO. | DESCRIPTION | QTY. |
| 1 | 14520 | | Handle Lever | 1 |
| 2 | P10383 | | Roller Pin | 2 |
| 3 | 14515 | | Shaft Disconnect | 1 |
| 4 | 14453 | | Shield | 1 |
| 5 | 14516 | | Lever | 1 |
| 6 | 14522 | | Rod | 1 |
| 7 | P10333 | | Clevis | 1 |
| 2 3 4 5 6 7 8 9 | P15331 | | Pin, Disconnect Link | 2 |
| 9 | 14524 | | Bellcrank, Disconnect | 1 |
| 10 | 14526 | | Stop Link Assembly | 1 |
| 11 | Com'l | | Lockwasher, 3/8" | 3 |
| 12 | Com'l | | Capscrew, 3/8 - 16 x 1-1/4" | 3 |
| 13 | 14454 | | Bracket Assembly | 1 |
| 14 | 7327 | | Bushing | 2 |
| 15 | Com'l | | Washer, Flat 3/8" | 5 |
| 16 | Com'l | | Cotter Key, 1/8" x 7/8" | 7 |
| 17 | Com'l | | Grease Fitting, 1/8" NPT | 2 |
| 18 | Com'l | | Capscrew, 1/4" - 20 NC x 7/8" | 2 |
| 19 | Com'l | | Nut, 1/4" - 20 NC | 2 |
| 20 | Com'l | | Lockwasher, 1/4" | 2 |
| 21 | 14692 | | Grip | 1 |
| 22 | Com'1 | | Nut, 3/8" - 24 NF | 1 |

THROTTLE ASSEMBLY MODEL 400B (283 WAUKESHA) NO. 16345A S/N 2001 Thru 2013, 2015, & 2017 Thru 2028

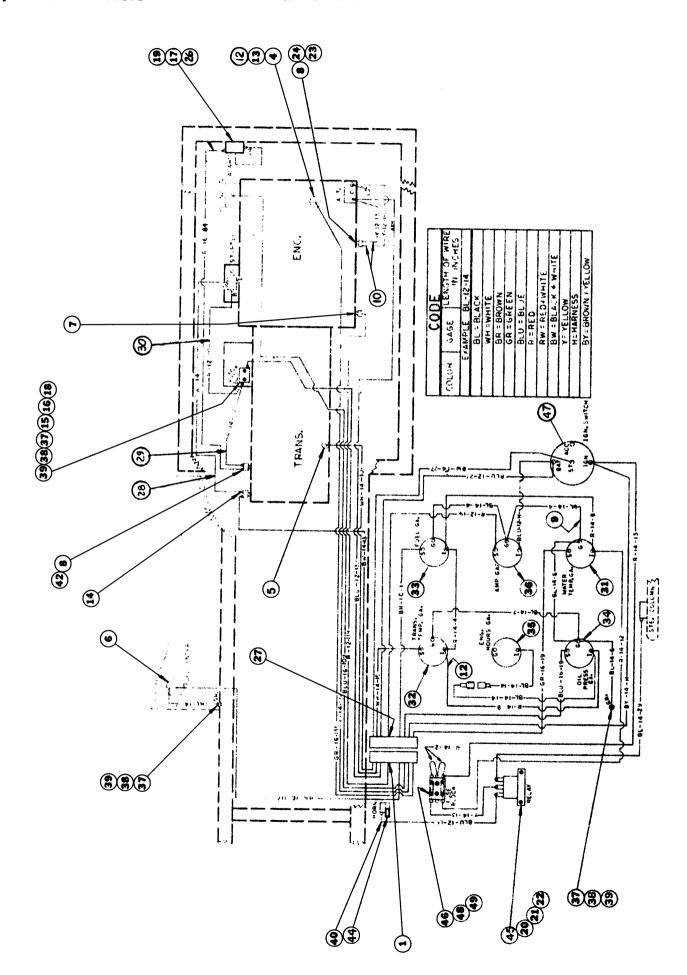


| ITEM | PART | SEE ASS'Y | DESCRIPTCON | QTY |
|--|--|-----------|---|---|
| 1 2 3 4 5 6 7 8 9 | 16103A 15542A 16110C 15544A 16285C 15546A 15547A 15924A 14531B | | Pivot Rod, Throttle U-Bolt, Bearing Sleeve Bearing Sleeve Sleeve Weldment Throttle Rod Bracket, Throttle Rod Primary Lever Bushing, Bearing Sleeve Gas Pedal | 1 1 1 1 2 1 2 |
| 10 11 12 13 14 15 16 17 18 | P19187 Com'l Com'l Com'l Com'l P17337 13758 | , | Spring, .066 O.D. X 3" Lg. Capscrew, Hx Hd. 5/16" N.C. X 1 1/4" Lg. Lockwasher 1/4" Shakeproof Jam Nut, 1/4" N.F. Lockwasher, 5/16" Shakeproof Nut, Full 5/16" N.C. Spring, Short Clip | 1 2 6 2 2 2 1 1 |
| 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 | Com'l Com'l Com'l Com'l Com'l Com'l Com'l Com'l Com'l Com'l Com'l Com'l | | Washer, Flat, Std. 3/8" Nut, Full 3/8" N.C. Cotter Pin 1/8" X 3/4" Jam Nut 1/4" N.C. Washer, Flat Std. 5/16" Nut, Jam 3/8 N.C. Washer, Bevel 3/8 Roll Pin, 1/8" Dia. X 1" Lg. Zerk, Greasing Fitting 1/8" N.P.T. Straight Set Screw 1/4-20 N.C. Capscrew 1/4"-20 N.C. X 3/4" Accelerator Stop Capscrew Hx Hd. 3/8"-16 N.C. X 2 1/4" Lg. Cotter Pin 3/32" X 3/4" Lg. | 1 3 1 4 1 1 1 1 1 1 2 1 2 |

FOR S/N 2001 Thru 2013, 2015, & 2017 Thru 2028



| ITEM | PART | DESCRIPTION | QTY. |
|--|--|---|-----------------------|
| 1 2 3 4 5 6 7 8 | P17604 P18127 Com'1 Com'1 P17594 Com'1 | Hand Brake Cable Capscrew, 5/16-18 NC X 1" Long Nut, Hex, 5/16-18 NC Washer, Spring Lock, 5/16 Clevis Nut, 3/8-24 NF | 1 1 4 6 6 |
| 9 10 11 12 13 14 15 16 17 18 | Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 Com'1 | Capscrew, 3/8-16 NC X 1 1/4" Long Nut, 3/8-16 NC Washer, Spring Lock, 3/8 Pin, Clevis, 3/8 X 1" Long Washer, Flat, 3/8" Pin, Cotter, 1/8 X 3/4" Long Washer, Spring Lock, 5/16" Bolt, 5/16-18 NC X 1 3/4 Long Nut, 5/16-18 NC Nut, Jam, 3/8-24 NF | 2 2 1 1 2 2 2 1 |
| 20 21 22 23 24 25 26 27 28 29 | P17595 P17596 P17597 | Clamp Spacer, Link Spacer | 2 2 2 |



NO. 16367 D (283 Waukesha)

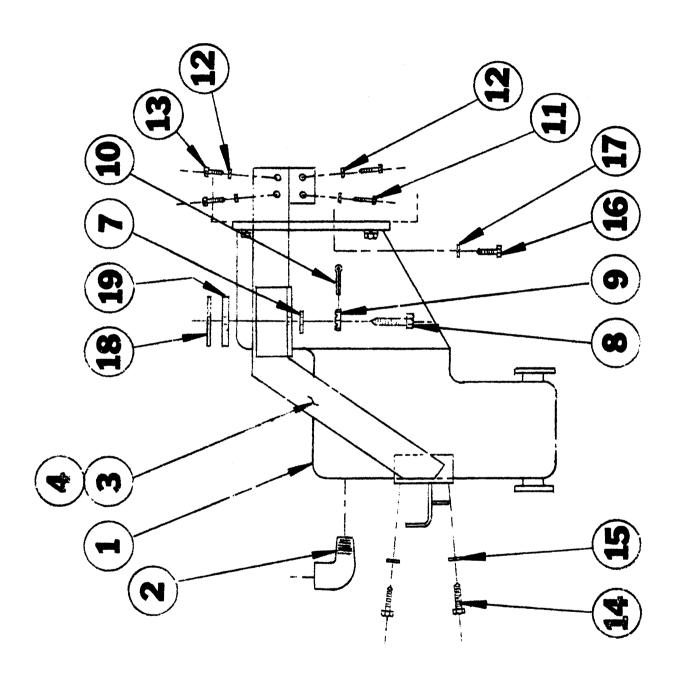
| ITEN | PART A | ASSEMBLY | DESCRIPTION | QTY. |
|----------------------------|--------------------|----------|---|----------------------------|
| 1 | *P19435 | | Harness, Lower Wire | 1 |
| 2 | *16567B | | Lower Terminal Conversion Kit | 1 |
| 2 3 4 5 6 7 | *165 67-1 8 | В | Upper Terminal Conversion Kit | 1 |
| 4 | **P18813 | | Water Temp. Sender | Ī |
| 5 | **P19472 | | Oil Temp. Sender (For S/N 220 & UP) | 1 |
| 6 | **P20346 | | Fuel Sender (Use P18729 for S/N Thru 219) | 1 |
| 7 | **P18731 | | Engine Oil Press. Sender | 1 |
| 8 | P19105 | | Press. Switch (For Back-up Alarm) | 1 2 1 |
| 9 | P19284 | | Harness, Gauges Ground | 1 |
| 10 | P19529 | | Harness, Switch to Alternator | 1 |
| 11 | | | | |
| 12 | P19838 | | Nut, 10-32 NF., Left Hand | 1 |
| 13 | P10691 | | Reducer, 3/8 to 1/4 NPT | 1 |
| 14 | P18673 | | Switch, Neutral Start | 1 2 |
| 15 | P19103 | | Fuses, SEE 30-AMP | 2 |
| 16 | P17752 | | Fuse Holder, Battery Draw with Buss Bas | 1 |
| 17 | *** P13774 | | Alarm, Back-up | 1 |
| 13 | 16273A | | Bracket, Fuse Holder | 1 |
| 19 | P19102 | | Harness, Back-up Alarm | 1 |
| 20 | Com! 1 | | Boit, Hex Head 1/4-20 N.C. X 1/2 Lg. | 2 |
| 21 | Com' 1 | | Nut, Hex 1/4-20 N.C. | 2 |
| 22 | Com'l | | Lockwasher, Spring, 1/4 | 1 1 2 2 2 1 |
| 23 | P10757 | | Nipple | 1 |
| 24 | P10223 | | 90 Degree Elbow | 1 |
| 25 | | | | |
| 26 | ***17026A | | Bracket, Back-Up Alarm | 1 |
| 27 | *P19099 | | Harness, Upper Wire | 11 |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | **P18735 | | Water, Temp. Gauge | 1 |
| 32 | **P18734 | | Trans. Oil Temp. Gauge | 1 |
| 33 | **P18728 | | Fuel, Gauge | 1 |
| 34 | **P18730 | | Engine Oil Press. Gauge | 1 |
| 3 5 | P18733 | | Hour Meter, Gauge | 1 |
| 36 | P18732 | | Ammeter, Gauge | 1 |
| 37 | Com'l | | Screw, Round Head, 10-24 N.C. X 1/2 Lg. | 4 |
| 38 | Com'1 | | Lockwasher, Spring 10 | 4 |
| 39 | Com'1 | | Nut, Hex 10-24 N.C. | 4 |
| 40 | P19101 | | Harness, Horn | 1 |
| 41 | REF | 16341 | Kit, Horn Switch | 1 |
| 42 | P15093 | | Elbow, 1/8 NPT X 45 Degree | 1 |
| 43 | _ | | • | |
| 44 | P13707 | | Horn | 1 |
| 45 | P13709 | | Relay, Horn | 1 |
| 46 | P19104 | | Fuse, SFE 20 AMP | 1 2 1 1 |
| 47 | REF | 15516 | Switch, Ignition | 1 |
| 48 | P19096 | | Fuse, 3 Holder | 1 |
| 49 | P18079 | | Adheasive | A/R |
| | | | | |

NOTE:

^{*}For repair, S/N 2001 thru 2013, a terminal conversion kit (either item #2 for lower harness or item #3 for upper harness) must be purchased together with harness. Kit is NOT required when both an upper & lower harness are purchased together.

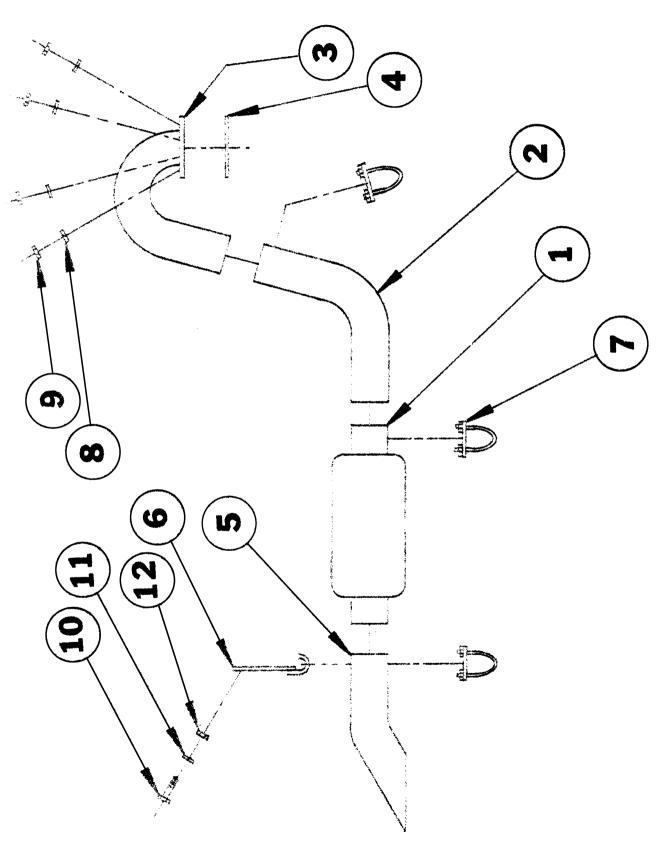
^{**}For repair, S/N 2001 thru 2035, gauges & senders must be purchased together.

***For repair, S/N 2001 thru 2123, back-up alarm & bracket must be purchased together.



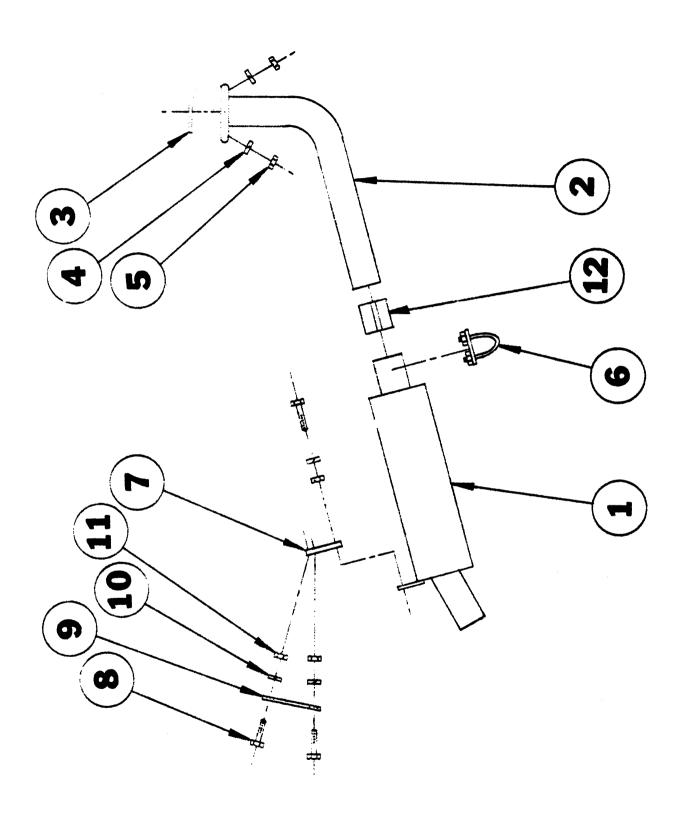
TRANSMISSION SUPPORT ASSEMBLY MODEL 400B
NO. 16600A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|--------------------------------------|--------|--------------|--|-----------------------|
| 1 | P17829 | | Transmission (Also See Appendix) | 1 |
| 2 | P10231 | | 90° Street Elbow | 1 |
| 3 | 16502 | | R.H. Support Bracket | 1 |
| 4 | 16501 | | L.H. Support Bracket | 1 |
| 5 | | | | |
| 6 | | | | |
| 1 2 3 4 5 6 7 8 | 13534 | | Rubber Mounting | 2 |
| 8 | P18023 | | Bolt, Hex 3/4-16 N.F. X 2 3/4" Lg. (Gr. 5) | 2 2 2 2 4 |
| 9 | Com'l | | Nut, Castelated 3/4-16 N.F. (Gr. 5) | 2 |
| 10 | Com' 1 | | Cotter Pin 1/8" X 1" Lg. | 2 |
| 11 | P17836 | | Bolt, Hex 1/2-13 N.C. X 1 1/2" Lg. (Gr. 8) | 4 |
| 12 | Com'1 | | Lockwasher 1/2" | 8 |
| 13 | P17667 | | Bolt, Hex 1/2-13 N.C. X 2" Lg. (Gr. 8) | 4 |
| 14 | P17250 | | Bolt, Hex 5/8"-11 N.C. X 1 1/2" Lg. (Gr. 8 |) 4 |
| 15 | Com'1 | | Lockwasher 5/8" | 'À |
| 16 | P15126 | | Bolt, Hex 3/8"-16 N.C. X 1 1/2" Lg. (Gr. 5 |) 1i |
| 17 | Com' 1 | | Lockwasher 3/8" | , <u>ii</u> |
| 18 | 11615 | | Plate (Motor Mount, Rear) | 1 |
| 19 | 11620 | | Pad (Motor Mount, Rear) | 1 |
| ~ - | 11050 | | rad (notor nount) | 7 |



EXHAUST SYSTEM ASSEMBLY MODEL 400B 283 WAUKESHA NO. 16601A

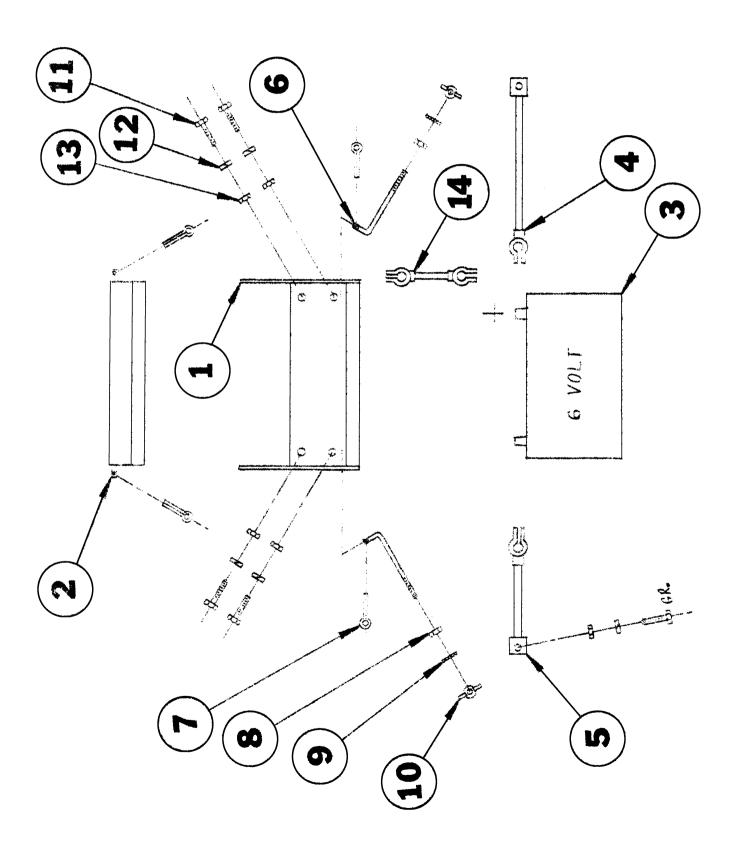
| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|------|--------|--------------|------------------------------------|-----|
| 1 | P14149 | | Muffler | 1 |
| 2 | P14150 | | Pipe | 1 |
| 3 | 16086 | | E1bow | ī |
| 4 | P16912 | | Gasket | ī |
| 5 | P14148 | | Tail Pipe | Ĩ |
| 6 | P13340 | | Hanger Bracket | 1 |
| 7 | P17169 | | Clamp | 3 |
| 8 | Com'l | | Lockwasher 3/8" | 4 |
| 9 | Com'l | | Nut, Hex 3/8-24 N.F. | 4 |
| 10 | Com'l | | Bolt, Hex Hd. 3/8-16 N.C. X 1½ Lg. | 1 |
| 11 | Com'l | | Lockwasher 3/8" | 1 |
| 12 | Com'l | | Nut, Hex 3/8-16 N.C. | 1 |



EXHAUST SYSTEM ASSEMBLY MODEL 400 B 225 CHRYSLER NO. 16602A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|------|--------|--------------|------------------------------------|-----|
| 1 | P18199 | | Muffler | 1 |
| 2 | *16619 | | Exhaust Pipe (See Note) | 1 |
| 3 | P13025 | | Gasket | 1 |
| 4 | Com'l | | Lockwasher 1/2" | 2 |
| 5 | Com' 1 | | Nut, 1/2-13 N.C. | 2 |
| 6 | P10548 | | Clamp | 1 |
| 7 | 16077 | | Flexable Link | 1 |
| 8 | Com'l | | Bolt, Hex 3/8-16 N.C. X 1 1/4" Lg. | 3 |
| 9 | 16078 | | Support Plate | 1 |
| 10 | Com'1 | | Lockwasher 3/8" | 3 |
| 11 | Com'1 | | Nut, Hex 3/8-16 N.C. | 3 |
| 12 | 16694A | | Exhaust Pipe Spacer | 1 |

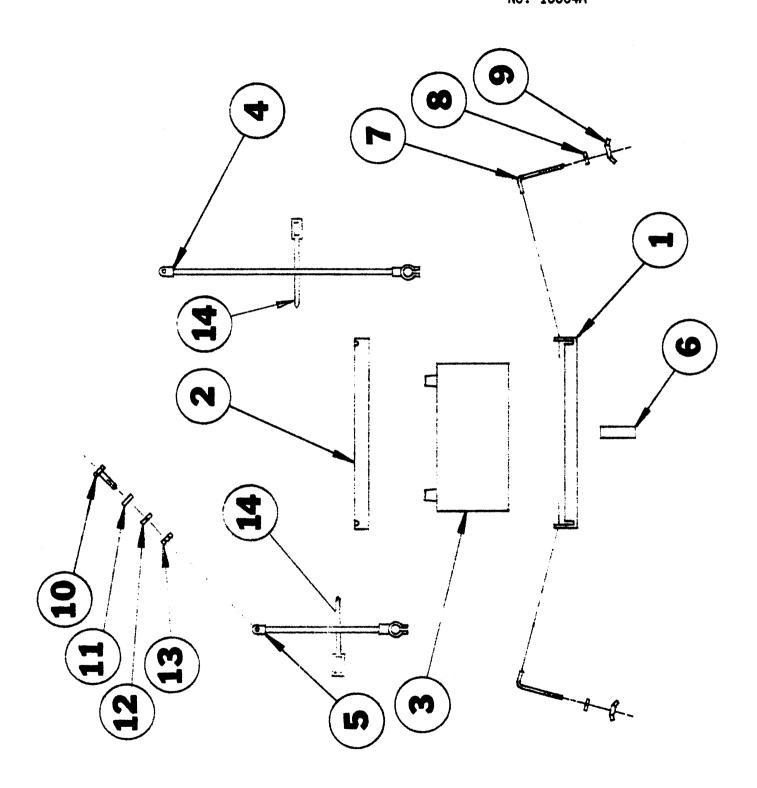
Note: *FOR S/N 2001 Thru 2015 USE 11642



3045 HIGHWAY 13 ST. PAUL, MINNESOTA 55121

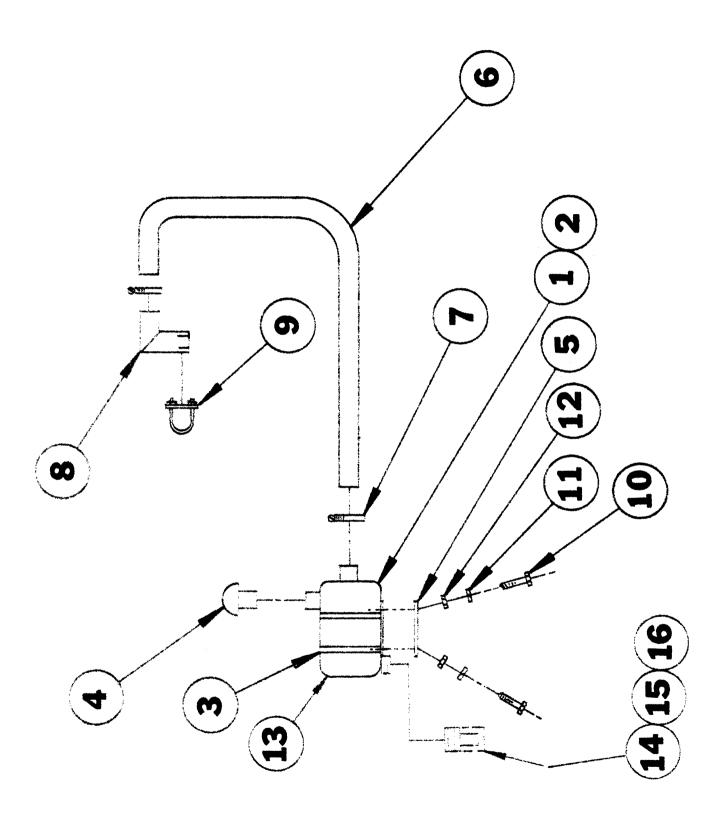
BATTERY BOX ASSEMBLY MODEL 400B 283 WAUKESHA NO. 16603A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|------|--------|--------------|--|-----|
| 1 | 16344 | | Battery Box | 1 |
| 2 | 16355 | | Cover | 1 |
| 3 | P19076 | | Battery | 2 |
| 4 | P13447 | | Cable (Pos) | ī |
| 5 | P16691 | | Cable (Neg) | ĩ |
| 6 | 16357 | | Hold Down Rod | 2 |
| 7 | Com'l | | Cotter Pin 1/8" X 3/4" Lg. | 4 |
| 8 | Com'1 | | Nut, Hex 5/16-18 N.C. | ż |
| 9 | Com'l | | Lockwasher, Shakeproof 5/16" | 2 |
| 10 | Com'l | | Wingnut 5/16-18 N.C. | 2 |
| 11 | Com'l | | Bolt, Hex 3/8-16 N.C. X 1" Lg. | 5 |
| 12 | Com'l | | Lockwasher 3/8" | 5 |
| 13 | Com'l | | Nut, Hex 3/8-16 N.C. | 5 |
| 14 | P18122 | | Cable (Connect 2-6Volt Bat. in Series) | 1 |



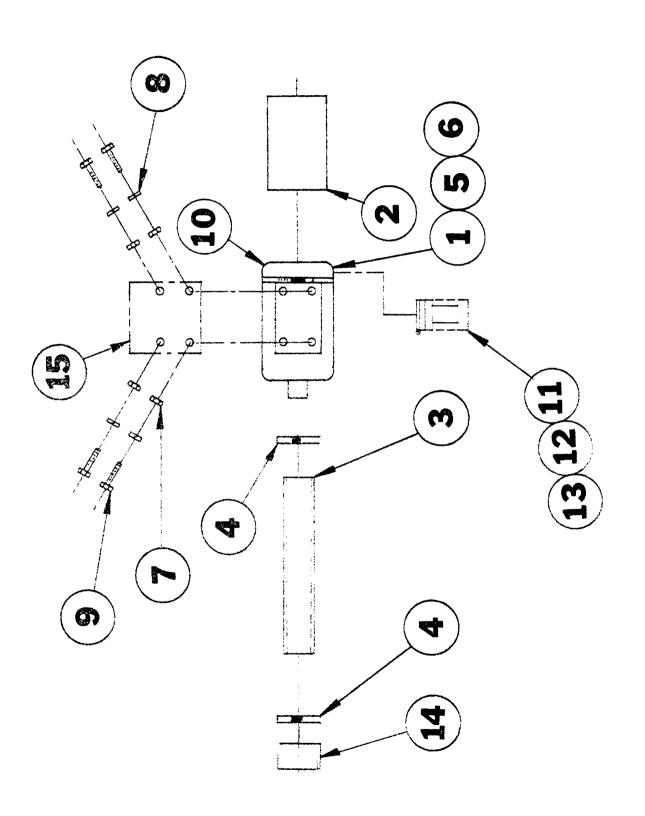
BATTERY BOX ASSEMBLY MODEL 400B 225 CHRYSLER NO. 16604A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|--------|--------|--------------|---------------------------------|-----------|
| 1 | 15263 | | Box | 1 |
| 2 | 3546 | | Cover | ī |
| 3 | P11056 | | Battery | i |
| 4 5 | P13447 | | Cable (Pos) | ī |
| 5 | P16691 | | Cable (Neg) | ī |
| 6 | 16079 | | Brace | ī |
| 7 | 15271 | | Hold Down | $\bar{2}$ |
| 8 9 | Com'l | | Lockwasher 1/4" | $\bar{2}$ |
| | Com'l | | Wingnut 1/4-20 N.C. | 2 |
| 10 | Com'l | | Bolt, Hex 5/16-18 N.C. X 1" Lg. | ī |
| 11 | Com'l | | Washer, Plain 5/16" | ī |
| 12 | Com'l | | Lockwasher, 5/16" | ĩ |
| 13 | Com'l | | Nut, Hex 5/16-18 N.C. | 1 |
| 14 | P17990 | | Ty-Rap | 2 |



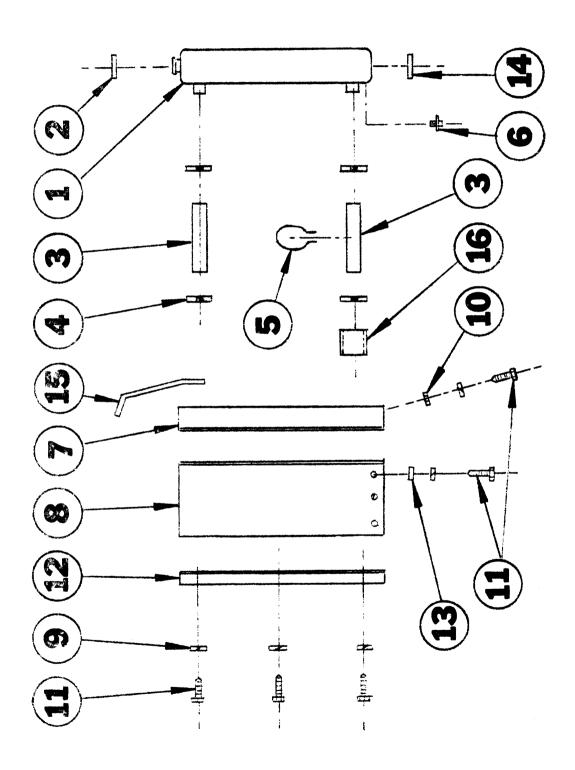
AIR CLEANER ASSEMBLY MODEL 400B 283 WAUKESHA NO. 16605A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|----------------------------|--|--------------|--|-----------------------|
| 1 2 3 4 5 | P17135 P17276 P17137 P17136 15642 | SEE ASSEMBLY | Air Cleaner Element Band Cap Bracket | 1 1 2 1 1 |
| 6 7 8 9 10 | P18037 P10553 13458 P17169 Com'l | | Hose Clamp Elbow Clamp Bolt, Hex 5/16-18 N.C. X 3/4" Lg. Lockwasher 5/16" | 1 2 1 1 4 |
| 12 13 14 15 16 | Com' 1 P19728 P20342 P20343 P20344 | | Nut, Hex 5/16-18 N.C. Vacuator Cup Ass'y Vacuator Valve (Rubber) Clamp Guard | 4 1 1 1 |



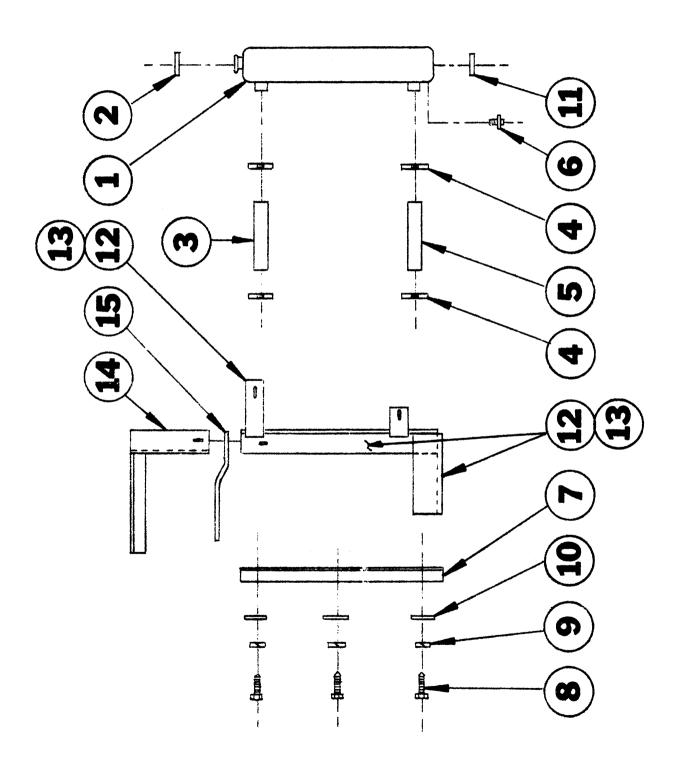
AIR CLEANER ASSEMBLY MODEL 400B 225 CHRYSLER NO. 16606A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|-------------|--------|--------------|---------------------------------|-----|
| 1 | P12163 | | Air Cleaner | 1 |
| 2 | P12179 | | Filter Element | 1 |
| 2 3 | 15274A | | Hose (28" Lg.) | 1 |
| 4 | P10270 | | Clamps | 2 |
| 4 5 6 | P12165 | | Band | 2 |
| 6 | P12164 | | Air Stack | 1 |
| 7 | Com'l | | Hex Nut 5/16-18 N.C. | 4 |
| 8 9 | Com'l | | Lockwasher 5/16" | 4 |
| 9 | Com'l | | Bolt, Hex 5/16-18 N.C. X 1" Lg. | 4 |
| 10 | P19727 | | Vacuator Cup with Sleeve | 1 |
| 11 | P20342 | | Vacuator Valve (Rubber) | 1 |
| 12 | P20343 | | Clamp, Vacuator Guard | 1 |
| 13 | P20344 | | Guard, Vacuator Valve | 1 |
| 14 | 15275 | | Spacer | 1 |
| 15 | 14893 | | Support | ī |
| 16 | P20384 | | Pre-Cleaner (Optional) | ī |



RADIATOR ASSEMBLY MODEL 400B 283 WAUKESHA NO. 16607A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|--------------------------------------|--------|--------------|----------------------------------|--------|
| 1 | P17876 | | Radiator | 1 |
| 2 | P13544 | | Radiator Cap | ī |
| 3 | P17682 | | Hose | 2 |
| 2 3 4 5 6 7 8 9 | P10270 | | Clamp | 4 |
| 5 | 15310 | | Hose Holder | 1 |
| 6 | P16675 | | Drain Cock | 1 |
| 7 | 14726 | | Radiator Support | 1 |
| 8 | 16102 | | Shroud, Extention | 1 |
| 9 | Com'l | | Lockwasher 1/4" | 2 |
| | Com'l | | Nut, Hex 1/4-20 N.C. | 2 |
| 11 | Com'l | | Bolt, Hex 1/4-20 N.C. X 1/2" Lg. | 2 |
| 12 | P17774 | | Shroud | 1 |
| 13 | Com'l | | Washer, Plain 1/4" | 6 |
| 14 | 13544 | | Shock Resistor | 6 2 |
| 15 | 16107 | | Bracket, Upper | 2 |
| 16 | P19075 | | Spacer, Lower Hose | 1 |

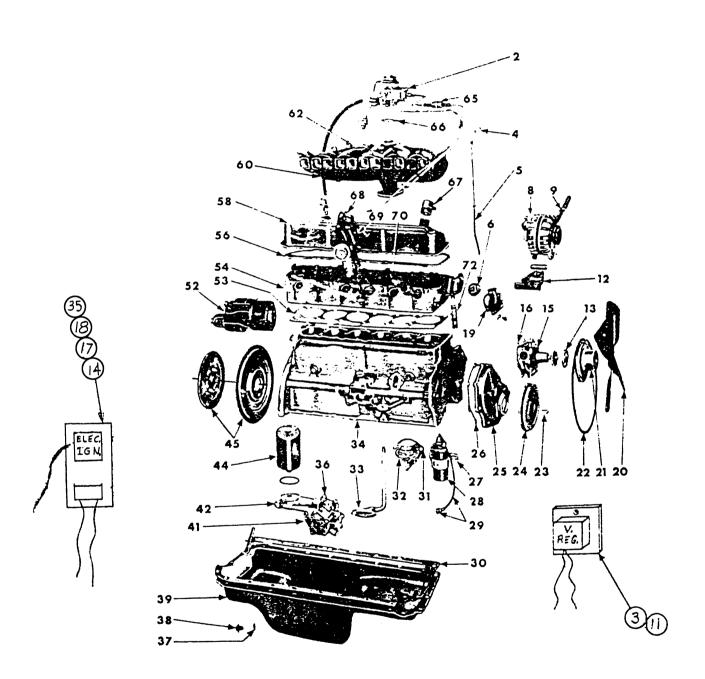


RADIATOR ASSEMBLY MODEL 400B 225 CHRYSLER NO. 16608A

| ITEM | PART | SEE ASSEMBLY | DESCRIPTION | QTY |
|-------------|--------|--------------|------------------------------------|----------|
| 1 | 14766 | | Radiator | 1 |
| 2 | P13544 | | Radiator Cap | 1 |
| 3 | P18011 | | Hose, Upper | 1 |
| 4 | P10270 | | Clamp | 4 |
| 5 | P18012 | | Hose, Lower | 1 |
| 4 5 6 | P16675 | | Drain Cock | ĩ |
| 7 | 14773 | | Shroud | ī |
| 8 | Com' 1 | | Bolt, Hex Hd. 1/4" N.C. X 1/2" Lg. | <u>-</u> |
| 8 9 | Com' 1 | | Lockwasher 1/4" | 6 |
| 10 | Com'l | | Washer, Plain 1/4" | Š. |
| 11 | 11586 | | Pad | 2 |
| 12 | 14827 | | Support, L.H | ī |
| 13 | 14828 | | Support, R.H | î |
| 14 | 15127 | | Top Support, L.H | 1 |
| 15 | 15129 | | Top Support, R.H | i |

INDEX OF PARTS

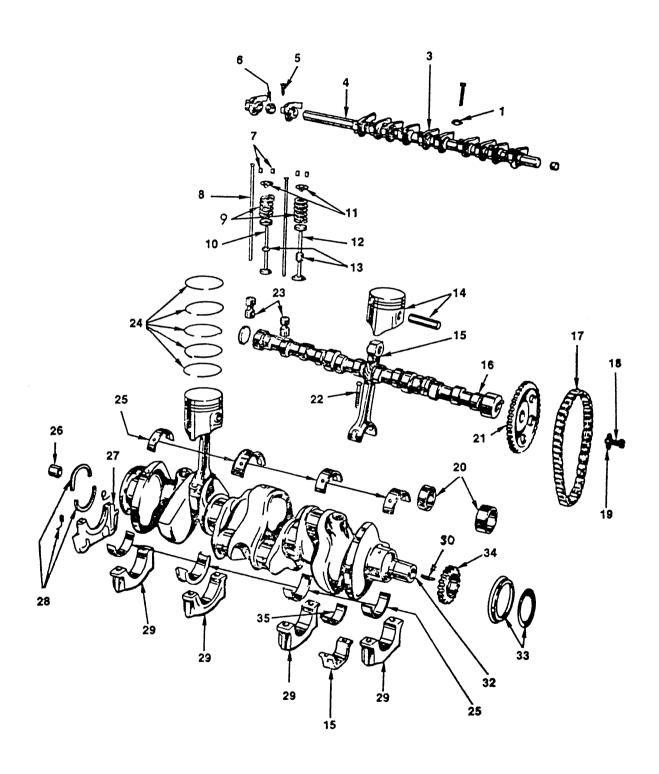
| PARTS | | PAGE |
|-----------------------|-----------|-------|
| External Engine Parts | •••• | 1,2,3 |
| Internal Engine Parts | •••• | 4,5,6 |
| Distributor | • • • • • | 7,8 |
| Alternator | •••• | 9,10 |
| Starter | | 11.12 |



| ITEM | PART | DESCRIPTION | QTY |
|---------------------------------|--------------------------|---------------------------------------|------|
| 1 | | | |
| 1 2 3 4 5 6 7 | P13549 | Carburator | 1 |
| 3 | P19204 | Voltage Regulator | 1 |
| 4 | P13550 | Dipstick, Oil | 1 |
| 5 | P16895 | Tube, Dipstick | 1 |
| 6 | P13553 | Thermostat | 1 |
| 7 | , 2000 | | |
| 8 | Ref | Alternator (See Page 9) | |
| 9 | P20157 | Alternator Adjusting Strap | 1 |
| 10 | | | |
| 11 | P19830 | Harness, Voltage Regulator | 1 |
| 12 | P17003 | Bracket | 1 |
| 13 | P20159 | Spacer | 1 |
| 14 | P19722 | Electronic Ignition | 1 |
| 15 | P17006 | Water Pump | 1 |
| 26 | P20158 | Gasket, Water Pump | 1 |
| 17 | P19829 | Harness, Electronic Ignition | 1 |
| 18 | P19750 | Resistor | 1 |
| 19 | P20160 | Gasket, Water Outlet | 1 |
| 30 | P13045 | Fan | 1 |
| • • • | P13051 | Pulley | 1 |
| 22 | P13041 | Belt | |
| 23 | P20161 | Key | 1 |
| 24 | P15268 | Damper | 1 |
| 25 | P17019 | Timing Cover | 1 |
| 26 | P17020 | Gasket, Timing Cover | 1 |
| 27 | P20162 | Bracket, Ignition | 1 |
| 28 | P12683 | Coil | 1 |
| 29 | P20163 | Cable | 1 |
| 30 | P20164 | Gasket, Oil Pan | 1 |
| 31 | P20165 | Gasket, Fuel Pump | 1 |
| | P1 3 0 4 3 | Fuel Pump | 1 |
| | P20166 | Strainer, Oil Pump (Pipe Included) | 1 |
| 34 | P2 01 67 | Block (Piston & Rings Included) | 1 |
| 35 | P19749 | Harness, Electronic Ignition | 1 |
| 36 | P20168 | Gasket, Oil Pump | 1 |
| 37 | P20169 | Gasket, Oil Plug | 1 |
| 38 | P20170 | Oîl Plug | 1 |
| 39 | P20171 | Oil Pan | 1 |
| 40 | | | |
| 41 | P17017 | Oil Pump | 1 |
| 42 | P2 0 172 | Cap. 011 Pump | 1 |
| 43 | P19720 | Flywheel Housing (Not Shown) | 1 |
| 44 | P12089 | Filter, Oil | 1 |
| 45 | P16893 | Flywheel & Ring Gear (For Funk Trans. | .) 1 |
| 45 | P21764 | Flywheel & Ring Gear (For Clark Trans | ;) 1 |
| | | • | |

LULL ENGINEERING COMPANY, INC. EXTERNAL ENGINE PARTS 3045 HIGHWAY 13 225 CHRYSLER ST. PAUL, MINNESOTA 55121

| ITEM | PART | DESCRIPTION | QTY |
|----------|--------------|--------------------------|-----|
| 51 | | | |
| 52 | P17856 | Starter (See Page 11) | 1 |
| 53 | P20184 | Gasket, Cylinder Heads | ī |
| 54 | P20185 | Head, Cylinder | 1 |
| 56 | P16879 | Gasket, Valve Cover | 1 |
| 57 | B 4 11 4 4 4 | | |
| 58 | P20186 | Valve Cover | 1 |
| 59 | 017000 | W 15.11 F.L. | |
| 60 61 | P17023 | Manifold, Exhaust | 1 |
| 62 | P17022 | Manifold, Intake | 1 |
| 63 | 111022 | Mantiold, littake | 1 |
| 64 | | | |
| 65 | P15267 | Filter, Fuel | 7 |
| 66 | P17932 | Gasket, Carburator | 1 |
| 67 | P17126 | Air Cleaner | ī |
| 68 | P13561 | Spark Plug Cables | ī |
| 69 | Ref | Distibutor, (See Page 7) | 1 |
| 70 | P20187 | Spark Plug | 6 |
| 71 | | · • | |
| 72 | P20188 | Hose | 1 |
| 73 | | | |

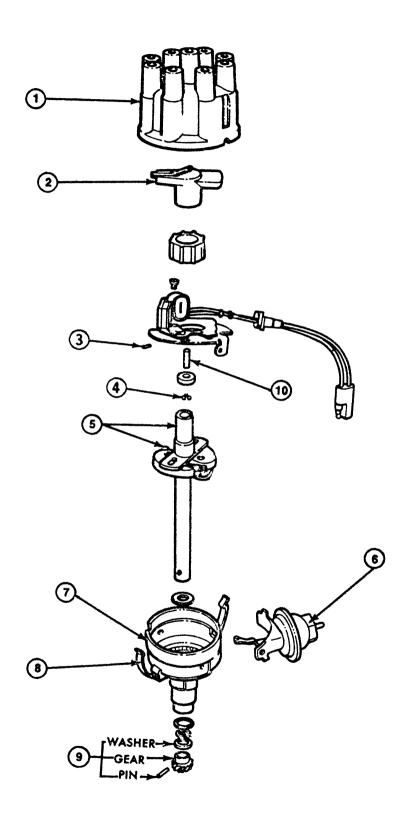


| ITEM | PART | DESCRIPTION | QTY |
|----------------------------|------------------|--|--|
| 1 | P20195 P20196 | Retainer (End & Intermediate) Retainer (Center) | 6 1 |
| 2 | F20190 | hetather (senser) | - |
| 2 3 4 5 6 7 | P20197 | Rocker Valve | 12 |
| 4 | P20198 | Shaft, Valve Rocker | 1 |
| 5 | P20199 | Screw | 12 |
| 6 | P20200 | Spacer | 6 |
| 7 | P19666 | Lock, Valve Spring Ret. (Intake) | 12 |
| • | P20201 | Lock, Valve Spring Ret. (Exhaust) | 12 |
| 8 | P20202 | Rod, Valve Push | 12 12 6 6 6 6 |
| 9 | P19669 | Spring | 12 |
| 10 | P20203 | Valve, Intake (Std.) | 6 |
| | P20204 | Valve, Intake (.005 0/\$) | 6 |
| | P20205 | Valve, Intake (.015 O/S) | 6 |
| | P20206 | Valve, Intake (.030 O/S) | 6 |
| 11 | P20207 | Retainer (Intake) | 12 |
| | P19667 | Retainer (Exhaust) | 12 |
| 12 | P20208 | Valve, Exhaust (Std.) | 6 |
| | P20209 | Valve, Exhaust (.005 O/S) | 6 |
| | P20210 | Valve, Exhaust (.015 0/S) | 6 |
| | P20211 | Valve, Exhaust (.030 O/S) | 0 |
| 13 | P19665 | Shield (Intake) | 6 |
| | P20212 | Shield (Exhaust) | 6 |
| 14 | P20213 | Piston W/Pin (Std.) | . 6 |
| | P20214 | Piston W/Pin (.005 0/S) | 6 |
| | P20215 | Piston W/Pin (.020 0/S) | 6 |
| | P20216 | Piston W/Pin (.040 O/S) Piston W/Pin (.060 O/S) | 6 |
| 1.5 | P20217 | Rod, Connecting | 12 6 6 6 6 6 6 6 6 6 6 6 6 1 1 1 1 |
| 15 | P20218 P20219 | Camshaft | -1 |
| 16 17 | P20219 P20220 | Chain, Timing | ī |
| 18 | P20221 | Screw | ī |
| 19 | P20222 | Washer | ī |
| 20 | P20223 | Bearing (No. 1 - Std.) | ī |
| 20 | P20224 | Bearing (No. 1010 0/S) | 1 |
| | P20225 | Bearing (No. 2 - Std.) | 1 |
| | P20226 | Bearing (No. 2010 0/S) | 1 |
| | P20227 | Bearing (No. 3 - Std.) | 1 |
| | P20228 | Bearing (No. 3010 0/S) | 1 1 1 1 12 |
| | P20229 | Bearing (No. 4 - Std.) | 1 |
| | P20230 | Bearing (No. 4010 0/S) | 1 |
| 21 | P20231 | Sprocket, Camshaft | 1 |
| 22 | P20232 | Bolt | |
| 23 | P20333 | Tappet, Valve (Std.) | 12 |
| | P20234 | Tappet, Valve (.001 O/S) | 12 |
| | P20235 | Tappet, Valve (.008 O/S) | 12 |
| | P20236 | Tappet, Valve (.030 0/S) | 12 |
| 24 | P20237 | Ring Set (Std. to .009 0/S) | 1 |
| | P20238 | Ring Set (.020 to .029 0/S) | 1 |
| | P20239 | Ring Set (.040 to .049 O/S) | 1 |
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INTERNAL ENGINE PARTS 225 CHRYSLER

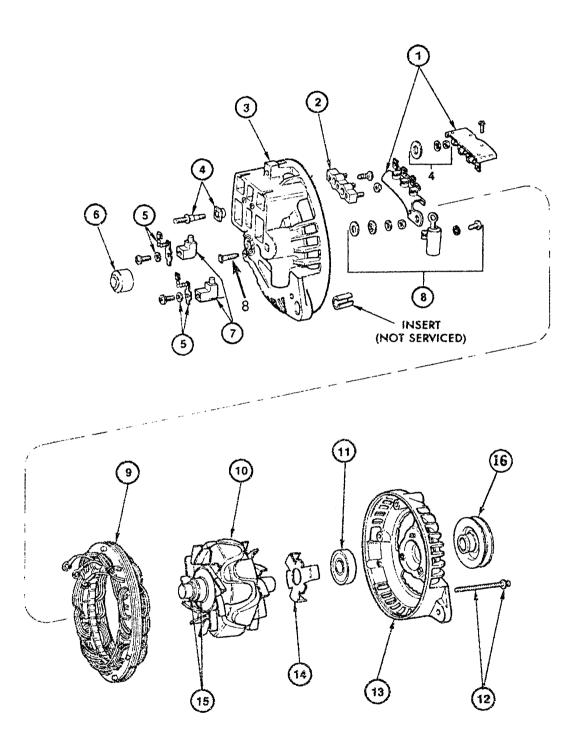
| ITEM | PART | DESCRIPTION | QTY |
|----------------------|---|---|--|
| 26 27 28 29 | P20240 P20241 P20242 P20243 P20244 P20245 P20246 P20247 P20248 P20250 P20251 P20252 P20253 P20252 P20255 P20255 P20255 P20256 P20257 P19640 P20258 P20259 P20260 P20261 P20262 P19635 | Bearing Pkg. (No. 1 - Std.) Bearing Pkg. (No. 1001 U/S) Bearing Pkg. (No. 1001 U/S) Bearing Pkg. (No. 1003 U/S) Bearing Pkg. (No. 1010 U/S) Bearing Pkg. (No. 1012 U/S) Bearing Pkg. (No. 2 & 4 - Std.) Bearing Pkg. (No. 2 & 4001 U/S) Bearing Pkg. (No. 2 & 4002 U/S) Bearing Pkg. (No. 2 & 4003 U/S) Bearing Pkg. (No. 2 & 4010 U/S) Bearing Pkg. (No. 2 & 4012 U/S) Bearing Pkg. (No. 3 - Std.) Bearing Pkg. (No. 3 - Std.) Bearing Pkg. (No. 3001 U/S) Bearing Pkg. (No. 3002 U/S) Bearing Pkg. (No. 3002 U/S) Bearing Pkg. (No. 3002 U/S) Bearing Pkg. (No. 3010 U/S) Bearing Pkg. (No. 3012 U/S) | 111111111111111111111111111111111111111 |
| 32 33 34 35 | P20263 P20264 P20265 P20266 P20267 P20268 P20269 P20270 P20271 | Crankshaft Seal Sprocket Bearing, Conn. Rod (Std.) Bearing, Conn. Rod (.001 U/S) Bearing, Conn. Rod (.002 U/S) Bearing, Conn. Rod (.003 U/S) Bearing, Conn. Rod (.010 U/S) Bearing, Conn. Rod (.012 U/S) | 1 1 12 12 12 12 12 12 12 |



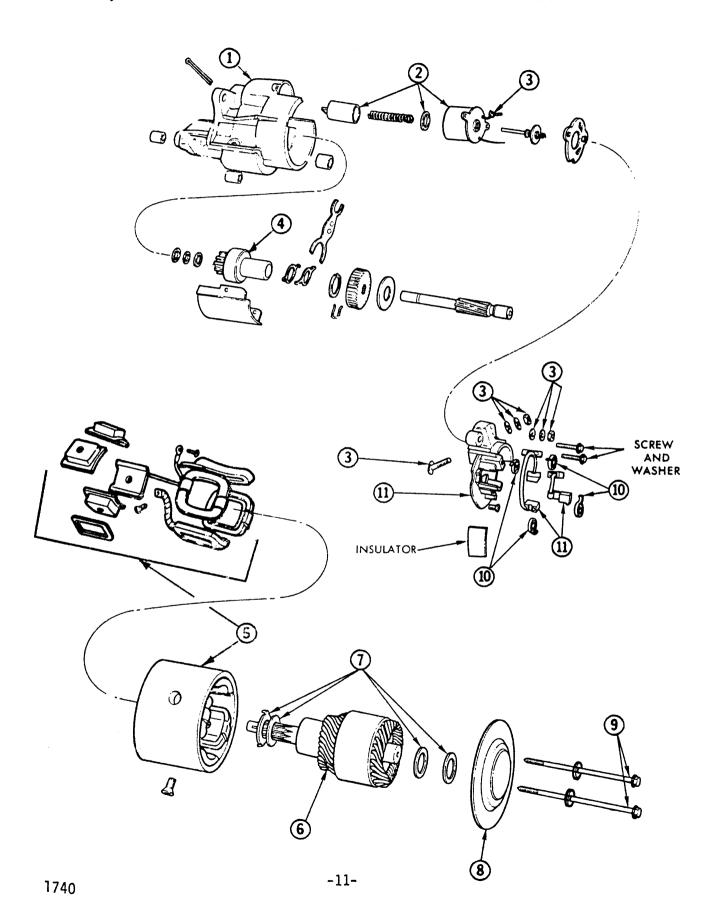
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DISTRIBUTOR 225 CHRYSLER P13028

| ITEM | PART | DESCRIPTION | QTY |
|------|--------|------------------------|-----|
| 1 | P13033 | Cap | 1 |
| 2 | P17297 | Rotor | ī |
| 3 | P19541 | Pin | 1 |
| 4 | P19539 | Snap Ring | 1 |
| 5 | P20278 | Governor Ass'y | 1 |
| 6 | P20279 | Vacuum Control | 1 |
| 7 | P20281 | Housing W/Bearings | 1 |
| 8 | P19546 | Spring, Cap Attachment | 2 |
| 9 | P20282 | Gear & Pin Pkg. | 1 |



| ITEM | PART | DESCRIPTION | QTY |
|------------------|------------------|---|--------|
| 1 | P19551 | Heat Sink and Battery Pkg. Positive | 1 |
| 2 | P19552 P19553 | Heat sink and Battery Pkg. Negative Insulator | 1 |
| 3 | P19554 | Shield, Rectifier End | 1 |
| 2 3 4 5 | P19555 P19556 | Terminal, Battery Positive Heat Sink Brush, Washer And Terminal Pkg. | 1 |
| 6 | P19557 | Bearing, Rectifier End Shield | 1 |
| 7 | P19558 P19559 | Holder, Brush Axial Holder, Brush Radial | 1 1 |
| 8 | P19560 | Capacitor and Insulator Pkg. | ī |
| 9 10 | P19561 P19562 | Stator Rotor | 1 |
| 11 | P19563 | Bearing, Drive End Shield | ī |
| 12 13 | P19564 P19565 | Screw, Frame Shield, Drive End | 3 |
| 14 | P19566 | Plate, Drive End Bearing Retainer | 1 |
| 15 16 | P19567 P20283 | Slip Ring And Retainer Pkg. Pulley | 1 |



STARTER 225 CHRYSLER P17856

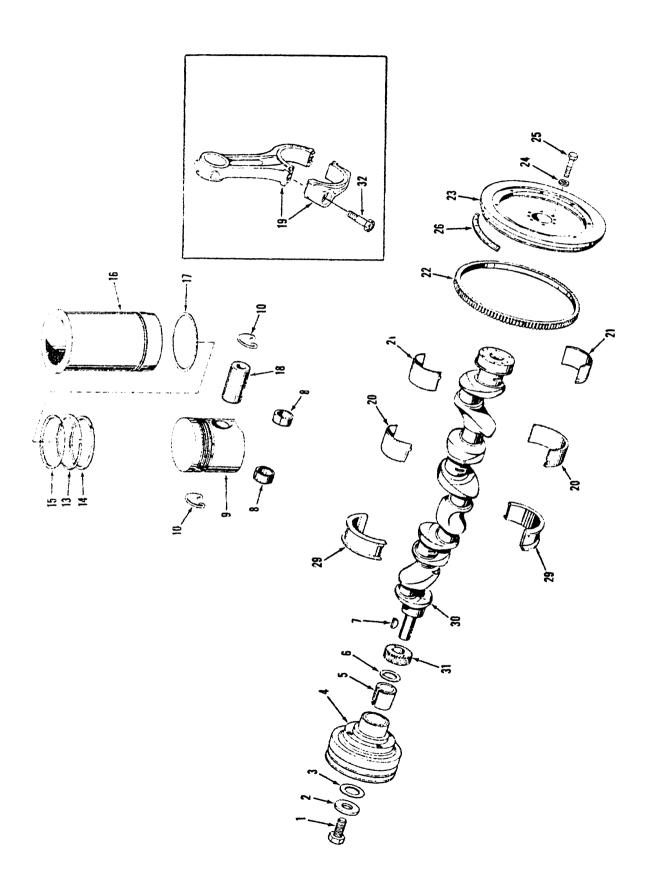
| ITEM | PART | DESCRIPTION | QTY |
|--------|--------|--------------------|-----|
| 1 | P20173 | Housing | 7 |
| 2 | P20174 | Solonoid Pkg. | 1 |
| 2 3 | P20175 | Stud & Seal Pkg. | ī |
| 4 | P20176 | Clutch | 1 |
| 5 | P20177 | Coil Pkg. Field | 1 |
| 6 | P20178 | Armature | 1 |
| 7 | P20179 | Thrust Washer Pkg. | 1 |
| 8 | P20180 | Head | 1 |
| 9 | P20181 | Bolt | 2 |
| 10 | P20182 | Spring Pkg. Brush | 1 |
| 11 | P20183 | Brush Pkg. | 1 |

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WAUKESHA VRD 283

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| | | D. . | |
| Arms Rocker | 7 | Pistons | 1 |
| Bearings | 1 | Pulley Camshaft | 1 |
| Breather | 7 | Pump, Water | 19 |
| Camsnaft | 3 | Starter | 4 |
| Connecting Rods | 1 | Starter Switch | 4 |
| Gear Cover | 15 | | |
| Cover, Rocker Arm | 7 | | |
| Crankcase (Left Side) | 19 | | |
| Crankcase (Right Side) | 9 | | |
| Cranksnaft | 4 | | |
| رَيُّ linder Heau | 5 | | |
| Exnaust Manifold | 17 | | |
| Fan | 19 | | |
| Fuel Filter | 21 | | |
| Lube Filter | 14 | | |
| Flywneel Housing | 4 | | |
| Fuel 2ump | 22 | | |
| Thermostat | 19 | | |
| Injection Pump | 23 | | |
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| 011 Pump | 11 | | |
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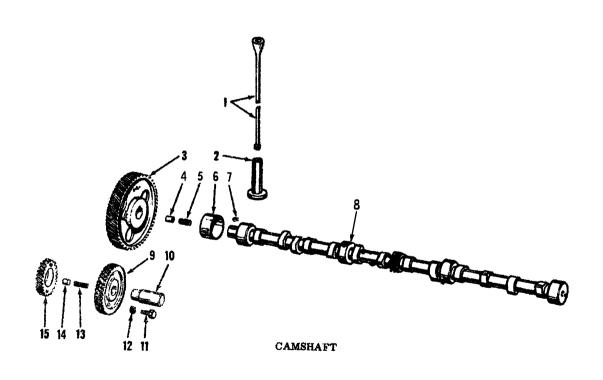
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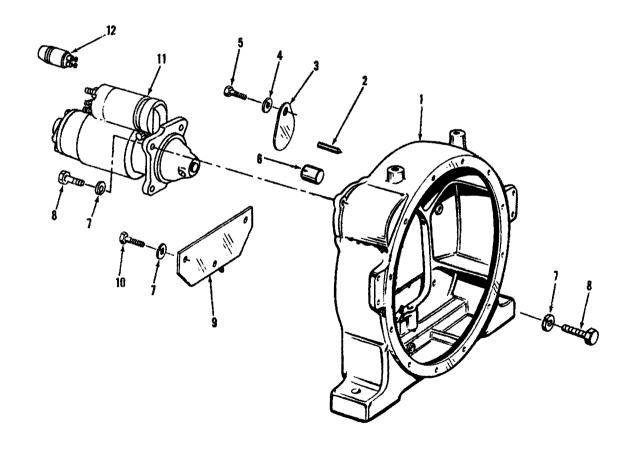
WAUKESHA VRD 283

REF. NO. PART NO. DESCRIPTION QTY. REQ. Screw $(3/4" \times 1-3/4" \text{ NF Hex Hd})$ 1 Comm 1 2 P18005 Washer Flat 1 3 Gasket P18006 1 4 P17820 Pulley Crarkshaft Taper, Crankshaft Pulley 5 1 P17821 6 P18200 Gasket 1 7 P18201 Key, Woodruff 1 8 P18202 Bushing, Piston Pin 12 9 P18203 Piston 6 10 P18204 12 Retainer. Piston Ring 11 12 13 P18205 Ring, Piston, Compression 6 14 P18206 Ring, Piston Oil 6 15 6 P18207 Ring, Piston Top Compression 16 P18208 Sleeve, Cylinder 6 17 P18209 Ring, Backing, Cylinder Sleeve 12 18 6 P18210 Pin Piston Rod, Connecting (Includes 8,20,32) Rod, Connecting (Includes 8, 32) 19 P18211 6 19 P18212 б 20 P18213 12 Bearing, Connecting Rod 21 12 P18214 Main Bearing 22 P18215 Ring Gear, Flywheel 1 23 P18216 Flywheel Assy (Includes #22) 1 24 P18217 Washer Flat 6 25 6 P18218 Bolt, Flywheel 26 P18219 Strip, Timing 1 27 28 29 P18220 2 Bearing, Main, Thrust 30 P18221 Crankshaft 1 31 P18222 Gear, Crankshaft 1 32 P18223 Screw, Cap 12

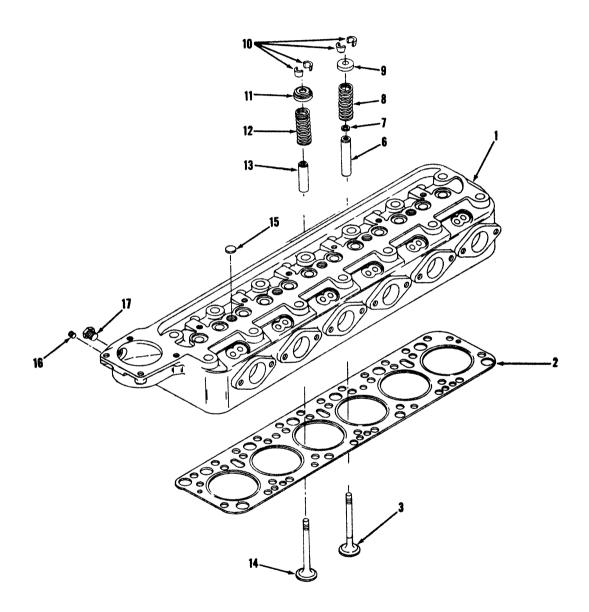
| REF. NO. | PART NO. | DESCRIPTION | OTY. REO. |
|----------|----------|--------------------------------------|-----------|
| 1 | P18224 | Rod, Push | 12 |
| 2 | P18225 | Valve Lifter | 12 |
| 3 | P18226 | Gear Camshaft | · ī |
| Δ | P18227 | Button, Thrust | į |
| 5 | P18228 | Spring Thrust Button | j |
| 6 | P18229 | Bushing, Camshaft | 4 |
| 7 | P18230 | Kev, Woodruff | j |
| 8 | P18231 | Camshaft Assy (Includes 3, 7) | i |
| Ŕ | P18232 | Camshaft | i |
| Ģ | P19233 | Gear, Idler | j |
| 9 | P18234 | Gear, Idler Assy (Includes 11,12,15) | i |
| 10 | P18235 | Spindle, Idler Gear | i |
| 11 | P18236 | Screw, Cap, Hex Head | ż |
| 12 | P18237 | Washer, Shakenroof | 2 |
| 13 | P18238 | Spring, Idler Gear Plunger | ĩ |
| 14 | P18239 | Plunger, Idler Gear | i |
| 15 | P18240 | Gear, Injection Pump Drive | i |



| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|----------|----------|----------------------|-----------|
| 1 | P18241 | Flywheel Housing | 1 |
| 2 | P18242 | Timing Pointer | 1 |
| 3 | P18243 | Cover, Timing Hole | 1 |
| 4 | P18244 | Washer, Lock | 1 |
| 5 | P18245 | Screw, Cap, Hex Head | 1 |
| 6 | P18246 | Pin Dowel | 2 |
| 7 | P18247 | Washer, Lock | 13 |
| 8 | P18248 | Screw, Cap, Hex Head | 8 |
| 8 9 | P18249 | Dust Plate | 1 |
| 10 | P18250 | Screw, Cap, Hex Head | 2 |
| 11 | P17321 | Starter | 1 |
| 12 | P12634 | Switch, Key Start | 1 |

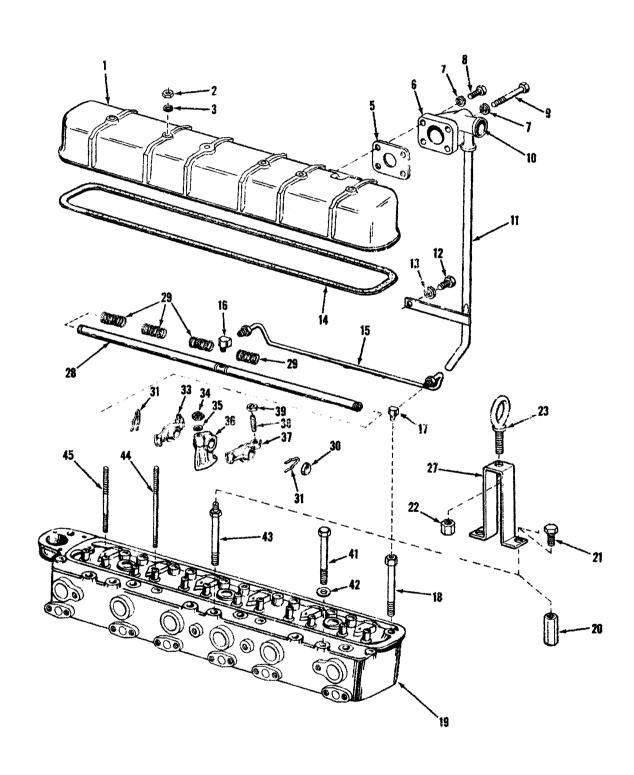


FLYWHEEL HOUSING, STARTER & SWITCH



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| REF. NO. | PART NO. | DESCRIPTION | OTY. REQ. |
|----------------------------|----------|--|-----------|
| 1 | P18252 | Head, Cylinder (Includes 4,6,13,15 & 16) | 1 |
| 7 | P18253 | Head, Cylinder (Includes 3,6-17) | i |
| 2 | P17963 | Gasket, Cylinder Head | i |
| 3 | P18254 | Valve, Intake | 6 |
| 4 | | | • |
| 5 | | | |
| 2 3 4 5 6 7 | P18255 | Guide, Intake Valve | 6 |
| | P18256 | Seal, Valve Stem | 12 |
| 8 9 | P18257 | Spring, Intake Valve | |
| 9 | P18258 | Retainer, Valve Spring | 6 6 |
| 10 | P18259 | Taner Valve | 24 |
| 11 | P18258 | Retainer, Valve Spring | 6 |
| 12 | P18257 | Spring, Éxhaust Valve | |
| 13 | P18255 | Guide, Exhaust Valve | 6 6 |
| 14 | P18260 | Valve, Exhaust | 6 |
| 15 | P18261 | Plug, Pipe | 5 |
| 16 | P18262 | Plug, Pipe | ĩ |
| 17 | P18263 | Plug, Pipe | i |



ROCKER ARMS - ROCKER ARM COVER & BREATHER

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| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|----------------------------|----------|--------------------------------------|----------------------------|
| 1 | P18264 | Cover, Rocker Arm | 1 |
| 2 | P18265 | Nut, Hex | 6 6 |
| 2 3 4 5 6 7 | P18266 | Washer, Flat | 6 |
| 4 | | Not Required VRD 283 | |
| 5 | P18267 | Gasket | 1 |
| 6 | P18268 | Flange, Breather | 1 |
| 7 | P18269 | Washer, Lock | 4 |
| 8 9 | P18236 | Screw, Hex Head | 2 |
| 9 | P18270 | Screw, Hex Head | 4 2 2 1 |
| 10 | P18271 | Plug | ī |
| 77 | P18272 | Tube, Breather | 1 |
| 12 | P18273 | Screw, Hex Head | 1 |
| 13 | P18247 | Washer, Lock | 1 |
| 14 | P17964 | Gasket | 1 |
| 15 | P18274 | Line Oil Assy | 1 |
| 16 | P18275 | Elbow, Inverted | i |
| 17 | P18275 | Elbow, Inverted | i |
| 18 | P18276 | Screw, Cap, Cylinder Head | i |
| 19 | P18252 | Head, Cylinder | i |
| 20 | P18277 | Coupling | 2 |
| 21 | P18278 | Screw, Hex Head | 2 |
| 22 | P18279 | Nut, Hex | 1 1 2 2 1 1 |
| 23 | P18280 | Bolt, Eye | 1 |
| 24 | | • | • |
| 25 | | | |
| 26 | | | |
| 27 | P18281 | Lifting Bracket | 1 |
| 28 | P18282 | Rocker Arm Shaft Assy. | 1 |
| | | (Includes 29-31, 33, 36-39) | |
| 28 A | P18283 | Rocker Arm Shaft Assy (Includes 30) | 1 |
| 29 | P18284 | Spring | |
| 30 | P18285 | Plug, Cup | 4 2 4 |
| 31 | P18286 | Cotter, Rocker Arm Shaft | 4 |
| 32 | | Not Required VRD 283 | |
| 33 | P18287 | Rocker Arm Assy. RH (Includes 38,39) | 6 |
| 34 | P18465 | Nut, Hex | 6 |
| 35 | P18247 | Washer, Lock | 6 |
| 36 | P18288 | Support, Rocker Arm | 6 6 6 12 |
| 37 | P18289 | Rocker Arm Assy LH (Includes 38,39) | 6 |
| 3 8 | P18290 | Screw, Adjusting | 12 |
| 39 | P18291 | Nut, Hex | 12 |
| 40 | | Not Required VRD 283 | |
| 41 | P18292 | Screw, Cylinder Head Cap | 11 |
| 42 | P18293 | Washer, Cylinder Head | |
| 43 | P18294 | Screw, Cylinder Head Cap | 2 |
| 44 | P18295 | Stud, Rocker Arm Support | 14 2 2 4 |
| 45 | P18296 | Stud, Rocker Arm Cover | 4 |
| | | | |

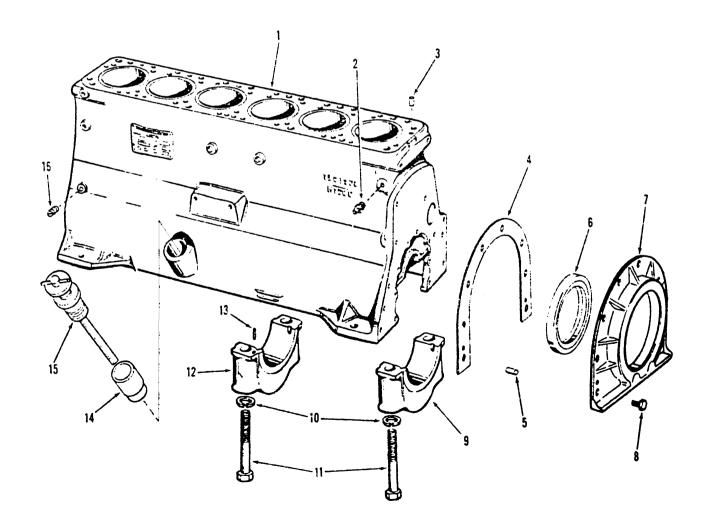
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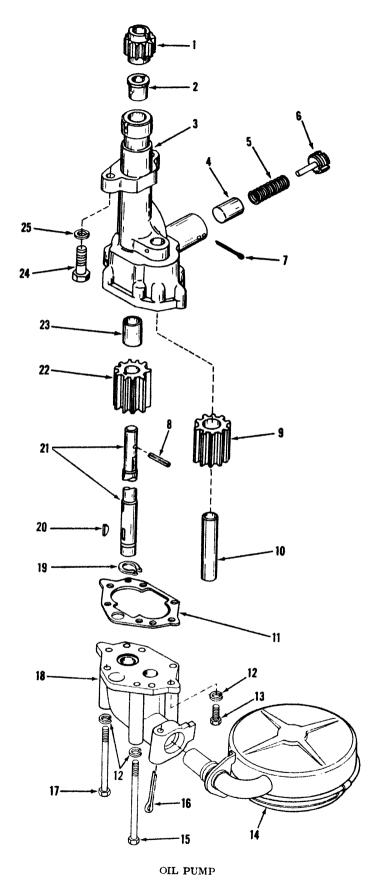
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WAUKESHA VRD 283

| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|--------------------------------------|----------|---------------------------------------|----------------------------|
| 1 | P18297 | Plug, Cup | 1 |
| 2 | P18298 | Plug, Dist. Hole | j |
| 3 | P18299 | Stud | |
| 4 | P18300 | Stud | 1 2 1 |
| 5 | P18301 | Plug, Cup | 1 |
| 6 | | 3 · | |
| 2 3 4 5 6 7 8 9 | P18302 | Tube, Oil, Timing Gears | 1 |
| ٥ | P18303 | Busning, Idler Gear | 2 |
| 10 | P18304 | Sleeve, Idler Gear Assy. (Includes 9) | ī |
| 11 | 110304 | Steeve, later bear histy. Therades by | • |
| 12 | P18305 | Plunger, Oil Relief Valve | 1 |
| 13 | P18306 | Spring, Oil Relief Valve | 1 |
| 14 | P18307 | Washer, Copper | 1 |
| 15 | P18308 | Screw, Oil Relief Valve | 1 |
| 16 | P18309 | Screw, Fil. Head | 4 |
| 17 | P18310 | Washer, Copper | 4 |
| 18 | P18311 | Plate, Cover | 1 |
| 19 | P18312 | Gasket, Cover | 7 |
| 20 | P18313 | Plug, Pipe. Allen Headless | İ |
| 21 22 | P18314 | Plug, Pipe, Square Head | 1 |
| 23 24 | P18315 | Expansion Plug | 1 |
| 25 26 27 28 29 | P18316 | Plug, Cup | 1 |
| | 23 | | 12 13 14 15 17 |
| 3 2 2 2 | | 22' | |

| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|----------|----------|----------------------------------|-----------|
| 1 | P18317 | Crankcase Assy. | 1 |
| 2 | P18318 | Plug, Pipe, Countersunk Headless | 1 |
| 3 | P18319 | Pin, Dowel | 2 |
| | P18320 | Gasket, Oil Retainer | 1 |
| 4 5 | P18321 | Pin, Dowel | 2 |
| 6 | P18322 | Seal, Oil Rear | 1 |
| 7 | P18323 | Retainer, Rear Oil Seal | 1 |
| 8 | P18324 | Screw, Cap, Hex Head | 8 |
| 9 | P18325 | Cap, Main Bearing | 6 |
| 10 | P18326 | Washer, Lock | 14 |
| 11 | P18327 | Screw, Main Bearing Cap | 14 |
| 12 | P18328 | Cap, Main Bearing, Thrust | 1 |
| 13 | P18329 | Pin, Dowel | 14 |
| 14 | P18330 | Pipe, Oil Filter | 1 |
| 15 | P18331 | Oil Gauge | 1 |
| 16 | P18332 | Plug, Pipe, Slotted Head | 6 |

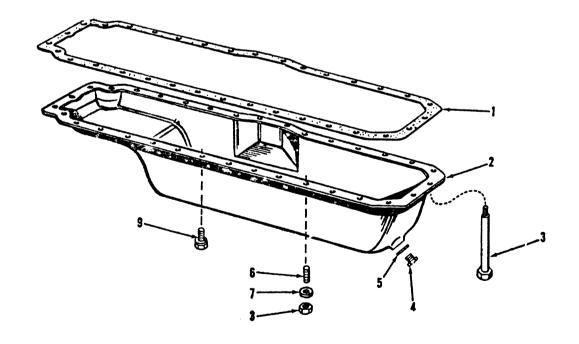




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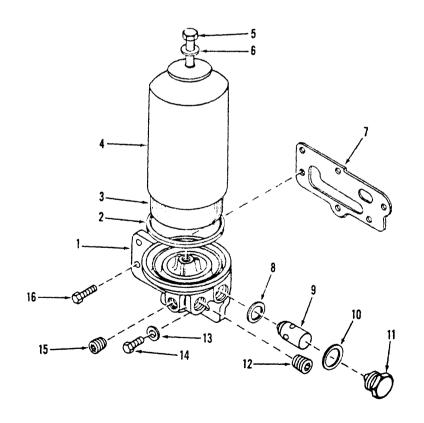
| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|--------------------------------------|----------|---|-----------|
| | P18339 | Pump; Oil Assy. (Includes 1-23) | 1 |
| 1 | P18340 | Gear, Oil Pump Drive | 1 |
| Ż | P18341 | Bushing, Oil Pump Body, Upper | 1 |
| 3 | P18342 | 011 Pump Body Assy. (Includes 2 & 23) | 1 |
| 2 3 4 5 6 7 8 9 | P18343 | Plunger, Relief Valve | 1 |
| 5 | P18344 | Spring, Relief | |
| 6 | P18345 | Screw, Adjustment | 1 |
| 7 | P18346 | Pin, Cotter | 1 |
| 8 | P18347 | Pin, Roll | 1 |
| 9 | P18348 | Gear, Oil Pump Idler | 1 |
| 10 | P18349 | Shaft, Oil Pump Idler | 1 |
| 11 | P18350 | Gasket, 011 Pump | 1 |
| 12 | P18269 | Washer, Lock | 6 |
| 13 | P18236 | Screw, Hex Head | 4 |
| 14 | P18351 | Float, Oil Screen | 1 |
| 15 | P18352 | Screw, Cap, Hex. Head | Ţ |
| 16 | P18353 | Pin, Cotter | 1 |
| 17 | P18354 | Screw, Cap, Hex Head | 1 |
| 18 | P18355 | Cover, Oil Pump | 1 |
| 19 | P18356 | Ring, Retaining | 1 |
| 20 | P18357 | Key, Woodruff | 1 |
| 21 | P18358 | Shaft, Oil Pump Drive | 1 |
| 21 | P18359 | Driveshaft, Oil Pump Assy. (Includes 19-22) | _ |
| 22 | P18360 | Gear, Oil Pump, Driven |] |
| 23 | P18361 | Bushing, Oil Pump, Lower | 1 |
| 24 | P18362 | Screw, Cap, Hex Head | 2 2 |
| 25 | P18247 | Washer, Lock | 2 |

| REF. NO. | PART NO. | DESCRIPTION | OTY. REO. |
|----------|----------|----------------------|-----------|
| 1 | P17967 | Gasket Oil Pan | 9 |
| 2 | P18333 | Qil Pan | ; |
| 3 | P18334 | Bolt, Oil Pan | 2 |
| 4 | P18335 | Plug, Oil Pan Drain | 1 |
| 5 | P18336 | Gasket | i |
| 6 | P18337 | Stud, Oil Pan | 10 |
| 7 | P18244 | Washer, Lock | 10 |
| 8 | P18338 | Nut, Hex | 10 |
| 9 | P18324 | Screw, Cap, Hex Head | 21 |

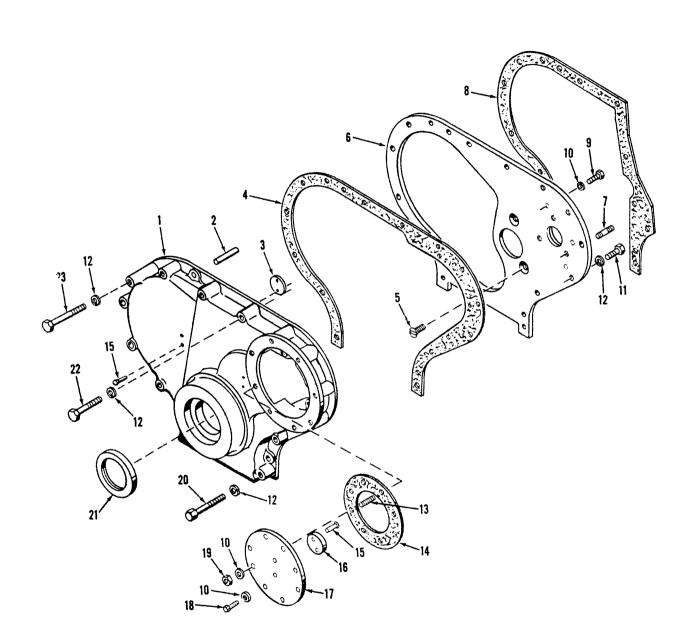


OIL PAN

| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|-------------|----------|----------------------------------|-----------|
| | | Oil Filter Assy. | 1 |
| 1 | P18363 | Base; Oil Filter | 1 |
| 2 | P18364 | Gasket, Filter Shell | 1 |
| 2 3 | P17317 | Element, Oil Filter (Includes 2) | 1 |
| 4 | P18080 | Shell Assy | 1 |
| 5 | P18081 | Gasket, Center Bolt | 1 |
| 4 5 6 | P18082 | Bolt, Center | 1 |
| 7 | P18366 | Gasket, Filter Base | 1 |
| 8 | P18367 | Sea 1 | 1 |
| 8 9 | P18368 | Valve, By-Pass | 1 |
| 10 | P18369 | Washer, Copper | 2 |
| 17 | P18370 | Plug, Relief Valve | 2 |
| 12 | P18318 | Plug, Pipe | 2 |
| 13 | P18371 | Washer, Brass | 1 |
| 14 | P18372 | Screw; Cap Hex Head | 1 |
| 15 | P18373 | Plug, Pipe | 1 |
| 16 | P18374 | Screg, Hex Head | 5 |



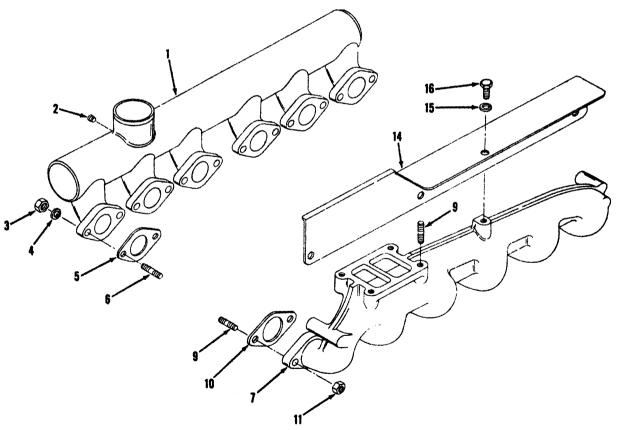
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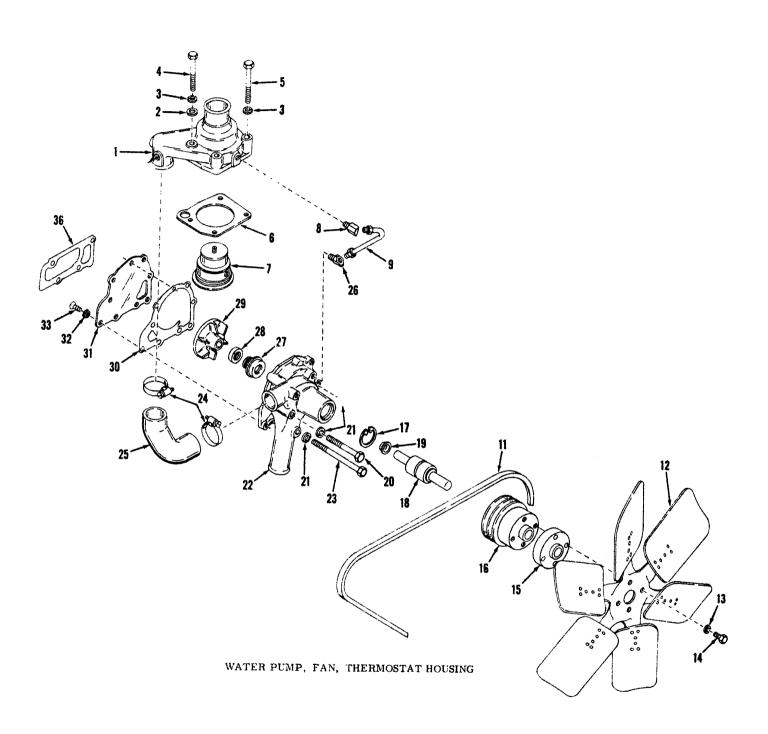
GEAR COVER

| REF. NO. | PART NO. | DESCRIPTION | OTY. REO. |
|----------------------------|----------|--|-----------|
| 1 | P18375 | Gear Cover Assy. (Includes 3, 15,21) | 1 |
| 2 3 4 5 6 7 | P18391 | Pin Dowel | 2 |
| 3 | P18376 | Button, Thrust | 2 |
| 4 | P17966 | Gasket, Gear Cover | l |
| 5 | P18377 | Screw, Flat Head | 2 |
| 6 | P18378 | Front Plate Assy (Includes 7) | 1 |
| 7 | P18379 | Stud, Fuel Injection Pump | 3 |
| 8 | P18380 | Gasket, Front Plate | 1 |
| 8 9 | P18381 | Screw, Cap, Hex Head | 3 |
| 10 | P18382 | Washer, Copper | 11 |
| 11 | P18383 | Screw, Cap, Hex Head | 5 |
| 12 | P18244 | Washer, Lock | 15 |
| 13 | P18337 | Stud | 1 |
| 14 | P17968 | Gasket, Injection Pump Gear Cover | j |
| 15 | P18384 | Rivet, Countersunk Head | 6 |
| 16 | P18385 | Button, Front | 1 |
| 17 | P18386 | Fuel Pump Cover Assy. (Includes 15,16) | j |
| 18 | P18387 | Screw, Cap, Hex Head | 7 |
| 19 | P18338 | Nut, Hex | 1 |
| 20 | P18388 | Screw, Cap, Hex Head | ė 8 |
| 21 | P17608 | Seal, Shaft Oil | ĭ |
| 22 | P18389 | Screw, Cap, Hex Head | j |
| 23 | P18390 | Screw, Cap, Hex Head | i |

| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|-----------------------|---|---|-----------|
| | P18399 | Exhaust Manifold Assy. (Includes 7,9,14-16) | 1 |
| 1 | P18392 | Manifold, Intake | j |
| 2 | P18313 | Plug, Pipe, Allen Head | 1 |
| 3 | P18265 | Nut, Hex | 12 |
| 4 | P18247 | Washer, Lock | 12 |
| 5 | P18393 | Gasket, Intake Manifold | 6 |
| 2 3 4 5 6 | P18394 | Stud | 12 |
| | P18395 | Manifold, Fxhaust | 1 |
| 7 8 9 | | | • |
| 9 | P18394 | Stud | 16 |
| 10 | P18396 | Gasket, Exhaust Manifold | 6 |
| ii | P18397 | Nut, Hex | 12 |
| 12 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | The by There | |
| 13 | | | |
| 14 | P18398 | Shield, Heat | 1 |
| 15 | P18247 | Washer, Lock | 4 |
| 16 | P18273 | Screw, Hex Head | 4 |
| | | our only man manual | • |
| | | | |
| | | | |



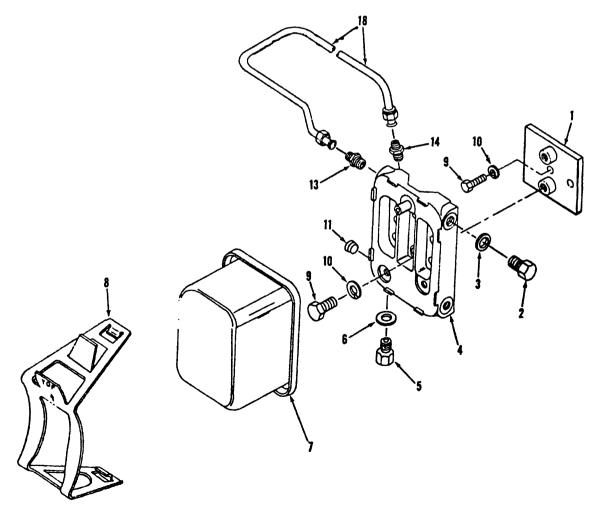
| REF. | NO. | PART | NO. | DESCRIPTION | QTY |
|---|--|--|-----|--|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | P1984 P1849 P1824 P1826 P1849 P1849 P1849 P1849 P1849 P1849 P1849 P1850 P1850 P1850 | 2 3 7 5 4 4 5 1 6 7 8 9 9 1 1 2 | | Alternator Strap, Adjusting Stud Lockwasher Nut, Hex Washer, Flat Washer Screw, Hex. Hd. Pulley Fan Screw, Hex Hd. Screw, Hex. Hd. Lockwasher Bracket Washer, Flat Spacer Nut, Hex | 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 1 |
| | | | 15 | | |



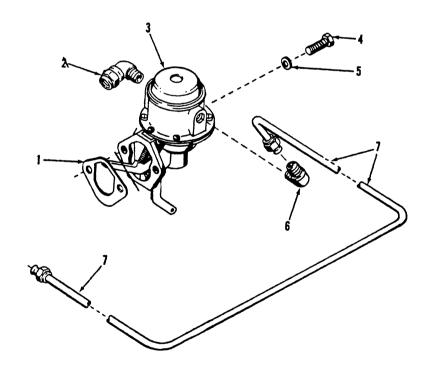
1758

| REF. | NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|-----------------------|-----|----------|--|-----------|
| | | P17437 | Water Pump Assy. (Includes 16-19, 22, 27-33) | 1 |
| 1 | | P18400 | Housing, Thermostat | j |
| 2 | | P18401 | Washer, Flat | i |
| 3 | | P18402 | Washer, Lock | 4 |
| 4 | | P18403 | Screw, Cap | 1 |
| 4 | | P18404 | Screw, Cap | 3 |
| 3 4 4 5 6 | | | ' | |
| 6 | | P18405 | Gasket, Thermostat Housing | 1 |
| 7 | | P18406 | Thermostat | 1 |
| 8 | | P18407 | Elbow, Inverted | 1 |
| 9 | | P18408 | Vent Line Assy. | 1 |
| 10 | | P18409 | Screw, Cap | 2 |
| 11 | | P17323 | Belt, Water Pump (Set of Two) | 2 1 |
| 12 | | P17320 | Blade-Fan | 1 |
| 13 | | P18244 | Washer, Lock | 4 |
| 14 | | P18410 | Screw, Cap | 4 |
| 15 | | P18411 | Spacer, Fan Blade | 1 |
| 16 | | P18412 | Pulley, Water Pump | 1 |
| 17 | | P18413 | Ring, Retaining | 1 |
| 18 | | P18414 | Shaft, Water Pump (Includes 19) | 1 |
| 19 | | P18415 | Slinger, Oil | 1 |
| 20 | | P18416 | Screw, Cap | 1 |
| 21 | | P18247 | Washer, Lock | 4 |
| 22 | | P18417 | Body, Water Pump | 1 |
| 23 | | P18418 | Screw, Cap | 1 |
| 24 | | P18419 | Clamp, Hose | 2 |
| 25 | | P18017 | Hose Assy. | 1 |
| 26 | | P18420 | Elbow, Inverted | 1 |
| 27 | | P18421 | Seal, Water Pump | 1 |
| 28 | | P18422 | Seat, Water Pump Seal | 1 |
| 29 | | P18423 | Impeller, Water Pump | 1 |
| 30 | | P18424 | Gasket | 1 |
| 31 | | P18425 | Cover, Water Pump | 1 |
| 32 | | P18426 | Washer, Shakeproof | 3 |
| 33 | | P18427 | Screw, Flat Head | 5 |
| 34 | | | | |
| 35 | | | | |
| 36 | | P18428 | Gasket, Water Pump | 1 |

| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|----------------------------|----------|-------------------------------|-----------|
| | P18440 | Base Assy. (Includes 2-6, 11) | 1 |
| | P17412 | Base Assy. (Includes 1-11) | 1 |
| 1 | P18429 | Bracket, Fuel Filter | 1 |
| 2 | P18430 | Plug, Filter Vent | 1 |
| 2 3 4 5 6 7 | P18431 | Washer, Seal | 1 |
| 4 | P18432 | Base | 1 |
| 5 | P18433 | Plug, Filter Drain | 1 |
| 6 | P18434 | Washer, Seal | 1 |
| 7 | P17316 | Element | 1 |
| 8 9 | P18435 | Clamp, Spring | 1 |
| 9 | P18248 | Screw, Hex Head | 4 |
| 10 | P18247 | Washer, Lock | 4 |
| 11 | P18436 | Plug, Pipe | 1 |
| 12 | | | |
| 13 | P18437 | Connector, Body | 1 |
| 14 | P18438 | Connector | 1 |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | P18439 | Fuel Line Assy | 1 |
| | | | |

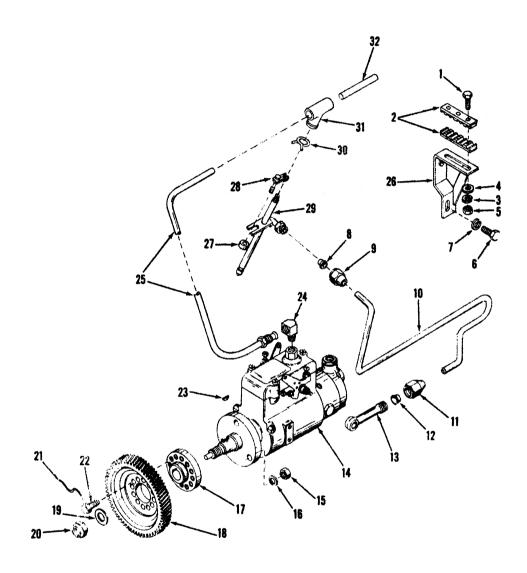


| REF. NO. | PART NO. | DESCRIPTION | QTY. REQ. |
|----------|----------|----------------------|-----------|
| 1 | P18441 | Gasket, Fuel Pump | 1 |
| 2 | P18442 | Elbow | 1 |
| 3 | P17573 | Pump, Fuel | 1 |
| 4 | P18443 | Screw, Cap, Hex Head | 2 |
| 5 | P18382 | Washer, Copper | 2 |
| 6 | P18444 | E1 bow | 1 |
| 7 | P18445 | Fuel Line Assy. | 1 |



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1759-A



INJECTION PUMP

| REF. NO | . PART NO. | DESCRIPTION | QTY. REQ. |
|---------------------------------|------------|--|---------------------------------|
| 7 | P18446 | Screw, Cap, Hex Head | 3 |
| | P18447 | Screw, Cap, Hex Head | 3 |
| 2 3 4 5 6 7 8 | P18448 | Clamp, Injection Tube | 3 3 4 |
| 3 | P18269 | Washer, Lock | 6 |
| 4 | | | • |
| 5 | P18449 | Nut, Hex | 6 |
| 6 | P18450 | Screw, Cap, Hex Head | Ĭ |
| 7 | P18247 | Washer, Lock | |
| | P18451 | Ferrule | 1 6 6 1 |
| 9 | P18452 | Nut, Injector | Š |
| 10 | P18453 | Injection Lines Assy. (Set of 6) | ĭ |
| | P18454 | Tube Assy #1 (Includes 8,9,11,12) | i |
| | P18455 | Tube Assy #2 (Includes 8,9,11,12) | 1 |
| | P18456 | Tube Assy #3 (Includes 8,9,11,12) | i |
| | P18457 | Tube Assy #4 (Includes 8,9,11,12) | i |
| | P18458 | Tube Assy #5 (Includes 8,9,11,12) | i |
| | P18459 | Tube Assy #6 (Includes 8,9,11,12) | i |
| 11 | P18460 | Nut, Fuel Injection Tube | , |
| 12 | P18461 | Ferrule | 6 |
| 13 | P18462 | Connector, Fuel Tube | 1 1 6 6 1 3 3 |
| 14 | P18463 | Pump Injection | ĭ |
| 15 | P18464 | Nut, Flex-Loc | 3 |
| 16 | P18465 | Washer, Flat | 3 |
| 17 | P18466 | Hub, Fuel Pump Gear | 1 |
| 18 | P18467 | Gear, Fuel Pump | j |
| 19 | P18468 | Washer, Flat | i |
| 20 | P18469 | Nut, Flex-Loc | i |
| 21 | P18470 | Wire, Lock | i |
| 22 | P18471 | Screw, Cap, Hex Head | ż |
| 23 | P18472 | Key, Woodruff |] 1 2 1 |
| 24 | P18407 | Elbow, Inverted | i |
| 25 | P18473 | Line, Leak-off, Pump to No.1 Injector | j |
| 26 | P18474 | Bracket | |
| 27 | P18475 | Spacer, Injector Nozzle | Ė |
| 28 | P18476 | Nozzle, Clamp Assy. | Š |
| 29 | P18477 | Nozzle Assy. | 1 6 6 6 6 |
| 30 | P18478 | Clamp Leak-Off | ĕ |
| 31 | P18479 | Boot, Leak-Off | Ř |
| 32 | P18480 | Leak-Off Line Assy. (Includes 30,31) | ĭ |
| | P18481 | Line, Leak-Off | 5 |
| | | and the second s | • |

PARTS NOT ILLUSTRATED

| Short Block | P-18251 |
|--------------------------------|---------|
| Quick Start Kit | P-17155 |
| Refill Cylinders (Quick Start) | P-17703 |
| Complete Gasket Set | P-18482 |
| Single Piston Ring | P-18483 |
| Plastic Tube, Ouick Start | D_18435 |

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SPEC 5800, 6037 & 7201

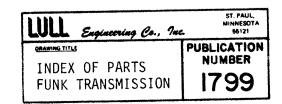
FUNK TRANSMISSION-INDEX

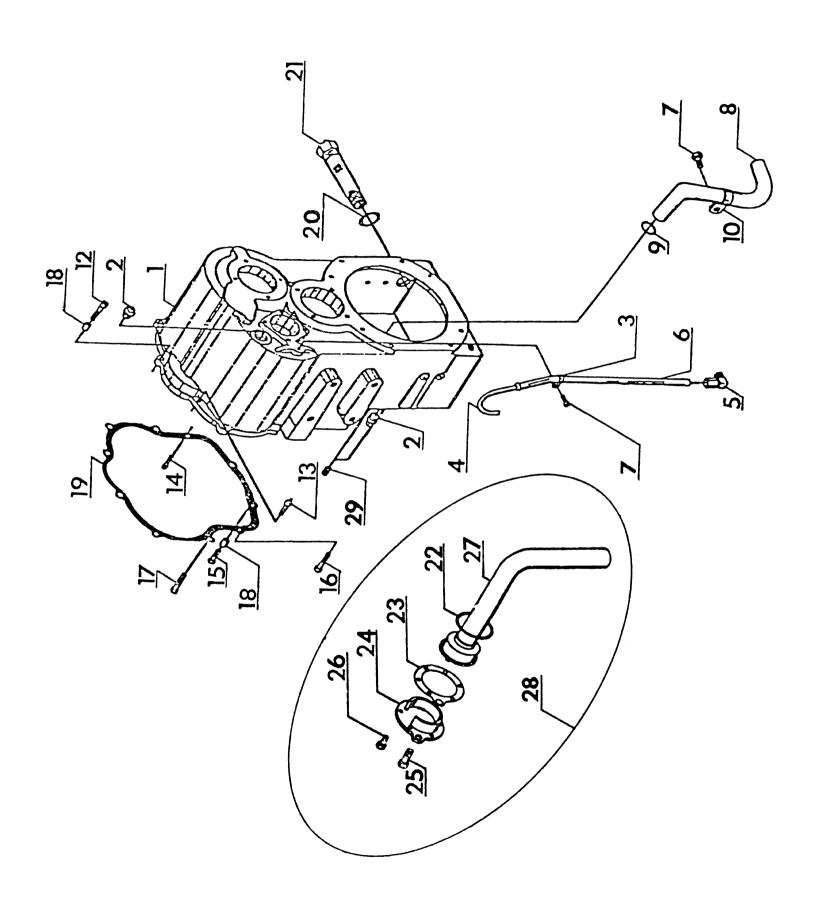
844 S/N 101 THRU 439, 441, 442, 626, 632 634, 636, 638, 639, 642, 653, 660 & 661

400B S/N 2001 THRU 2156

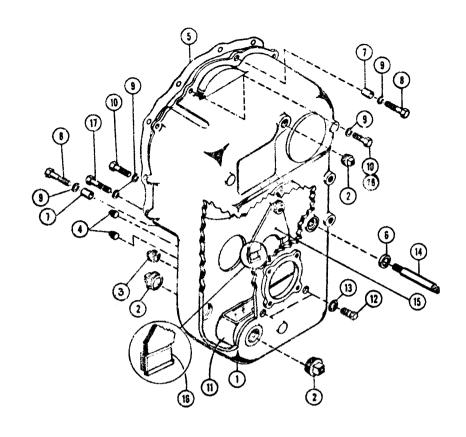
4D4B S/N 1101 THRU

| ASSEMBLY | PUBLICATION NO. |
|---------------------------------------|-----------------|
| Main Case Assembly | 1800 |
| Oil Strainer Assembly | 1800-A |
| Output Group Assembly | 1801 |
| Output Retainer Assembly | 1801-A |
| Clutch Assembly, 1st Stage | 1802 |
| Clutch Assembly, 2nd Stage | 1803 |
| Clutch Assembly, 3rd Stage | 1804 |
| Remote Oil Filter - Spec 5800 ONLY | 1805 |
| Brake Assembly - Spec 5800 ONLY | 1805-A |
| Front Cover Assembly | 1812 |
| Pump Assembly | 1813 |
| Valve Control Assembly | 1814 |
| Yoke Group Assembly | 1815 |
| Drive Plate Assembly | 1815-A |
| Remote Oil Filter Assembly | 1816 |
| Converter Assembly - Spec 5800 & 7201 | 1817 |
| Converter Assembly - Spec 6037 | 1818 |
| | |



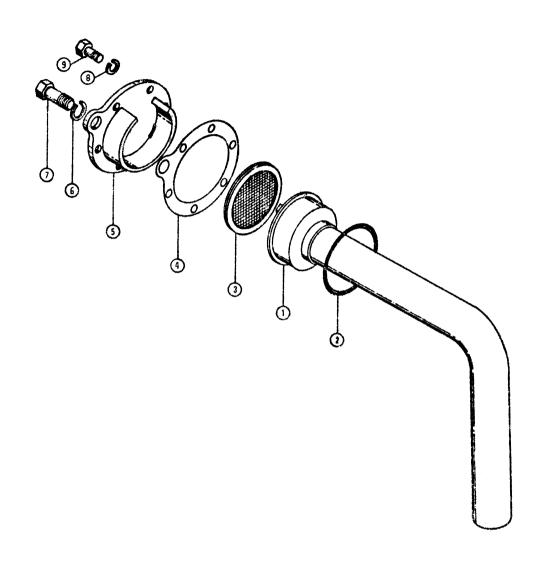


| ITEM | PART NO. | DESCRIPTION | | QTY. |
|--|--|---|---|---|
| | P20860 P24572 | Main Case Group Assy. Main Case Group Assy. | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 1 |
| 1 | P20861 P24571 | Main Case Main Case | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 1 |
| 2 3 4 5 6 7 8 9 | P18565 P24542 P24544 P24540 P24545 | Pipe Plug Clamp, Dipstick Dipstick 90° Elbow, Male Tube, Dipstick | Spec 7711B & 8239B & 9673 Spec 7711B & 8239B & 9673 | 2 1 1 1 1 2 |
| 8 9 10 11 | P22788 P24568 P24583 P24543 | Capscrew Tube, Suction Retaining Ring Clamp, Tube | Spec 77118 & 82398 & 9673 Spec 77118 & 82398 & 9673 Spec 77118 & 82398 & 9673 Spec 77118 & 82398 & 9673 | 1 1 1 1 |
| 12 | P19790 P24595 | Capscrew Capscrew | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 1 |
| 13 | P19791 P24596 | Capscrew Capscrew | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 3 |
| 14 15 16 17 18 19 20 | P18573 P18571 P22792 P18580 P18570 P18568 P20863 | Capscrew Capscrew Capscrew Capscrew Locating Bushing Gasket, Main Case Gasket, Suction Screen | | 3 1 1 2 1 1 1 |
| 21 22 23 24 25 26 27 28 29 | P20862 P24534 P18649 P18651 P24581 P22793 P18542 P24580 P20864 P18567 | Suction Screen Suction Screen O-Ring, Strainer Gasket, Strainer Cover, Strainer Capscrew Capscrew Tube, Suction Oil Strainer Assembly Pipe Plug | Spec 7711A & 8239A Spec 7711A & 8239A & 9673 Spec 7711A & 8239A Spec 7711A & 8239A | 1 1 1 1 1 6 1 1 2 |

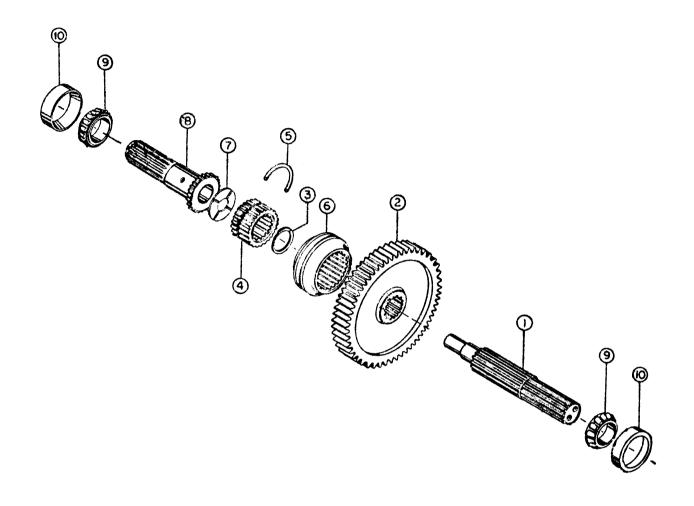


| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|---|---|--|
| | P18563 | Main Case Assembly Spec 5800, 6037 & 7201 | 1 |
| 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. | P18564 P18565 P18565 P18567 P18568 P18569 P18570 P18571 P18572 P18573 P19789 P19790 P18576 P18577 P18577 P18577 P18578 P18579 P18580 P19791 | Main Case Plug Drain Plug (Magnet) Plug Gasket Seal Bushing Capscrew Lockwasher Capscrew Oil Trough Capscrew Washer Shaft Fork Clip Capscrew Capscrew | 1 3 1 2 1 1 2 1 10 4 1 1 2 1 1 2 1 1 2 1 3 |
| | | | |

| LULL | Engineering Co., | Tue. | |
|--------------|---------------------------|------|-----------------------|
| DRAWING TITL | | | PUBLICATION NUMBER |
| 1 | CASE & OIL NER ASSEMBL | Υ | 1800 |

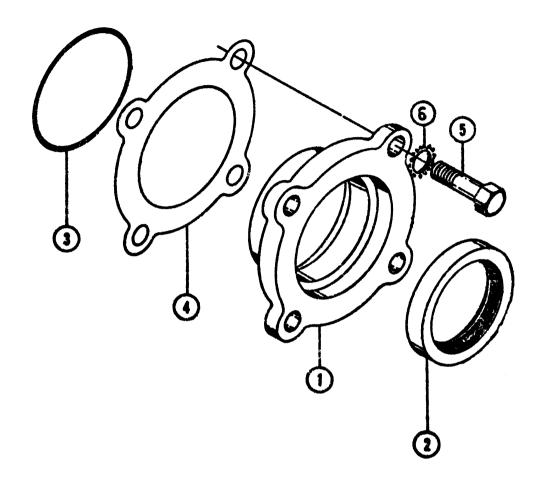


| ITEM | PART NO. | DESCRIPTION | QTY. |
|--|--|--|--------------------------------------|
| | P18647 | Oil Strainer Assembly Spec 5800, 6037 & 7201 | 1 |
| 1. 2. 3. 4. 5. 6. 7. 8. | P18648 P18649 P18650 P18651 P18652 P18572 P22793 P18713 P18542 | Oil Strainer O-Ring Screen Gasket Oil Strainer Cover Lockwasher, 1/2" Capscrew, 1/2" - 13 x 2-1/2" Lg. Lockwasher, 5/16" Capscrew, 5/16" - 18 x 7/8" Lg. | 1 1 1 1 1 1 6 6 |

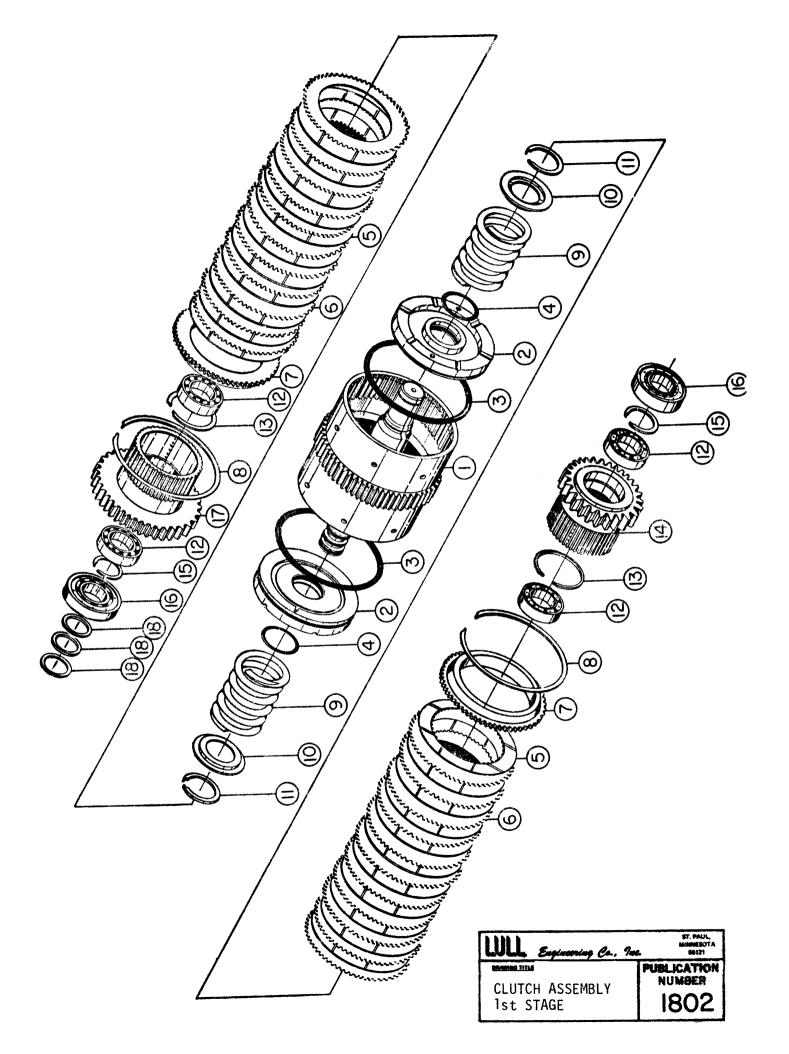


| ITEM | PART NO. | DESCRIPTION | QTY. |
|--|--|---|--------------------------------------|
| | P18636 | Output Group Assembly Spec 5800, 6037 & 720 | 1 |
| 1. 2. 3. 4. 5. 6. 7. 8. 9. | P18637 P18638 P18639 P18640 P18641 P18642 P18643 P18644 P18645 P18646 | Asm. Shaft Gear, Output Ring, Retainer Hub Disc. Ring, Detent Collar, Shifting Washer, Thrust Asm. Shaft Cone, Bearing Cup, Bearing | 1 1 1 1 1 1 1 2 |

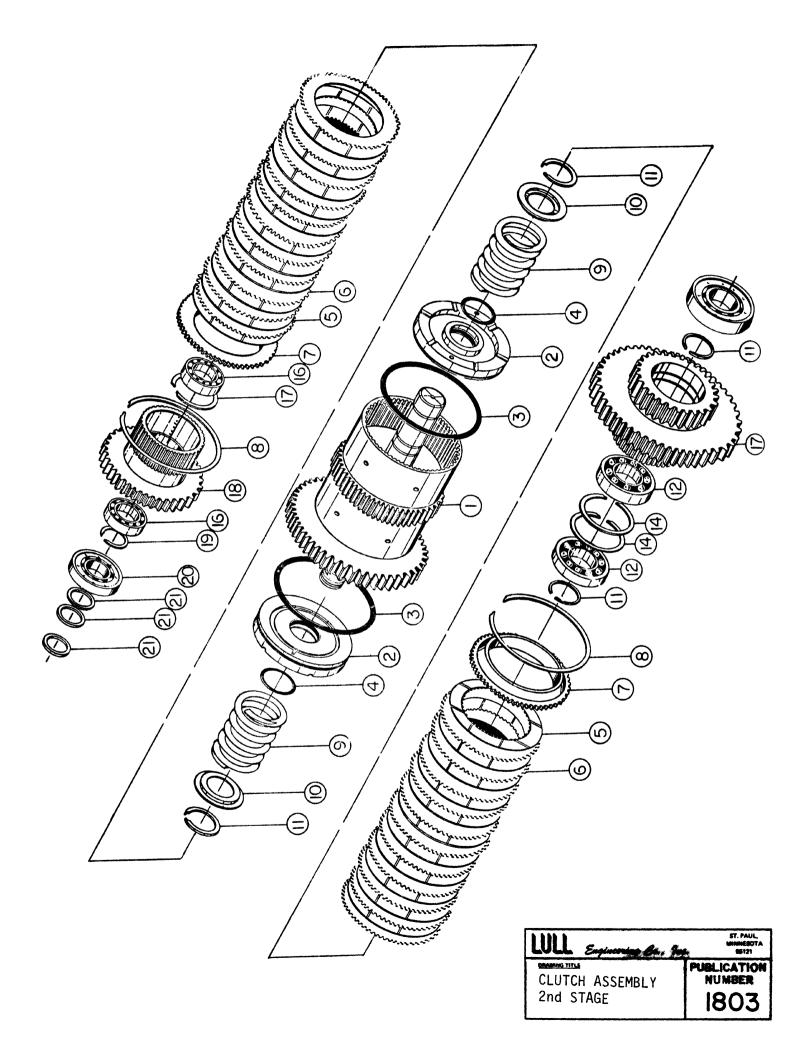
| LULL Engineering Co., Two | ST. PAUL. MINNESOTA & 56121 |
|---------------------------|-----------------------------------|
| OUTPUT & OUTPUT | PUBLICATION NUMBER |
| RETAINER ASSEMBLY | 1801 |



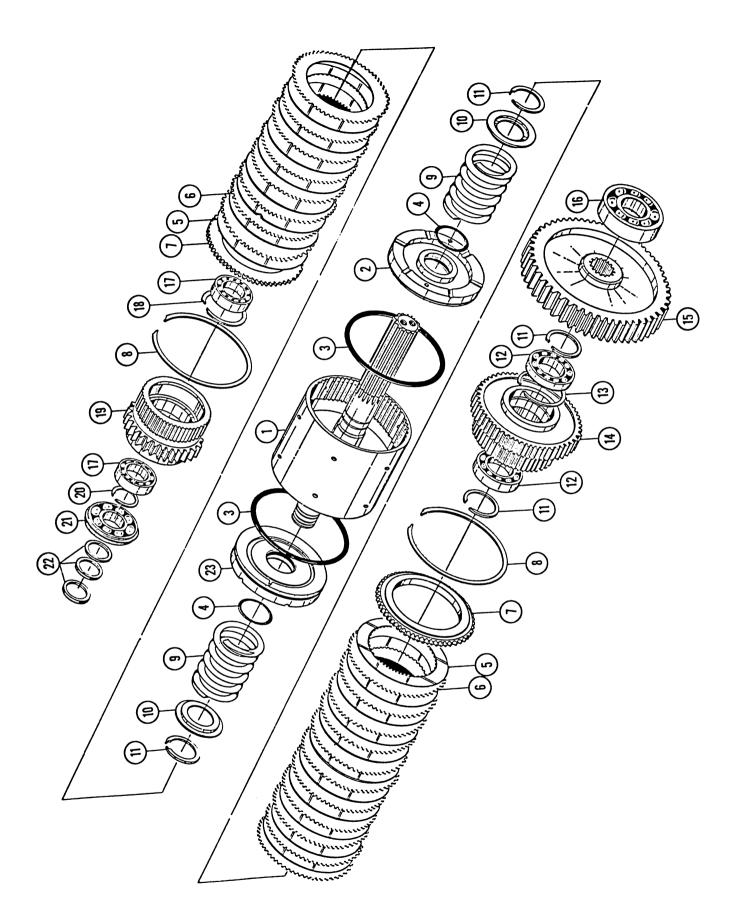
| ITEM | PART NO. | DESCRIPTION | QTY. |
|----------------------------|--|--|----------------------------|
| | P18678 | Retainer Assembly, Output Group | 1 |
| 1. 2. 3. 4. 5. | P18679 P18680 P18681 P18682 Com'1 Com'1 | Bearing Retainer Oil Seal O-Ring Shim, Bearing Retainer Capscrew, Hex., 1/2" - 13 x 1-1/4" Long Star Washer, Ext. 1/2" | 1 1 1 1 1 4 |



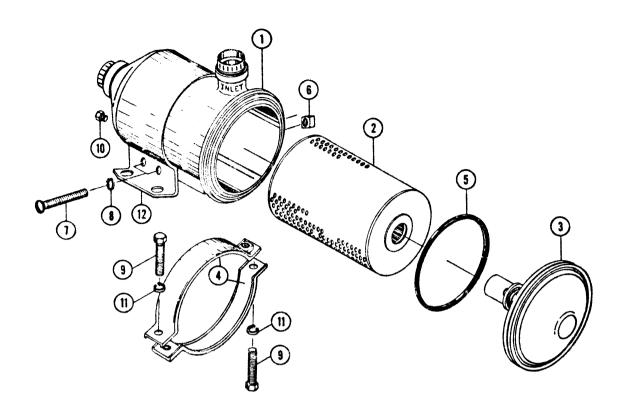
| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|--|---|---|
| | P18603 | Clutch Assembly, 1ST Stage (Spec 7201 & 580 | 00) 1 |
| | P19817 | Clutch Assembly, 1ST. Stage (Spec 6037) | |
| 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. | P18604 P18605 P18606 P18607 P18608 P18609 P18610 P18611 P18612 P18613 P18614 P18615 P18616 | Clutch, 1ST. Stage Piston, Clutch Ring, Seal O-Ring, Piston Plate, Clutch Plate, Separator Retainer, Clutch Plate Snap Ring Clutch Spring Retainer, Clutch Spring Ring, Retainer Bearing Ring, Retainer | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 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 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 2 1 2 1 2 2 1 2 2 1 2 2 2 1 2 1 2 2 2 2 1 2 |
| 14. 15. | P18617 P18618 | Asm. Gear & Hub Retaining Ring | 1 |
| 16. | P18619 | Bearing, Roller | 2 |
| 17. | P18627 | Asm. Gear & Hub (Used with P18603 Ass'y.) | ī |
| 18. | P19763 P18 6 20 | Asm. Gear & Hub (Used with P19818 Ass'y.) Ring, Seal | 1 3 |



| ITEM | PART NO. | DESCRIPTION | QTY. |
|------------|------------------|--|---|
| | P18621 | Clutch Assembly, 2ND Stage (Spec 7201 & 5800 |)) 1 |
| | P19819 | Clutch Assembly, 2ND Stage (Spec 6037) | 1 |
| 1. | P18622 P19819 | Clutch, 2ND Stage (Used with P18621 Ass'y.) Clutch, 2ND Stage (Used with P19818 Ass'y.) | 1 1 2 2 2 2 2 22 |
| 2. | P18605 | Piston, Clutch | 2 |
| 3. | P18606 | Ring, Seal | 2 |
| 4. | P18607 | O-Ring, Piston | 22 |
| 5. | P18608 | Plate, Clutch | 22 |
| 6. | P18609 | Plate, Sepeator | 22 |
| 7. | P18610 | Retainer, Clutch Plate | 2 |
| 8. | P18611 | Snap Ring | 2 |
| 9. | P18612 | Clutch Spring Retainer, Clutch Spring | 2 |
| 10. | P18613 | Ring, Retainer | Λ |
| 11. 12. | P18614 P18623 | Bearing | 2 |
| 13. | P18624 | Asm. Gear & Hub | 1 |
| 14. | P18625 | Ring, Retainer | 2 |
| 15. | P18626 | Bearing, Roller | ī |
| 16. | P18615 | Bearing | 2 |
| 17. | P18616 | Ring, Retainer | ī |
| 18. | P18627 | Asm. Gear & Hub (Input Side) | 22 2 2 2 2 2 1 2 1 1 1 1 1 3 |
| 19. | P18618 | Ring, Retainer | ī |
| 20. | P18619 | Bearing, Roller | ī |
| 21. | P18620 | Ring, Seal | 3 |



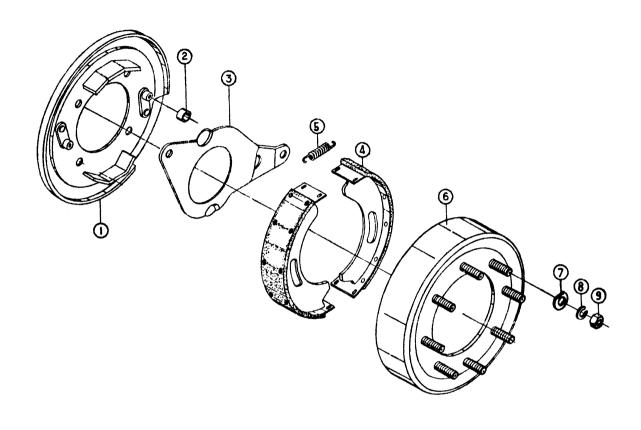
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|----------|---|--|
| | P18628 | Clutch Assembly, 3RD Stage (Spec 5800, 6037 | & 7201) |
| 1. | P18629 | Clutch, 3RD Stage | 1 |
| 2. | P18605 | Piston, Clutch | 1 |
| 3. | P18606 | Ring, Seal | 1 1 2 2 |
| 4. | P18607 | O Ring, Piston | 2 |
| 5. | P18608 | Plate, Clutch | 19 |
| 6. | P18609 | Plate, Sepeator | 19 |
| 7. | P18610 | Retainer, Clutch Plate | 2 |
| 8. | P18611 | Snap Ring | 2 |
| 9. | P18612 | Clutch Spring | 2 |
| 10. | P18613 | Retainer, Clutch Spring | 2 |
| 11. | P18614 | Ring, Retainer | 4 |
| 12. | P18633 | Bearing | 2 |
| 13. | P18630 | Ring | 1 |
| 14. | P18631 | Asm. Gear & Hub | 1 |
| 15. | P18632 | Gear | 1 |
| 16. | P18626 | Bearing, Roller | 1 |
| 17. | P18615 | Bearing | 2 |
| 18. | P18616 | Ring | 1 |
| 19. | P18634 | Asm. Gear & Hub | 1 |
| 20. | P18618 | Ring, Retainer | 1 |
| 21. | P18619 | Bearing, Roller | 2 2 2 4 2 1 1 1 2 1 1 1 3 1 |
| 22. | P18620 | Ring, Seal | 3 |
| 23. | P18635 | Piston, Clutch | 1 |



| ITEM | PART NO. | DESCRIPTION | QTY. |
|---|--|---|---|
| | P17814 | Remote Oil Filter Assy.* Spec 5800 ONLY | 1 |
| 1 2 3 4 5 6 7 8 9 | P18707 P17815 P18708 P18709 P18710 P18711 P18712 P18713 P18714 P18715 | Case Element Cover & By-Pass Valve Clamp Ring Gasket Sq. Hd. Nut Screw Lockwasher Capscrew Plug | 1 1 1 1 2 2 2 2 2 |
| 11 12 | P18716 P18717 | Lockwasher Bracket | 2 1 |

* USED ON 844 S/N 101 THRU 112,114 & 115

| LULL Engineering Ca. | ST. PAUL, MINNESOTA 86121 |
|----------------------|---------------------------------|
| OIL FILTER & | PUBLICATION |
| BRAKE ASSEMBLY | NUMBER |
| SPEC 5800 ONLY | 1805 |



| ITEM | PART NO. | DESCRIPTION | QTY. |
|--|---|--|--------------------------------------|
| | P18690 | Brake Assembly * Spec 5800 ONLY | 1 |
| 1. 2. 3. 4. 5. 6. 7. 8. | P18691 P18692 P18693 P18694 P18695 P18696 P18697 Com'l | Backing Plate Spacer Bell Crank Brake Shoe Return Spring Brake Drum Washer, Clipped Lockwasher, 3/8" Med. Spring Nut, 3/8" - 24 Hex Full | 1 1 1 2 2 1 8 8 |

FUNK TRANSMISSION BREAKDOWN

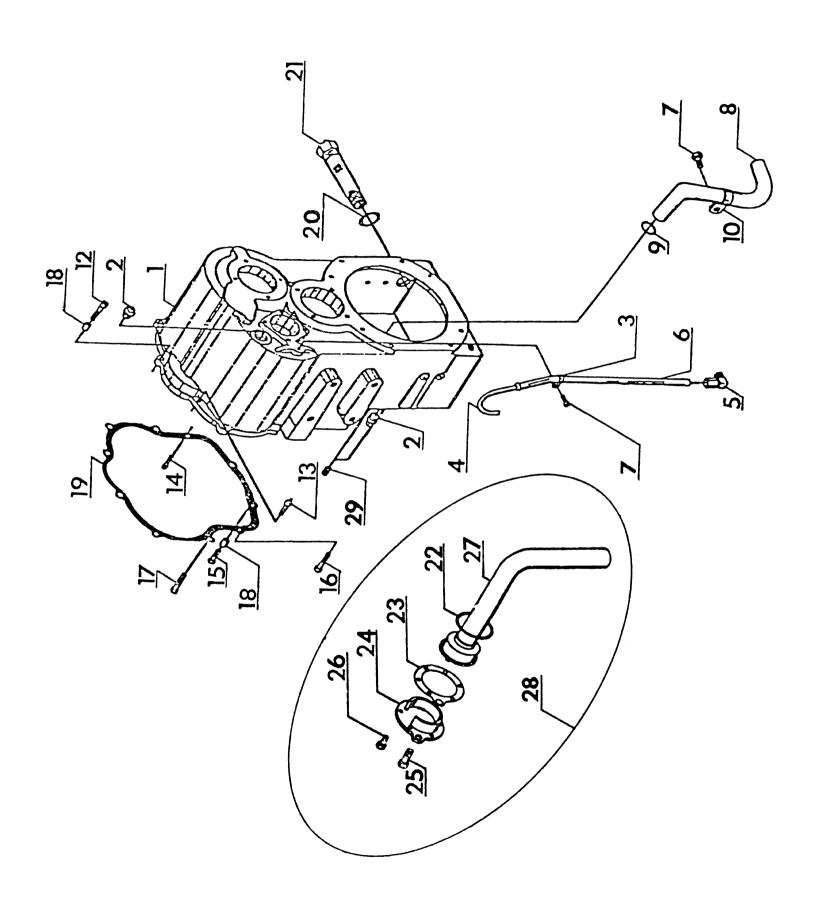
Spec #7711, 8239 & 9673 Transmission Variations

844 S/N 440, 443 THRU (Except S/N 626, 632, 634, 636, 638, 639, 642, 653, 660 & 661)

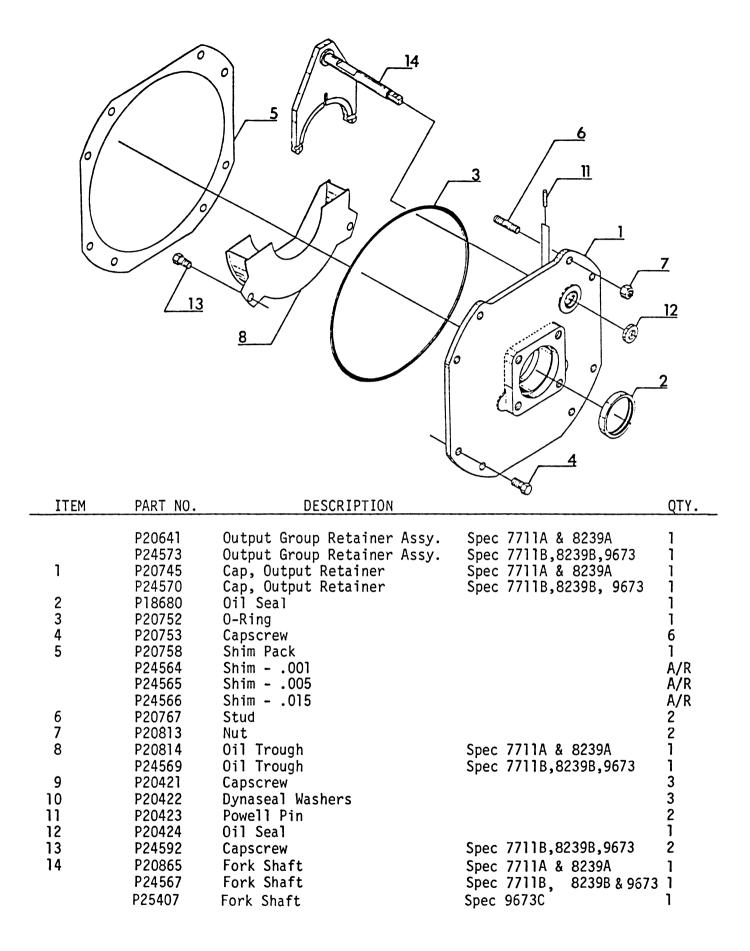
400B S/N 2157 THRU

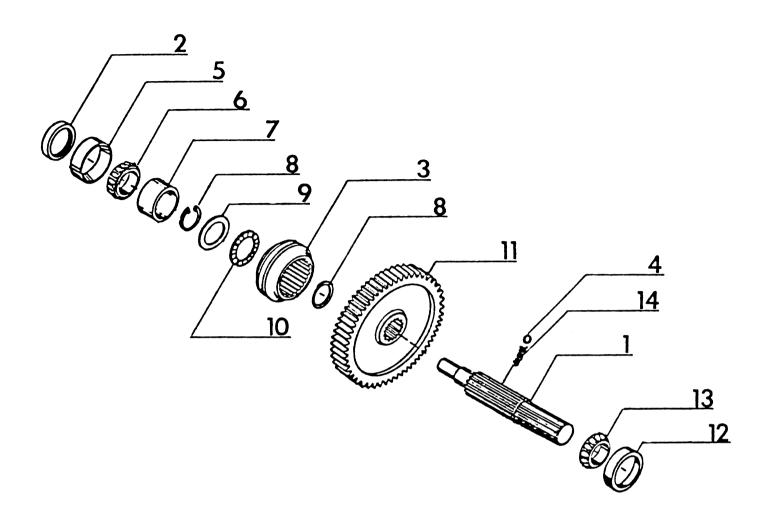
INDEX OF PARTS

| ASSEMBLY | PUBLICATION NO. |
|--|-----------------|
| Main Case Assembly | 1807 |
| Output Group Assembly | 1808 |
| Output Retainer Assembly | 1808 |
| Clutch Assembly, 1st Stage | 1809 |
| Clutch Assembly, 2nd Stage | 1810 |
| Clutch Assembly, 3rd Stage | 1811 |
| Front Cover Assembly | 1812 |
| Pump Assembly | 1813 |
| Valve Control Assembly | 1814 |
| Yoke Group Assembly | 1815 |
| Drive Plate Assembly | 1815 |
| Remote Oil Filter Assembly | 1816 |
| Parking Brake Assembly - Spec 9673C | 1816 |
| Conver Assembly - Spec 8239 & 9673 | 1817 |
| Conver Assembly - Spec 7711A | 1818 |
| Converter Assembly - Spec 7711B & 9673 | 1819 |
| Converter Assembly - Spec 9673C | 1819-1 |

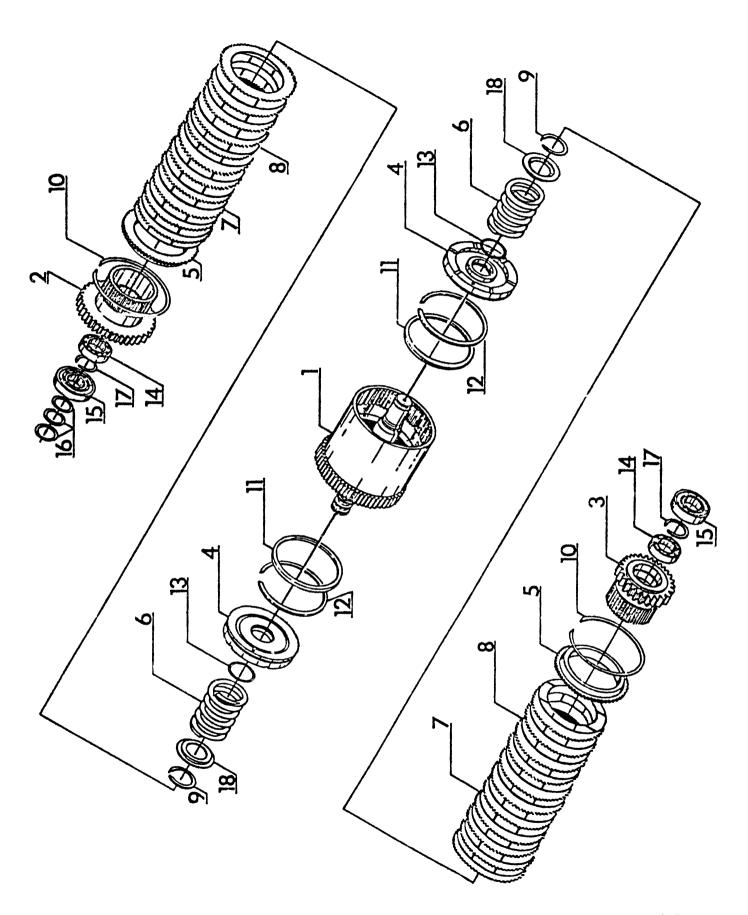


| ITEM | PART NO. | DESCRIPTION | | QTY. |
|--|--|---|---|---|
| | P20860 P24572 | Main Case Group Assy. Main Case Group Assy. | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 1 |
| 1 | P20861 P24571 | Main Case Main Case | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 1 |
| 2 3 4 5 6 7 8 9 | P18565 P24542 P24544 P24540 P24545 | Pipe Plug Clamp, Dipstick Dipstick 90° Elbow, Male Tube, Dipstick | Spec 7711B & 8239B & 9673 Spec 7711B & 8239B & 9673 | 2 1 1 1 1 2 |
| 8 9 10 11 | P22788 P24568 P24583 P24543 | Capscrew Tube, Suction Retaining Ring Clamp, Tube | Spec 77118 & 82398 & 9673 Spec 77118 & 82398 & 9673 Spec 77118 & 82398 & 9673 Spec 77118 & 82398 & 9673 | 1 1 1 1 |
| 12 | P19790 P24595 | Capscrew Capscrew | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 1 |
| 13 | P19791 P24596 | Capscrew Capscrew | Spec 7711A & 8239A Spec 7711B & 8239B & 9673 | 3 |
| 14 15 16 17 18 19 20 | P18573 P18571 P22792 P18580 P18570 P18568 P20863 | Capscrew Capscrew Capscrew Capscrew Locating Bushing Gasket, Main Case Gasket, Suction Screen | | 3 1 1 2 1 1 1 |
| 21 22 23 24 25 26 27 28 29 | P20862 P24534 P18649 P18651 P24581 P22793 P18542 P24580 P20864 P18567 | Suction Screen Suction Screen O-Ring, Strainer Gasket, Strainer Cover, Strainer Capscrew Capscrew Tube, Suction Oil Strainer Assembly Pipe Plug | Spec 7711A & 8239A Spec 7711A & 8239A & 9673 Spec 7711A & 8239A Spec 7711A & 8239A | 1 1 1 1 1 6 1 1 2 |

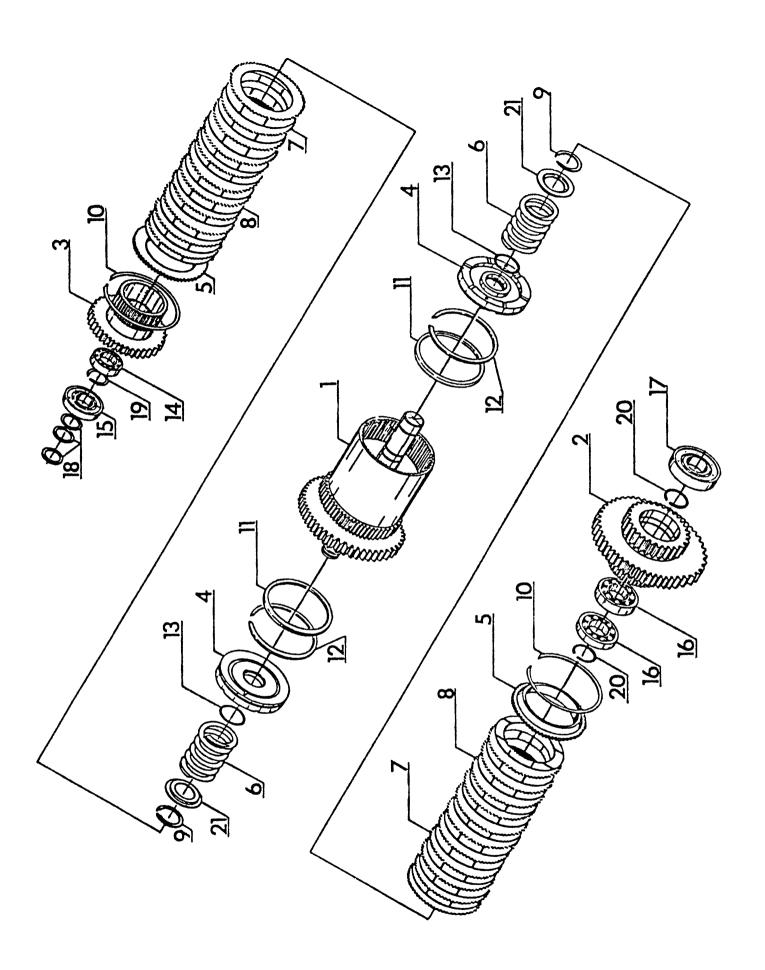




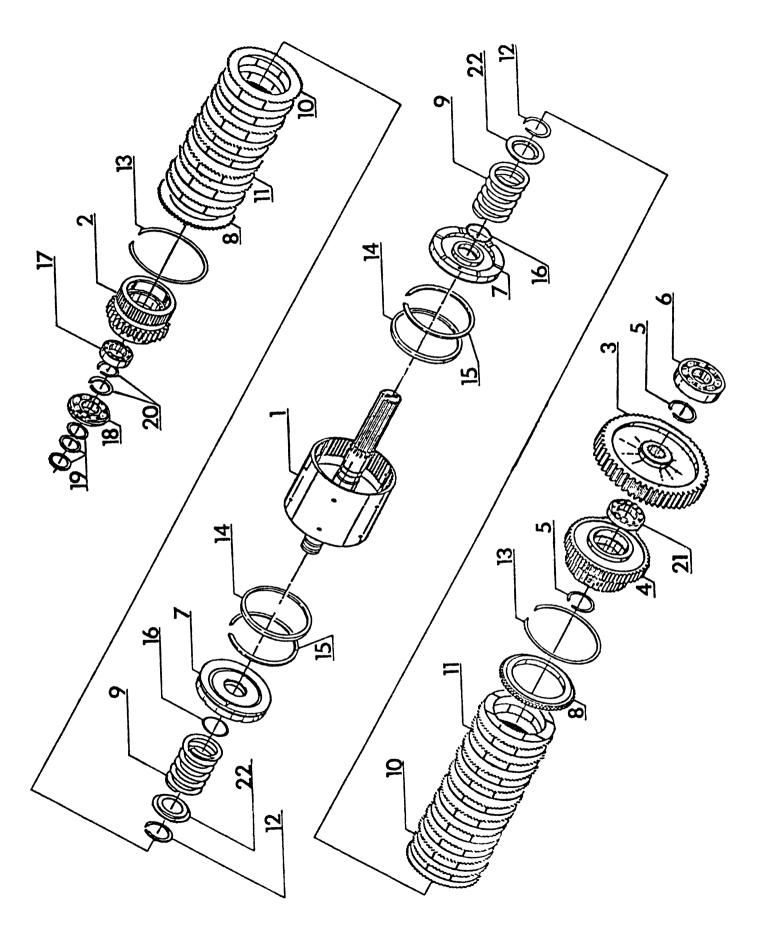
| ITEM | PART NO. | DESCRIPTION | | QTY |
|---|--|---|----------------------|--------------------------------------|
| | P20629 | Output Group Assembly | Spec 7711, 8239 & 96 | 73 1 |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 | P20656 P20710 P20658 P20659 P20667 P20668 P20690 P20685 P20686 P20688 P20722 P20705 P20709 | Output Shaft Oil Seal Shift Collar Ball Cup Bearing Cone Bearing Spacer Snap Ring Thrust Washer Thrust Bearing Output Gear Cup Bearing Cone Bearing | |]] 3]] 2]] |
| 14 | P20728 | Spring | | 3 |



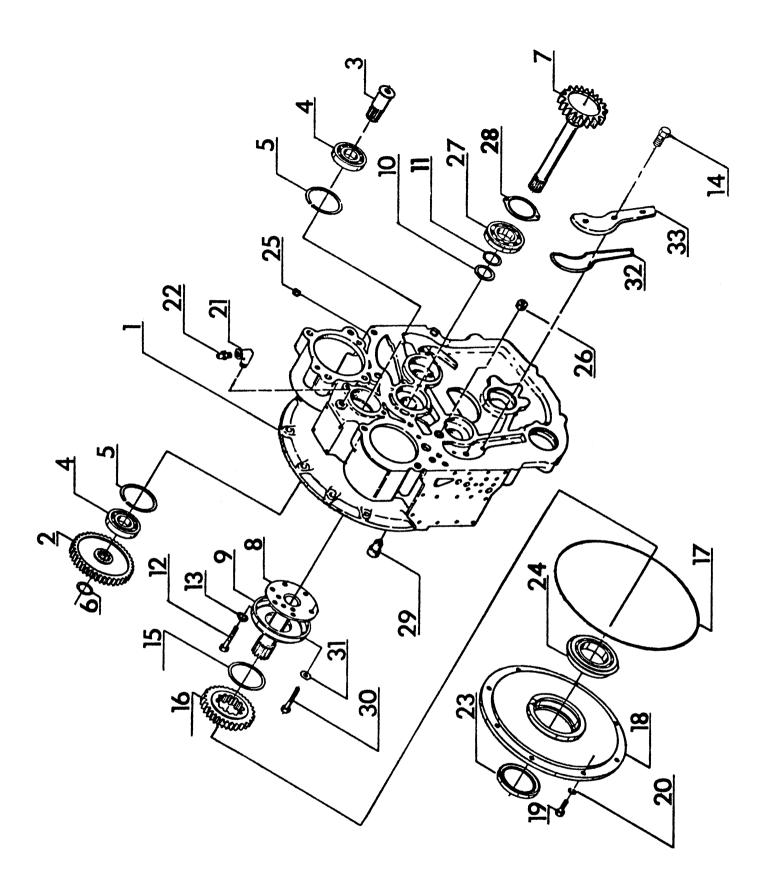
| ITEM | PART NO. | DESCRIPTON | QTY. |
|-------------|--|---|---|
| | P24518 P20517 P20521 P24575 P26890 | Clutch Assy., 1st Stage Spec 8239A Clutch Assy., 1st Stage Spec 8239B & 9673 Clutch Assy., 1st Stage Spec 7711A Clutch Assy., 1st Stage Spec 7711B Clutch Assy., 1st Stage Spec 7711B | 1 1 1 1 |
| | | Clutch Assy., 1st Stage Spec 9673D | 1 |
| 1 | P26887 | Shaft Spec 9673D | 1 1 1 1 2 2 2 2 8 12 |
| 2 | P24574 P20642 | Shaft Saan & Hub | 1 |
| ۷ | P20573 | Gear & Hub Spec 8239 & 9673 Gear & Hub Spec 7711 | 1 |
| 3 | P20578 | Gear & Hub Spec 7711 Gear & Hub | Ţ |
| 4 | P20591 | Piston, Clutch | 2 |
| | P26886 | Piston, Clutch Spec 9673D | 2 |
| 5 | P20592 | Retainer Plate | 2 |
| | P20599 | Belleville Spring | 8 |
| 6 7 8 | P18608 | Clutch Plate | 12 |
| 8 | P18609 | Separator Plate | 12 |
| 9 | P20605 | Retaining Ring | 2 |
| 10 | P18611 | Snap Ring | 2 |
| 11 | P25400 | Ring Seal, Incl. Back-Up Ring | 2 |
| | P26878 | Ring Seal Spec 9673D | 2 |
| 12 | P25400 | Back-Up Ring, Incl. Ring Seal-Not Used Spec 9673D | 2 |
| 13 | P20612 | 0-Ring | 2 |
| | P26876 | O-Ring Spec 9673D | 2 |
| 14 | P24451 | Bearing | 2 |
| 15 | P24450 | Roller Bearing | 2 |
| 16 | P18620 | Ring Seal | 12 2 2 2 2 2 2 2 2 2 3 3 2 2 |
| _ | P26882 | Ring Seal Spec 9673D | 3 |
| 17 | P18618 | Retaining Ring | 2 |
| 18 | P20625 | Spring Retainer | 2 |



| ITEM | PART NO. | DESCRIPTION | QTY. |
|--------|--|---|--|
| | P24519 P20626 P20628 P24578 P26891 | Clutch Assy., 2nd Stage | 573 1 1 1 1 1 |
| 1 | P20646 P24577 P26888 | Shaft Spec 7711A & 82 Shaft Spec 7711B, 823 Shaft Spec 9673D | |
| 2 | P20669 | Gear & Hub | 1 |
| 2 | P26884 | Gear & Hub Spec 9673D | 1 |
| 3 | P20573 P20642 | Gear & Hub Spec 7711 Gear & Hub Spec 8239 & 967 | 73 1 |
| Λ | P26885 | Gear & Hub Spec 9673D | 1 2 12 |
| 4 5 | P20591 P18609 | Piston, Clutch | ۷ 12 |
| 6 | P20599 | Seperator Plate | 12 |
| 7 | P20599 P20592 | Belleville Spring Retainer Plate | გ ე |
| Ω | P20602 | Clutch Plate | 10 |
| 8 9 | P20605 | Retaining Ring | 12 |
| 10 | P18611 | Snap Ring | 2 |
| 11 | P25400 | Ring Seal, Including Back-Up Ring | 4 |
| 12 | P25400 | Back-Up Ring, Including Ring Seal | 2 |
| 13 | P20612 | 0-Ring | 4 |
| 14 | P24451 | Bearing | 1 |
| 15 | P24450 | Bearing | 1 |
| 16 | P22741 | Bearing | 2 |
| 17 | P20670 | Bearing | 1 |
| 18 | P18620 | Ring Seal | 3 |
| 19 | P18614 | | ა ე |
| 20 | P18618 | Retaining Ring Retaining Ring | <u>د</u> 1 |
| 21 | P20625 | Retaining Ring | 8 2 12 2 2 2 2 1 1 2 1 3 2 1 2 |

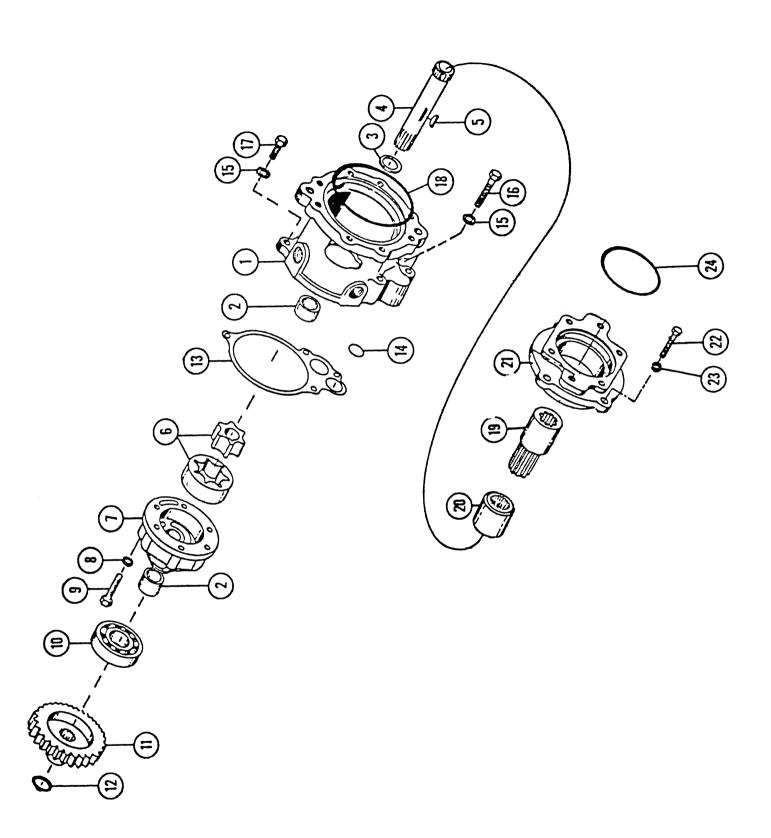


| ITEM | PART NO. | DESCRIPTION | | QTY. |
|----------------------------|----------------------------|-----------------------------------|---|---|
| | P24538 P20672 P26892 | Clutch Assy., 3rd Stage Spec | : 7711A & 8239A : 7711B, 8239B & 9673 : 9673D | 1 1 1 |
| 1 | P20673 P24576 P26889 | Shaft Spec | : 7711A & 8239A : 7711B, 8239B & 9673 : 9673D | 1 1 1 |
| 2 | P20678 | Gear & Hub | | 1 |
| 3 | P20682 | Gear, Hi Range | | 1 |
| 2 3 4 5 6 7 | P20683 | Gear & Hub | | 1 |
| 5 | P18614 | Retaining Ring | | 2 |
| 6 | P20670 | Bearing | | 1 2 2 8 |
| 7 | P20591 | Piston, Clutch | | 2 |
| 8 9 | P20592 | Retainer Plate, Clutch | | 2 |
| 9 | P20599 | Belleville Spring | | |
| 10 | P20602 | Clutch Plate | | 10 |
| 11 | P18609 | Seperator Plate | | 10 |
| 12 | P20605 | Retaining Ring | | 2 |
| 13 | P18611 | Snap Ring | | 2 |
| 14 | P25400 | Ring Seal, Including Back-Up Ring | | 2 |
| 15 | P25400 | Back-Up Ring, Including Ring Seal | | 2 |
| 16 | P20612 | O-Ring | | 2 |
| 17 | P24451 | Bearing | | 1 |
| 18 | P24450 | Bearing | | 1 |
| 19 | P18620 | Ring Seal | | 3 |
| 20 | P18618 | Retaining Ring | | 10 2 2 2 2 2 1 1 3 2 1 2 |
| 21 | P22741 | Bearing | | 1 |
| 22 | P20625 | Spring Retainer | | 2 |

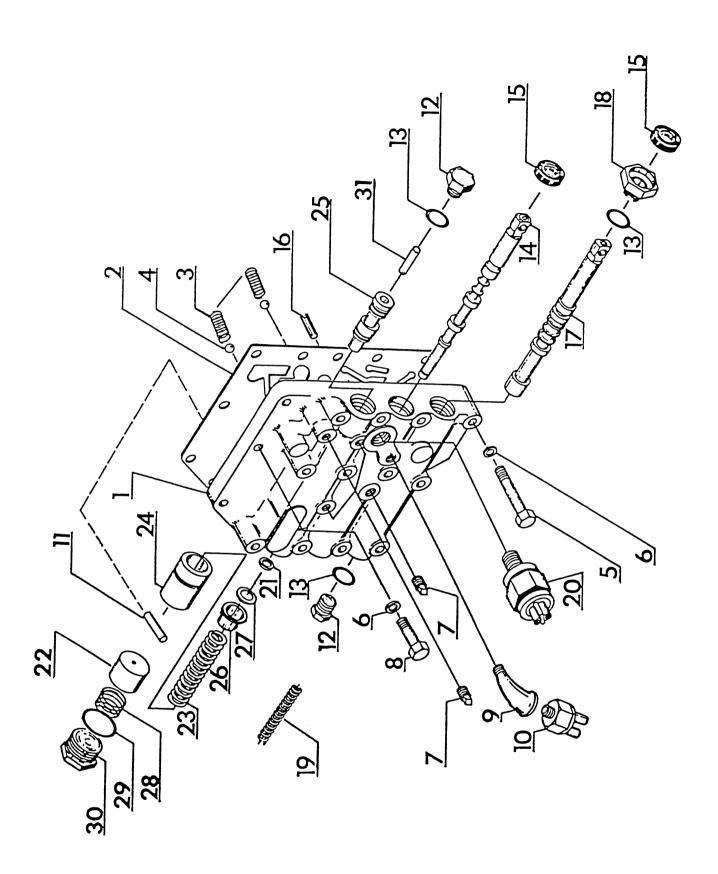


| ITEM | PART NO. | DESCRIPTION | | QTY. |
|-------------|------------------|--------------------------------------|---------------------------------------|---|
| 11 [1] | TAKI NO. | DESCRIPTION | | <u> </u> |
| | P19433 | Front Cover Assembly | Spec 6037 | 1 |
| | P24531 | Front Cover Assembly | Spec 8239A | 1 |
| | P24523 | Front Cover Assembly | Spec 8239B & 9673 | 1 1 1 |
| | P18505 | Front Cover Assembly | Spec 7201 & 5800 | |
| | P24532 | Front Cover Assembly | Spec 7711A | 1 |
| | P24524 | Front Cover Assembly | Spec 7711B | 1 |
| 1 | P18506 | Front Cover | Spec 6037, 7201 & 5800 | 1 |
| | P24521 | Front Cover | Spec 7711A & 8239A | 1 |
| | P24525 | Front Cover | Spec 7711B, 8239B & 9673 | |
| 2 | P18507 | Gear | | 1 |
| 3 | P18508 | Shaft | | 1 |
| 4 | P18509 | Bearing | | 2 |
| 5 6 7 | P18510 P18511 | Ring Retainer | | 1 |
| 7 | P18512 | Ring Retainer Input Shaft | Spec 5800, 7201, 8239, & 9673 | 1 |
| , | P19754 | Input Shaft | Spec 6037 & 7711A | i |
| | P24537 | Input Shaft | Spec 7711B | ī |
| | P26880 | Input Shaft, 24T | Spec 9673D | ī |
| 8 | P18516 | Tube | • | 1 |
| | P19443 | Tube | Spec 6037 & 7711A ONLY | 1 |
| 9 | P18517 | Cover Plate | | 1 |
| 10 | P19755 | Ring Seal | | 1 |
| 1.1 | P26883 | Ring Seal | Spec 9673D | 1 |
| 11 | P18514 P26877 | Snap Ring | Spac 0672D | 1 |
| 12 | P18518 | Snap Ring Capscrew | Spec 9673D | 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 13 | P18519 | Lockwasher | | 6 |
| 14 | P19758 | Capscrew | | ĭ |
| 15 | P19444 | Washer Thrust Pump | | ī |
| 16 | P18524 | Input Hub Gear | | 1 |
| 17 | P18525 | Gasket | Spec 6037, 7201, & 5800 | 1 |
| | P24582 | Gasket, Plastic Strip | Spec 7711, 8239, & 9673 | 1 |
| 18 | P18526 | Bearing Retainer | | 1 |
| 19 | P18529 | Capscrew | | 7 |
| 20 21 | P18530 P18531 | Lockwasher Elbow | | 7 1 |
| 22 | P18532 | Breather | | 1 |
| <u> </u> | P12034 | Breather | Spec 7711, 8239, & 9673 | ī |
| | P25444 | Breather | Spec 9673C | 1 1 |
| 23 | P18528 | Oil Seal | · | 1 |
| 24 | P18527 | Bearing | | 1 |
| 25 | P18672 | Plug | | 1 |
| 26 | P19759 | Plug | | 1 |
| 27 | P18513 | Bearing | Sno. 0672D | 1 |
| 28 | P26879 | Bearing Potainon | Spec 9673D Spec 7711A & 8239A ONLY | 1 |
| 20 | P18522 P24579 | Bearing Retainer Bearing Retainer | Spec 7/11A & 8239A UNLY | 1 |
| | P26881 | Bearing Retainer | Spec 9673D | i |
| 29 | P19760 | Regulator Valve | 0,700 | ī |
| 30 | P18520 | Capscrew | | |
| 31 | P18521 | Starwasher | | 4 4 1 |
| 32 | P19756 | 0-Ring | | |
| 33 | P19757 | Oil Passage Cover | - | 1 |
| | | | 1912 A | |

1812-A

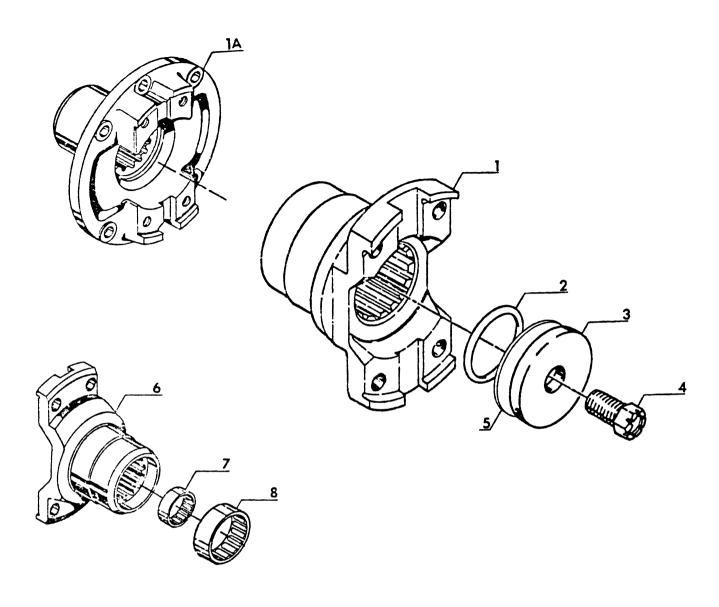


| ITEM | PART NO. | DESCRIPTION | QTY. |
|------------------|-----------------|--|------|
| | P18004 | Pump Assembly (Use P18581 For Spec 5800) | 1 |
| 1 | P18582 | Housing | 1 |
| 2 3 | P19826 | Bearing (Use P18583 For Spec 5800) | ż |
| | P185 8 4 | Thrust Washer | ī |
| 4 | P19827 | Drive Shaft (Use P18585 For Spec 5800) | i |
| 5 | P19828 | Key, Woodruff (Use P18586 For Spec 5800) | i |
| 4 5 6 7 | P18587 | Gerotor | j |
| | P18588 | Pump Retainer | i |
| 8 9 | P18702 | Starwasher, Ext. 5/16" | 6 |
| | P18589 | Capscrew | 6 |
| 10 | P18590 | Bearing | ì |
| 11 | P18591 | Gear | i |
| 12 | P18592 | Retaining Ring | i |
| 13 | P18593 | Gasket | j |
| 14 | P18594 | O-Ring | i |
| 15 | P18703 | Starwasher, 3/8" | 4 |
| 16 | P18595 | Capscrew | 3 |
| 17 | P18596 | Capscrew | ì |
| 18 | P18597 | O-Ring | j |
| 19 | P18598 | Adaptor Sleeve, "B" | i |
| 20 | P18599 | Sleeve Spacer | i |
| 21 | P18600 | Adaptoe Plate | 1 |
| 22 | P18573 | Capscrew | 4 |
| 23 | P18572 | Lockwasher | 4 |
| 24 | P18602 | O-Ring | 1 |

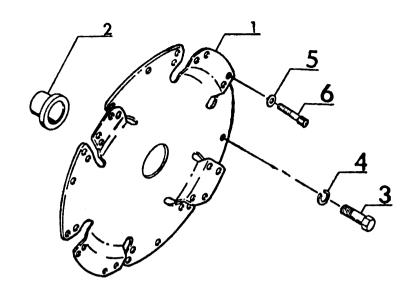


| ITEM | PART NO. | DESCRIPTION | QTY. |
|--------|------------------|--|-------------|
| | P18653 | Valve Control Assy. Spec 5800, 6037, 7201, 7711A, 8239A | 1 |
| | P24530 | Valve Control Assy. Spec 7711B, 8239B, 9673 | 1 |
| 1 | P18654 | Body, Control Valve, Spec 7711A, 8239A, 6037, 7201, 5800 | 1 |
| 2 | P24529 | Body, Control Valve, Spec 7711B,8239B,9673 | 1 |
| 2 | P18675 | Gasket, Valve Body |] |
| 3 | P18676 | Spring, Detent | 2 2 |
| 4 | P18677 | Ball Garage | |
| 5 | P22796 | Capscrew | 12 |
| 6 7 | P22799 | Flat Washer | 15 |
| 8 | P18672 | Plug, Pipe | 4 3 |
| 9 | P18518 P19825 | Capscrew 45° Elbow, Street | 3 1 |
| 10 | P19105 | Switch, Reverse Alar m - See Note | i |
| 11 | P19822 | Pin, Use P18657, Snap Ring For Spec 5800 | 1 |
| 12 | P18665 | Plug | |
| 13 | P18666 | 0-Ring | 2 |
| 14 | P19823 | Stem, Forward - Reverse | 2 3 1 |
| 15 | P18668 | Oil Seal | |
| 16 | P18669 | Roll Pin | 2 1 |
| 17 | P19824 | Stem, Spec 5800,6037 & 7201 | i |
| • • | P24522 | Stem, Spec 7711, 8239 & 9673 | i |
| 18 | P18671 | Plug | i |
| 19 | P18662 | Spring, Regulator-Spec 7711A,8239A,6037,7201&5800 ONLY | i |
| 20 | P18673 | Switch, Neutral Safety | j |
| 21 | P18674 | Spacer, Spring | A/R |
| 22 | P18658 | Valve, Pump | j |
| 23 | P18656 | Spring, Accumulator | 1 |
| 24 | P18655 | Valve Modulator, Spec 7711A,8239A,6037,7201,5800 | 1 |
| | P24527 | Valve Modulator, Spec 7711B, 8239B, 9673 | 1 |
| 25 | P18663 | Valve, Regulator, Spec 7711A, 8239A, 6037, 7201, 5800 | 1 |
| | P24528 | Valve, Regulator, Spec 7711B, 8239B, 9673 | 1 |
| 26 | P24526 | Cap, Regulator, Spec 7711B, 8239B, 9673 | 1 |
| 27 | P24599 | Washer, Spec 7711B, 8239B, 9673 | 1 |
| 28 | P18659 | Spring, Pump Valve | 1 |
| 29 | P18661 | O-Ring | 1 |
| 30 | P18660 | Plug, Pump Valve | 1 |
| 31 | P18664 | Dowel Pin | 1 |

NOTE: There is no port on valve for reverse alarm switch on transmission Spec 5800.



| ITEM | PART NO. | DESCRIPTION | | |
|---------|----------------------------|--|--------|--|
| | P18683 P20426 P25409 | Yoke Group Assembly Spec 5800, 6037 & 7201 Yoke Group Assembly Spec 7711, 8239 & 9673 | 1 | |
| 1 | | Yoke Group Assembly Spec 9673C only | | |
| 1 1A | P18684 P25410 | Yoke Flange, Front Yoke Flange, Front Spec 9673C only |]] | |
| 2 3 | P18685 P18686 | 0-Ring Washer Spec 5800, 6037 & 7201 | 1 | |
| 4 | P20427 P20428 | Washer Spec 7711, 8239 & 9673 Bolt, Special | 1 | |
| 5 6 | P19820 P20429 | Shim Package (not shown) Yoke Flange, Rear | j 1 | |
| 7 8 | P24457 P24458 | Bearing Bearing | i | |



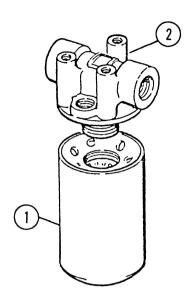
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------------------|--|--|----------------------------|
| | | Drive Plate Assembly (Incl. Item 2) | |
| 1 | P20968 P20969 | CHRYSLER ENGINES Spec 5800, 7201 & 8239 Spec 6037 & 7711 | 1 |
| | P20968 P19278 P22802 | WAUK ES HA ENGINES Spec 5800 Spec 6037 & 7711A Spec 7711B & 9673 |]]] |
| | P194 41 | DETROIT ENGINES Spec 7201, 8239 & 9673 | 1 |
| | P192 7 8 P228 0 2 | DEUTZ ENGINES Spec 7711A Spec 7711B & 9673 | 1 |
| | P20968 P226 47 | DEERE ENGINES Spec 8239 Spec 9673 | 1 |
| 2 3 4 5 | P25406 P18536 P18530 P18537 P22799 P18538(B) P19438(C) | | 1 8 8 8 8 8 |

NOTES:

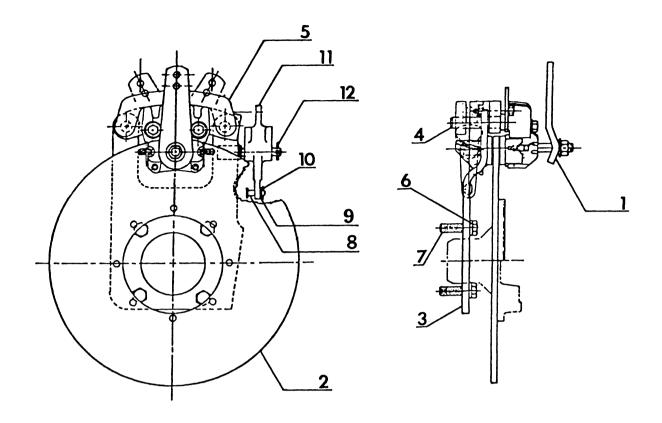
- A) Items 3 Thru 6 Are Used to Bolt Drive Plate to Converter.

 B) Used With 12 3/4" Converter.

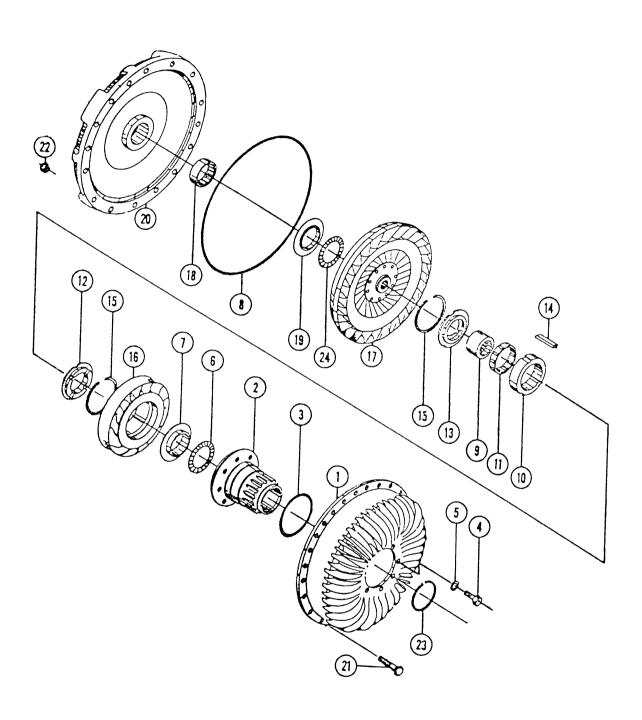
 C) Used With 11 3/4" Converter.



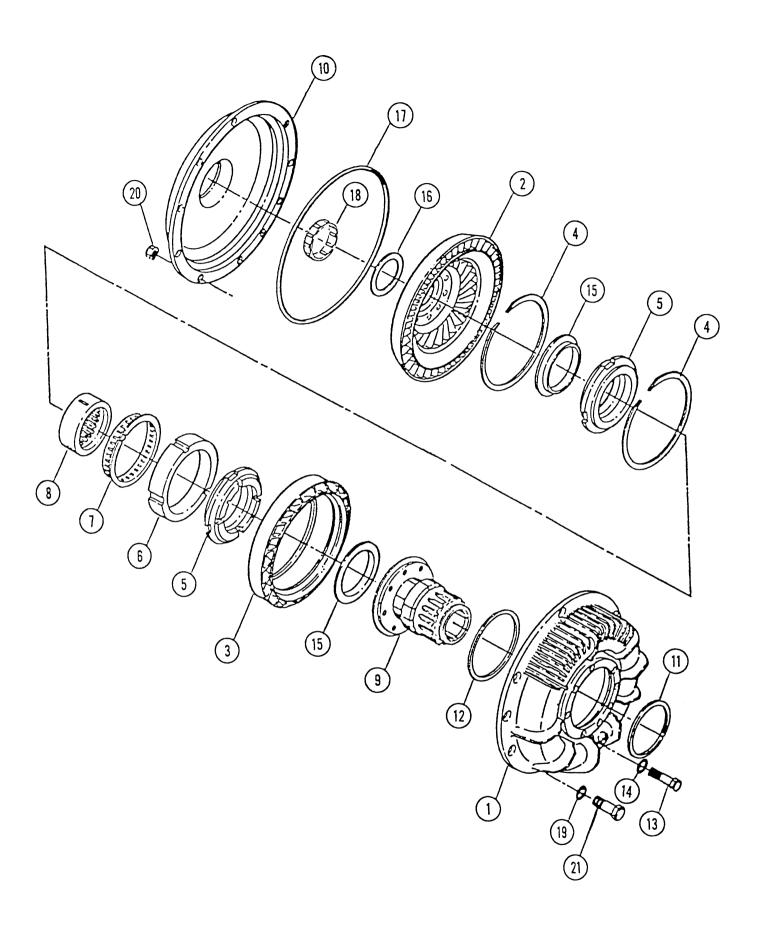
| ITEM | PART NO. | DESCRIPTION | QTY. |
|----------|------------------|-------------------------------|--------|
| | P19132 | Remote Filter & Base Assembly | 1 |
| 1. 2. | P19133 P19821 | Filter Base | 1 1 |



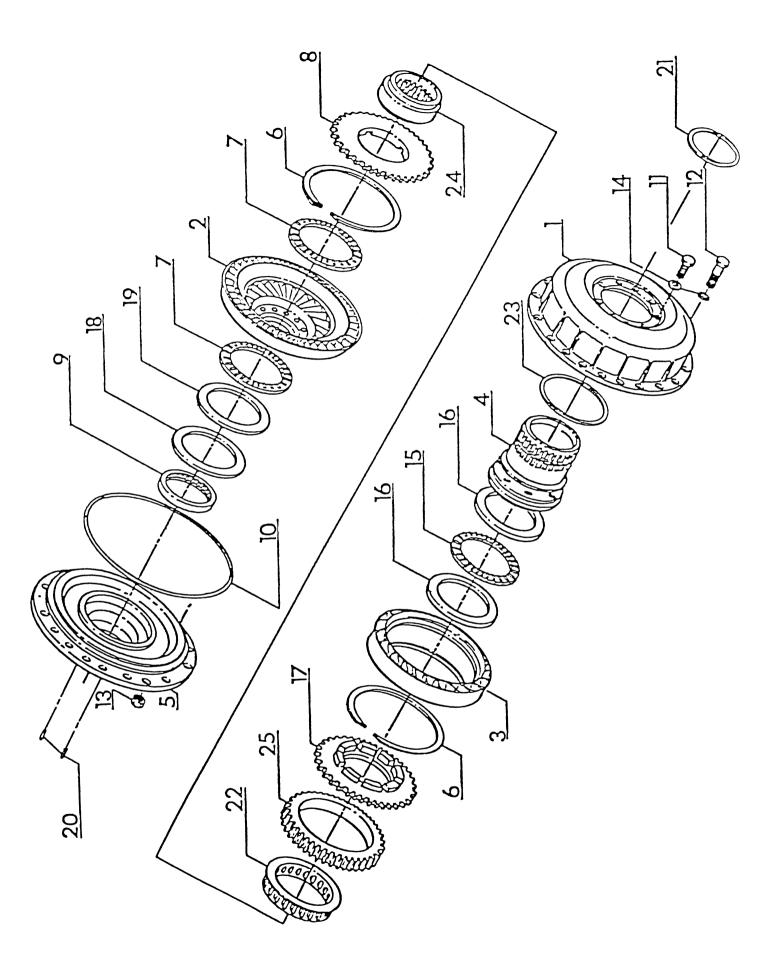
| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|----------|----------------------|------|
| 1 | P24539 | Brake Caliper W/Pads | 1 |
| 2 | P25075 | Disc. Brake | 1 |
| 3 | P25402 | Mounting Bracket | 1 |
| 4 | P25424 | Pin | 2 |
| 5 | P25403 | Retainer, Pin | 1 |
| 6 | P18572 | Lockwasher | 4 |
| 7 | P18573 | Capscrew | 4 |
| 8 | P25423 | Clevis Pin | 1 |
| 9 | P25427 | Flatwasher |] |
| 10 | P25425 | Cotter Pin | 1 |
| 11 | P25404 | Lever, Disconnect | 1 |
| 12 | P25426 | Cotter Pin | 1 |
| 13 | P24602 | Spring, Short | 2 |
| 14 | P24601 | Spring, Long | 1 |
| 15 | P26210 | Brake Pad Kit | 1 |



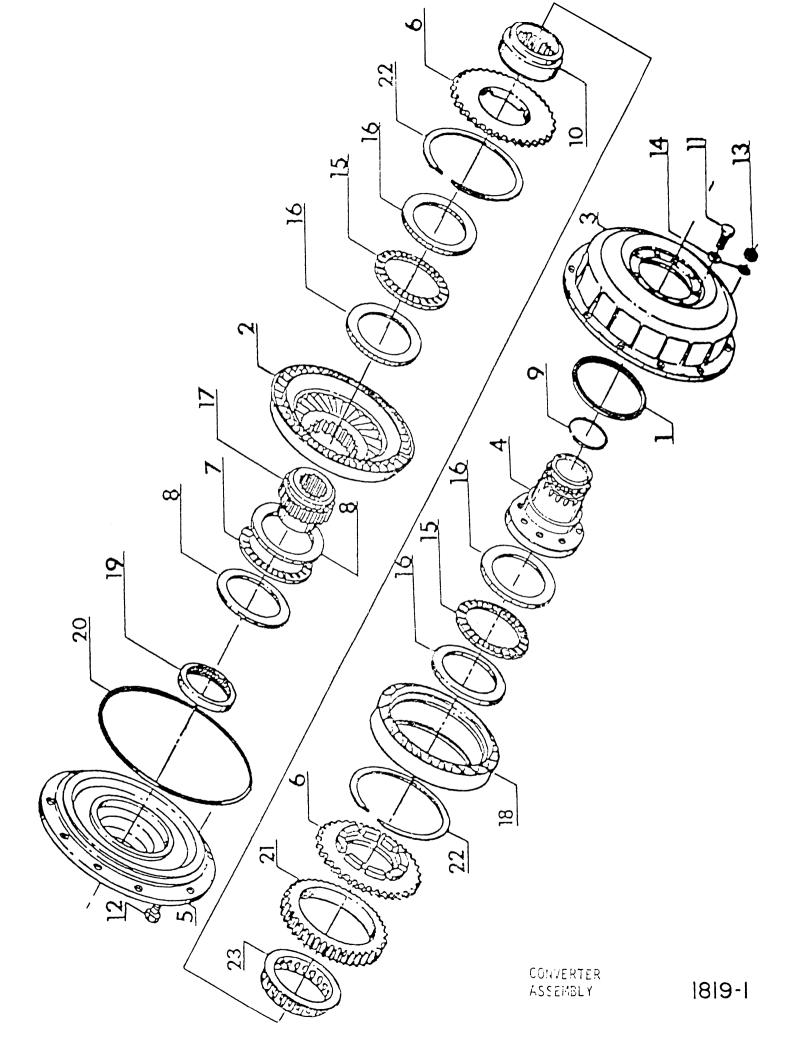
| ITEM | PART NO. | DESCRIPTION | QTY. |
|-------------|----------|--|-------------|
| | P17773 | Converter Assembly Spec 5800 | 1 |
| | P19439 | Converter Assembly Spec 7201 | 1 |
| | P20647 | Converter Assembly Spec 8239A & 8239B Spec 9673 (Detroit Only) | 1 |
| 1 | P18539 | Impeller | i |
| 2 | P18540 | Hub | j |
| _ | P20734 | Hub (Use w/P20647 Assy. Only) | 1 |
| 3 | P18541 | 0-Ring | 1 |
| 4 | P18542 | Capscrew | 12 |
| 5 | P18543 | Seal Washer | 12 |
| 5 6 7 | P18544 | Bearing | 2 |
| 7 | P18545 | Thrust Washer, Rear | 1 |
| 8 | P18546 | O-Ring Gasket | 1 |
| 9 | P18547 | Inner Race Clutch | 1 |
| 10 | P18548 | Outer Race Clutch | 1 |
| 11 | P18549 | Clutch Sprag | 1 |
| 12 | P18550 | Clutch Retainer, Rear | 1 |
| | P20736 | Clutch Retainer, Rear (Use W/P20647 Assy.Only) | 1 |
| 13 | P18551 | Clutch Retainer, Front | 1 |
| 14 | P18552 | Key, Square | 4 |
| 15 | P18553 | Snap Ring | 4 2 1 |
| 16 | P18554 | Stator | 1 |
| 17 | P19762 | Turbine | 1 |
| 18 | P18556 | Bearing | 1 |
| 19 | P18557 | Thrust Washer | [|
| 20 | P18558 | Front Cover (Use W/P17773 Assy. Only) | ļ |
| | P19761 | Front Cover | 1 |
| 21 | P18559 | Capscrew | 16 |
| 22 | P18560 | Flanged Nut | 16 |
| 23 | P18561 | Ring Seal (Use W/P17773 Assy. ONLY) | 7 |
| | P19466 | Ring Seal | 1 |
| 24 | P20742 | Bearing | 1 |
| | | | |



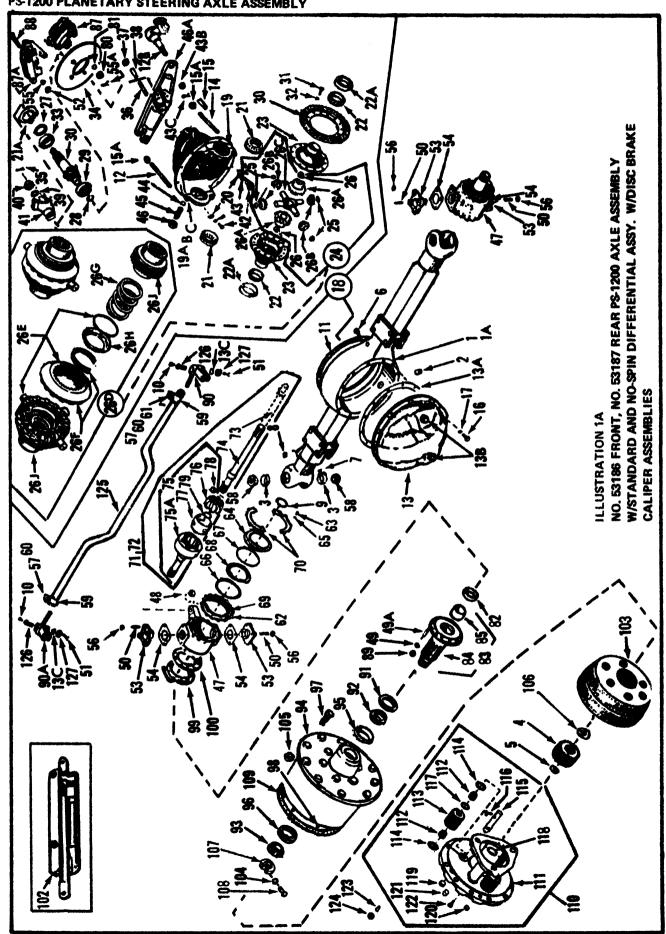
| ITEM | PART NO. | DESCRIPTION | | QTY. |
|----------------------------|----------|--------------------|-------------------|--------|
| | P19434 | Converter Assembly | Spec 6037 & 7711A | 1 |
| 1 | P19454 | Impeller | | 3 |
| 2 | P19457 | Turbine | | 1 |
| 3 | P19450 | Stator | |] |
| 4 | P19451 | Retaining Ring | | 2 |
| 2 3 4 5 6 7 | P19449 | Retainer, Stator | | 2 |
| 6 | P19446 | Outer Race | | 1 |
| | P19447 | Clutch Sprag | | 1 |
| 8 | P19448 | Inner Race | | 1 |
| 8 9 | P19452 | Hub, Impeller | | 1 |
| 10 | P19459 | Converter Cover | | 1 |
| 11 | P19466 | Seal Ring | | 1 |
| 12 | P19453 | Seal Ring | | 1 |
| 13 | P19455 | Capscrew | | 8 8 |
| 14 | P19456 | Lockwasher | | 8 |
| 15 | P19458 | Thrust Washer | | 2 |
| 16 | P20649 | Thrust Washer | | 1 |
| 17 | P19460 | O-Ring | | 1 |
| 18 | P19467 | Bearing | | 1 |
| 19 | P19464 | Washer | | 10 |
| 20 | P19462 | Lock Nut | | 10 |
| 21 | P19461 | Capscrew | | 10 |



| ITEM | PART NO. | DESCRIPTION | | QTY. |
|----------------------------|----------|-------------------|-------------------|--------|
| | P22803 | Conveter Assembly | Spec 7711B & 9673 | 1 |
| 1 | P24506 | Impeller | | 1 |
| 2 | P24508 | Turbine | | 1 |
| 3 | P22727 | Stator | | 1 |
| 4 | P24507 | Impeller Hub | | 1 |
| 5 | P22731 | Cover | | 1 |
| 6 | P22774 | Retaining Ring | | 2 |
| 2 3 4 5 6 7 | P22756 | Thrust Bearing | | 2 2 |
| | P22729 | Retainer | | 1 |
| 8 9 | P22750 | Bearing | | 1 |
| 10 | P22730 | Sea1 Sea1 | | 1 |
| 11 | P22789 | Capscrew | | 8 |
| 12 | P22790 | Capscrew | | 12 |
| 13 | F18560 | Nut, Hex | | 12 |
| 14 | P22799 | Flatwasher | | 20 |
| 15 | P18544 | Thrust Bearing | | 1 |
| 16 | P22758 | Thrust Race | | 2 |
| 17 | P22733 | Retainer | | 7 |
| 18 | P22759 | Thrust Race | | 7 |
| 19 | P22760 | Thrust Race | | 7 |
| 20 | P24470 | Roll Pin | | 2 |
| 21 | P19466 | Ring Seal | | 1 |
| 22 | P18549 | Clutch Sprag | | 7 |
| 23 | P22762 | O-Ring | | 7 |
| 24 | P24509 | Race, Inner | | 7 |
| 25 | P22728 | Race, Outer | | 1 |



| ITEM | PART NO. | DESCRIPTION | | |
|----------------------------------|--|--|---|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | PART NO. P22803 P22762 P25414 P25433 P25434 P22731 P25416 P22756 P22760 P18561 P24509 P22789 P18518 P25430 P22648 | Complete Converter Assembly Spec 9673C O-Ring Turbine Impeller Hub, Impeller Cover Clutch Retainer Thrust Bearing Thrust Race Ring Seal Inner Race Capscrew Capscrew Nut, Hx. Flatwasher | QIY. 1 1 1 1 1 2 1 2 1 1 8 12 12 20 | |
| 15 16 17 18 19 20 | P25431 P25417 P25435 P25418 P22750 P22730 | Thrust Bearing Thrust Washer Hub, Turbine Stator Bearing Seal | 2 4 1 1 1 | |
| 21 22 23 | P25 41 3 P25408 P18549 | Outer Race Retaining Ring Clutch Sprag | 1 2 1 | |



NO. 53187 PS-1200 PLANETARY STEERING AXLE ASSY. W/STAN DARD DIFFERENTIAL ASSEMBLY

| ITEM | DESCRIPTION | | TITY | PART NO. |
|---------------|--|----|------|----------|
| | | Α | В | |
| | COMPLETE PS-1200 PLANETARY STEERING AXLE ASSEMBLY (Front) | | | |
| | W/NO-SPIN DIFFERENTIAL ASSEMBLY, W/HEAVY DUTY 220 | | | |
| | BALL ENDS | 1 | | P-18068 |
| | | | | |
| | COMPLETE PS-1200 PLANETARY STEERING AXLE ASSEMBLY (Rear) | | | |
| | W/STANDARD DIFFERENTIAL ASSEMBLY, W/HEAVY DUTY 220 | | | |
| | BALL ENDS | | 1 | P-18069 |
| | | | | |
| 1 | Axle Housing Weldment (Front) | 1 | | P-19296 |
| 1A | Axle Housing Weldment (Rear) | | 1 | P-19297 |
| 2 | Plug — Magnetic Drain 1/2"-14 | 1 | 1 | P-13780 |
| 3 | Cup — Bearing | 4 | 4 | P-19298 |
| 4 | Gear — Sun | 2 | 2 | P-13782 |
| 5 | Ring — Retaining | 2 | 2 | P-13783 |
| 6 | Vent – Axle Air | 1 | 1 | P-13784 |
| 7 | Plug — Ball End Grease, 3/8" NPT | 2 | 2 | P-13785 |
| 8 | Fitting — Lubrication, 1/8" NPT Straight | 2 | 2 | P-13786 |
| 9 | Seal Oil, Axle Shaft | 2 | 2 | P-13787 |
| 10 | Fitting — Grease, 1/4"-28 (Tie Rod) | 2 | 2 | P-13788 |
| **11 | Gasket — Differential Carrier | 1 | 1 | P-13789 |
| 12 | Stud – Carrier Mounting, 7/16"-14 X 7/16"-20 X 1.88" | 6 | 6 | P-17535 |
| 13 | Cover — Differential Assembly | 1 | 1 | P-13791 |
| **13 <i>A</i> | Gasket — Differential Cover | 1 | 1 | P-19299 |
| 13B | Plug — Square Socket, 3/4"-14 (Steel) | 2 | 2 | P-19300 |
| 13C | Washer — Flat, 5/8" | 2 | 2 | P-19306 |
| 14 | Stud - Carrier Mounting, 7/16"-14 X 7/16"-20 X 2.25" | 4 | 4 | P-13795 |
| 15 | Dowel — Tapered, Carrier Mounting | 4 | 4 | P-19307 |
| 15A | Locknut — Carrier Mounting, 7/16"-14 (Grade 8) | 10 | 10 | P-17537 |
| 16 | Bolt — Differential Cover Mounting, 7/16"-20 X 1.00", Hex, (Grade 5PH) | 10 | 10 | P-19308 |
| 17 | Lockwasher — Differential Cover Mounting Bolt, 7/16", P, Regular | | | |
| | Spring | 10 | 10 | P-13797 |
| 18 | Complete Carrier Assembly (6.17:1 Ratio) — Consists of Indented Items | | | |
| | | | | |

NO. 53187 PS-1200 PLANETARY STEERING AXLE ASSY. W/STANDARD DIFFERENTIAL ASSEMBLY

| | DIFFERENTIAL ASSEMBLY | | | |
|------|---|----------|---|----------|
| | DECORIDEION | QUANTI | | DADTAIO |
| ITEM | DESCRIPTION | Α | В | PART NO. |
| | 19 thru 23, 26D thru 46A | 1 | | P-19342 |
| 18 | Complete Carrier Assembly (6.17:1 Ratio) — Consists of Indented Items | | | |
| | 19 thru 26C, 27 thru 46A | | 1 | P-19343 |
| 19 | Carrier Housing & Cap Assembly | 1 | 1 | P-13799 |
| 19A | Bolt — Hex, 5/8" - 11 X 3.25" (Grade 8PH) | 4 | 4 | P-19309 |
| 19B | Dowel | 4 | 4 | P-13803 |
| 19C | Lockwasher, 5/8", P, Regular Spring | 4 | 4 | P-13804 |
| 20 | Lock — Differential Bearing Adjusting Nut | 2 | 2 | P-13805 |
| 21 | Locknut — Differential Side Bearing | 2 | 2 | P-13806 |
| 21A | Gasket | 1 | 1 | P-13794 |
| 22 | Cone — Differential Side | 2 | 2 | P-17185 |
| 22A | Cup — Differential Side | 2 | 2 | P-17186 |
| 23 | Differential Case & Cover Assembly | 1 | 1 | P-13808 |
| 24 | Complete Differential Assembly — Standard, Consists of Indented | | | |
| | Items 25 thru 26C | | 1 | P-17142 |
| 25 | Washer — Thrust | | 4 | P-17144 |
| 26 | Washer — Thrust | | 2 | P-17145 |
| 26A | Gear — Side | | 2 | P-19310 |
| 26B | Gear — Pinion | | 4 | P-19311 |
| 26C | Spider | | 1 | P-19312 |
| 26D | Complete No-Spin Differential Assembly — Consists of Indented Items | | | |
| | 26E thru 26J | 1 | | P-19344 |
| 26E | Spider Assembly — Consists of Spider, Center Cam, Snap Ring | | | |
| | which are not serviced separately | 1 | | P-19345 |
| 26F | Clutch & Holdout Ring Assembly — Consists of Clutch Member | | | |
| | & Holdout Ring which are not serviced separately | 2 | | P-19346 |
| 26G | Spring | 2 | | P-19347 |
| 26H | Spring Retainer | 2 | | P-19348 |
| 26J | Side Gear | 2 | | P-19349 |
| 27 | Seal Oil | 1 | 1 | P-13841 |
| 28 | Ring — Lock | 1 | 1 | P-13811 |
| | | | | |
| | | | | |
| | | <u> </u> | | |

NO. 53187 PS 1200 PLANETARY STEERING AXLE ASSEMBLY W/STANDARD DIFFERENTIAL ASSEMBLY NO. 53186 PS 1200 PLANETARY STEERING AXLE ASSY. W/NO-SPIN DIFFERENTIAL ASSEMBLY

| | TEM DESCRIPTION | | ITITY | |
|------|---|----|-------|----------|
| ITEM | | | В | PART NO. |
| 29 | Bearing — Roller, Pinion Shaft (Rear) | 1 | 1 | P-13812 |
| 30 | Ring Gear & Pinion Assembly (6.17:1 Ratio) | 1 | 1 | P-13813 |
| 31 | Bolt — Hex, Differential Ring Gear, 1/2" - 20 X 2.00" (Grade 7) | 12 | 12 | P-13814 |
| 32 | Lockwasher — Ring Gear Bolt, 1/2", P, Heavy Spring | 12 | 12 | P-13815 |
| 33 | Bearing — Ball, Pinion Shaft (Front) | 1 | 1 | P-13816 |
| 34 | Disc — Brake | 1 | 1 | P-19350 |
| 35 | Cotter Pin — Pinion Nut, 1/8" X 1.75" | 1 | 1 | P-13818 |
| 36 | Stud — Steering Cylinder & Caliper Mounting Bracket, 5/8"-11 & 5/8" | | | |
| | 18 X 2.53" | 6 | 6 | P-19351 |
| 37 | Nut – Hex, 5/8" - 18 (Grade 2Z) | 6 | 6 | P-13820 |
| 38 | Dowel – Tapered | 6 | 6 | P-13821 |
| 39 | Washer | 1 | 1 | P-13822 |
| 40 | Nut — Pinion, 1 1/8"-18, Hex | 1 | 1 | P-13823 |
| 41 | Yoke – Brake | 1 | 1 | P-19352 |
| 42 | Bolt — Bearing Adjusting Nut Lock, 5/16"- 18 X 0.62" (Grade 5PH) | 2 | 2 | P-19313 |
| 43 | Lockwasher, Lock Bolt, 5/16", P, Regular Spring | 2 | 2 | P-13826 |
| | | | | |
| 43B | Locknut, 1/2" - 20 (Grade 8) | 4 | 4 | P-13842 |
| 43C | Cotter Pin, 1/8" X 1.25", P | 4 | 4 | P-13835 |
| 44 | Pad - Thrust | 1 | 1 | P-13827 |
| 45 | Screw — Thrust Pad | 1 | 1 | P-13828 |
| 46 | Nut Thrust Pad Screw, 7/8"-14 Jam | 1 | 1 | P-13829 |
| 46A | Stud & Caliper Mounting Assembly (Front) | 1 | 1 | P-19353 |
| 47 | Housing - Steering Knuckle (LH & RH) | 2 | 2 | P-19314 |
| 48 | Bushing — Housing, Steering Knuckle (LH & RH) | 2 | 2 | P-19315 |
| 49 | Washer — Clipped, 7/16" | 24 | 24 | P-19355 |
| 49A | Stud — Spindle to Knuckle, 7/16"-14 & 7/16"-20 X 2.00" | 24 | 24 | P-13833 |
| | | | | |
| 50 | Stud - Trunnion to Knuckle, 1/2"-13 & 1/2"-20 X 2.00" | 16 | 16 | P-13834 |
| 51 | Cotter Pin, 1/8" X 1.25" Long (Tie Rod Bolt) | 2 | 2 | P-13835 |
| 52 | Locknut, 1/2"-13 (Grade 8) | 2 | | P-19356 |
| 53 | Trunnion | 4 | 4 | P-19317 |
| | | | | |

NO. 53187 PS-1200 PLANETARY STEERING AXLE ASSY. W/STANDARD DIFFERENTIAL ASSEMBLY

NO. 53186 PS-1200 PLANETARY STEERING AXLE ASSY. W/NO-SPIN DIFFERENTIAL ASSEMBLY

| | DIFFERENTIAL ASSEMBLY | | | |
|------|---|----------|----|----------|
| ITEM | DESCRIPTION | QUANTITY | | DADTNO |
| | | Α | В | PART NO. |
| 54 | Shim Knuckle Bearing (.005" Thick) | AR | AR | P-13839 |
| 54 | Shim — Knuckle Bearing (.010" Thick) | AR | AR | P-13840 |
| 55 | Washer Flat | 2 | | P-19357 |
| 55A | Cotter Pin, 1/8" X 1.50" P | 2 | 2 | P-19358 |
| 56 | Locknut, 1/2"-20 (Grade 8) | 16 | 16 | P-13842 |
| 57 | Lockwasher, 5/8", P. Regular Spring (Tie Rod Clamp Bolt) | 2 | 2 | P-13843 |
| 58 | Cone Bearing | 4 | 4 | P-19318 |
| 59 | Clamp – Tie Rod | 2 | 2 | P-13845 |
| 60 | Bolt — Hex Head, 5/8"-11 X 2.25" Long (Grade 5PH), (Tie Rod Clamp | | | |
| | Mounting) | 2 | 2 | P-19319 |
| 61 | Nut - Hex, 5/8"-11 (Grade 2P) (Tie Rod Clamp Bolt) | 2 | 2 | P-13847 |
| 62 | Gasket – Knuckle | 2 | 2 | P-13848 |
| 63 | Bolt - Retainer, 5/16"-18 X 0.62" (Grade 2PH) | 24 | 24 | P-19321 |
| 64 | Ring — Split Retainer | 2 | 2 | P-19322 |
| 65 | Lockwasher — Retainer, 5/16", Z, Heavy Spring | 26 | 26 | P-13851 |
| 66 | Seal — Felt, Steering Ball | 2 | 2 | P-19323 |
| 67 | Spring — Ball Seal | 2 | 2 | P-19324 |
| 68 | Seal — Oil, Ball End | 2 | 2 | P-19325 |
| 69 | Flange | 2 | 2 | P-19326 |
| 70 | Ring — Retainer Half | 4 | 4 | P-19327 |
| 71 | Complete Shaft & U-Joint Assembly (LH) — Consists of Indented Items | | | |
| | 73 & 75 | 1 | 1 | P-13858 |
| 72 | Complete Shaft & U-Joint Assembly (RH) — Consists of Indented Items | | | |
| | 74 & 75 | 1 | 1 | P-13859 |
| 73 | Shaft — Long (37.06") | 1 | 1 | P-13860 |
| 74 | Shaft — Short (30.68") | 1 | 1 | P-13861 |
| 75 | Complete U-Joint Assembly — Consists of Indented Items 75A thru 79 | 1 | 1 | P-13857 |
| 75A | Bell Outer Race | 1 | 1 | P_13862 |
| 76 | Race — Inner | 1 | 1 | P-13863 |
| 77 | Cage, U-Joint | 1 | 1 | P-13864 |
| 78 | Ball, U-Joint | 6 | 6 | P-13865 |
| 79 | Ring — Snap | 1 | 1 | P-13866 |
| | | | | |

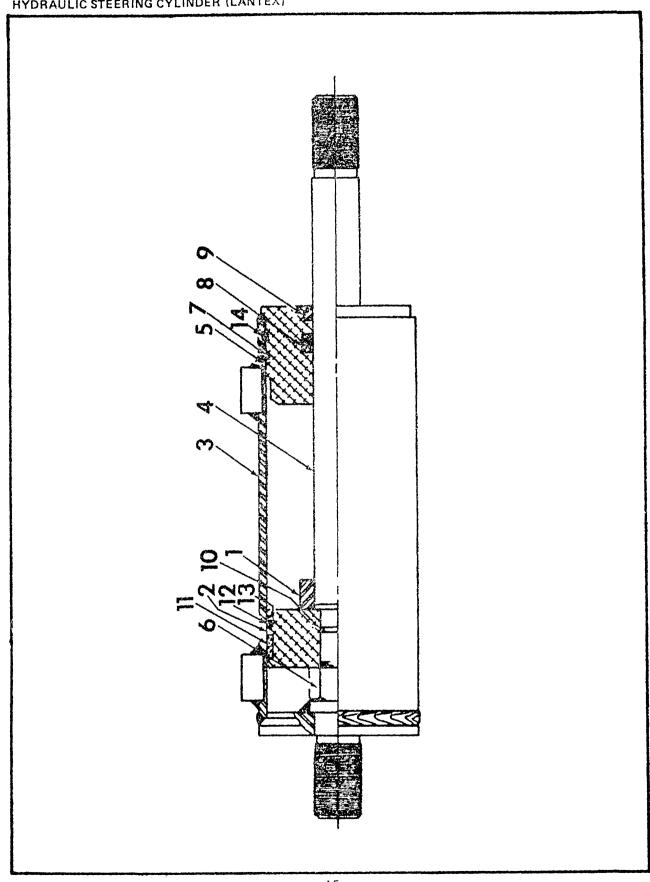
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NO. 53187 PS-1200 PLANETARY STEERING AXLE ASSY. W/STANDARD DIFFERENTIAL ASSEMBLY

| · | DIFFERENTIAL ASSEMBLY | | | |
|------|--|----------|----|----------|
| ITEM | DESCRIPTION | QUANTITY | | PART NO. |
| | | Α | В | PARTINO. |
| 80 | Nut-Heavy, Hex, Slotted, 5/8"-11 (Grade 2P) | 2 | 2 | P-19359 |
| 81 | Washer, 21/32" X 3/8" X 3/16" | 2 | 2 | P-19360 |
| 82 | Seal - Oil | 2 | 2 | P~13869 |
| 83 | Complete Spindle Assembly (LH & RH) Consists of indented items 84,85 | 2 | 2 | P-13870 |
| 84 | Spindle Only | 2 | 2 | P-13871 |
| 85 | Bushing — Spindle (LH & RH) | 2 | 2 | P-13872 |
| 87 | Complete Caliper Assy. — See pages 35A, 36A | 1 | 1 | P-19145 |
| 87.4 | Complete Caliper Assy. — (Mechanical)—See pages 41A, 42A | 1 | | P-19146 |
| 88 | Bolt | 2 | | P-19361 |
| 89 | Locknut — Spindle to Flange, 7/16"-20 (Grade 8) | 24 | 24 | P-13876 |
| 90 | Clevis (LH) — Tie Rod End | 1 | 1 | P-13877 |
| 90A | Clevis (RH) — Tie Rod End | 1 | 1 | P-13878 |
| 91 | Seal Oil | 2 | 2 | P-13879 |
| 92 | Cone — Bearing (Inner) | 2 | 2 | P-13880 |
| 93 | Cone Bearing (Outer) | 2 | 2 | P-13881 |
| | Complete Hub Assembly (LH & RH) Consists of indented items 94-98 | 2 | 2 | P-19362 |
| 94 | Hub Only | 2 | 2 | P-13883 |
| 95 | Cup — Bearing (Inner) | 2 | 2 | P-13886 |
| 96 | Cup — Bearing (Outer) | 2 | 2 | P-13887 |
| 97 | Stud - Wheel | 20 | 20 | P-13888 |
| 98 | Stud-Hub to Drive Flange,7/16"-14X7/16"-20X1.75" | 24 | 24 | P-13889 |
| 99 | Oil Deflector | 2 | 2 | P-19363 |
| 100 | Spacer | 2 | 2 | P-19364 |
| 102 | Hydraulic Strg. Cylinder (Cross) 4-5/8" Stroke, 17 7/16" Collasped | | | |
| | Length — See pages 37A, 38A —#53003 thru S/N 003165 | 2 | 2 | P 19389 |
| 102 | Hydraulic Strg. Cylinder (Lantex) 4-5/8" Storke, 17-7/16" Collasped | | | |
| | Length See pages 39A, 40A, #507068 S/N 003166 & up. | 2 | 2 | P-19383 |
| 103 | Ring Geer | 2 | 2 | P-19330 |
| 104 | Lockwasher, 5/16" Heavy Spring | 2 | 2 | P-13804 |
| 105 | Nut - Wheel, 3/4"-16 | 20 | 20 | P-13894 |
| 106 | Spacer — Ring | 2 | 2 | P-13895 |
| 107 | Locknut — Bearing, 2 3/4" - 16 | 2 | 2 | P-13896 |
| 108 | Bolt hex, 5/16"-24 X 2.26" (Grade 5PH) | 2 | 2 | P-19331 |

NO. 53187 PS 1200 PLANETARY STEERING AXLE ASSY. W/STANDARD DIFFERENTIAL ASSEMBLY

| _ | DIFFERENTIAL ASSEMBLY | | | |
|-------|---|----------|-----|----------|
| ITEM | DESCRIPTION | QUANTITY | | PART NO. |
| | DESCRIPTION | | В | FART NO. |
| **109 | Gasket – Drive Flange | | 2 | P-13898 |
| 110 | Complete Drive Flange & Planetary Gear Assembly —Consists of Indented | | | |
| | Items 111 thru 122 | 2 | 2 | P-19332 |
| 111 | Drive Flange Only | 2 | 2 | P-19333 |
| 112 | Needle Bearing (50 Quantity Per Gear) | 300 | 300 | P-13901 |
| 113 | Planet Gear | 6 | 6 | P-13902 |
| 114 | Washer - Spacer | 12 | 12 | P-13903 |
| 115 | Pin Planet Gear | 6 | 6 | P-19334 |
| 116 | Pin — Spring, 3/16" X 1.50" | 6 | 6 | P-19335 |
| 117 | Spacer Planet Gear | 6 | 6 | P-13906 |
| 118 | Washer-Thrust | 2 | 2 | P-19336 |
| 119 | Plug — Square Socket Pipe, 1/2"-14C | 2 | 2 | P-19337 |
| 120 | Plug — Pipe, 1/8" NPT | 2 | 2 | P-13867 |
| 121 | Plug Magnetic Drain, 1/2"-14 | | 2 | P-13780 |
| 122 | Fitting — Relief | 2 | 2 | P-13868 |
| *122A | Name Plate (Lull) — Drive Flange & Planetary Gear Assembly | 2 | 2 | P-19338 |
| *1229 | Screw — Machine (Name Plate Mounting) , #10 - 32 X 0.31" C | 4 | 4 | P-19339 |
| 123 | Dowel Tapered | 24 | 24 | P-13910 |
| 124 | Locknut, 7/16" - 20 (Grade 8) | 24 | 24 | P-13911 |
| 125 | Tie Rod | 1 | 1 | P-13912 |
| 126 | Stud - Special | 2 | 2 | P-19339 |
| 127 | Nut - Slotted Head, 5/8"-11 (Grade 2P) (Tie Rod) | 2 | 2 | P-13914 |
| 128 | Socket Assembly | 4 | 4 | P-13915 |
| * | Name Plate (Axle Housing) | 1 | 1 | P-19340 |
| • | Drive Screws (Axle Nameplate Mounting), # 2 X 1/4" | 4 | 4 | P-13917 |
| • | Bearing Set (Consists of Items 22, 22A, 29, 33) | | 1 | P-13919 |
| * | NOT ILLUSTRATED ITEMS | | | |
| ** | Customer may substitute silicone adhesive/sealant equal or equivalent | | | |
| | to RTV-782 Dow Corning in place of gasket | | | |
| * | Label — Gear Lube | | 3 | P-19314 |
| * | Fitting (No. 507081 Disc Brake Caliper Assembly) | 2 | 2 | |
| * | Bleed Screw (No. 507081 Disc Brake Caliper Assembly) | 2 | 2 | |
| LH | - Left Hand RH - Right Hand AR -As Required Assy - Assembly | | | |

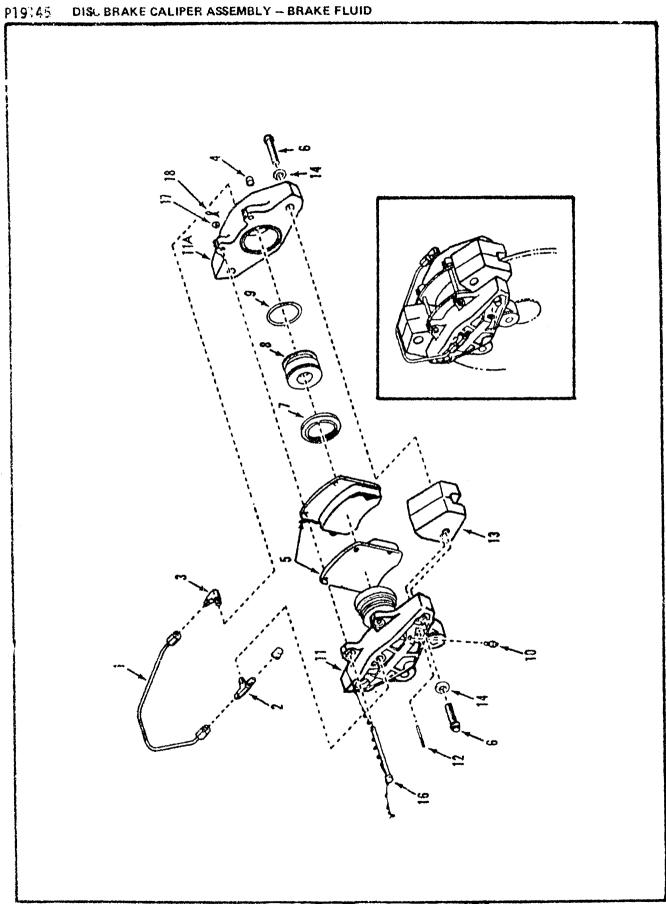


P19366 HYDRUALIC CYLINDER ASSEMBLY (LANTEX)

P19383 HYDRAULIC CYLINDER ASSEMBLY (LANTEX)

| | | | <u> </u> | |
|------|--|------|----------|-----------------|
| ITEM | DESCRIPTION | QUAN | TITY | PART NO. |
| | | Α | В | |
| | COMPLETE HYDRAULIC CYLINDER ASSEMBLY — (LANTEX) 4-5/8" Stroke. 17-7/16" Collapped Length | 1 | | P-19383 |
| | 4-5/8" Stroke, 19-7/8" Collesped Length | | 1 | P-19366 |
| | | | | |
| 1 | Spacer | 1 | 1 | P-19367 |
| 2 | Piston | 1 | 1 | P-19368 |
| 3 | Barrel Assembly | 1 | 1 | P-19369 |
| 4 | Rod 19-7/8" / 17-7/16" | 1 | 1 | P-19370/P-19371 |
| 5 | Gland | 1 | 1 | P-19372 |
| 6 | Locknut, Self-Locking | 1 | 1 | P-19373 |
| 7** | Gland Static Seal | 1 | 1 | P-19374 |
| 8** | Rod Seal | 1 | 1 | P-19375 |
| 9** | Rod Wiper | 1 | 1 | P-19376 |
| 10** | Rod Static Seal | 1 | 1 | P-19377 |
| 11** | Wear Ring | 1 | 1 | P-19378 |
| 12** | Piston Seal | 1 | 1 | P-19379 |
| 13** | O-Ring | 1 | 1 | P-19380 |
| 14** | Lockwire | 1 | 1 | P-19381 |
| | Seal Kit Assembly — Cons. is of Items 7 thru 14 | 1 | 1 | P-19382 |
| • | NOT ILLUSTRATED ITEMS | | | |
| •• | Items Included in Seal Kit Assembly | | | |
| | | | | |
| | | | | |
| | | | | |
| | NOTE: Quanity indicated is for (1) Pydraulic | | | |
| | Cylinder Assembly Only | | | |
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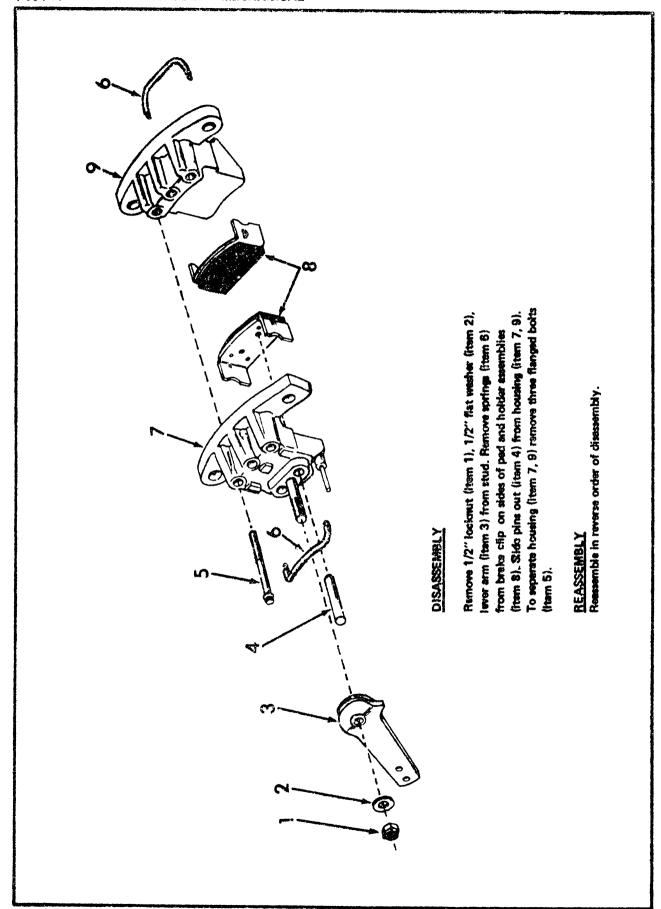
1787-A



P19145 BRAKE CALIPER ASSEMBLY

| | ASSEMBLY | | | | | |
|----------|--|----------|---|---|----------|----------|
| ITCAA | DESCRIPTION | QUANTITY | | | | |
| ITEM | | Α | В | С | Q | PART NO. |
| | COMPLETE BRAKE CALIPER ASSEMBLY (RED TAG | | | | | |
| | BRAKE FLUID) NOTE: QUANTITY INDICATED IS | | | | | |
| | FOR ONE COMPLETE BRAKE CALIPER ASSEMBLY | | | | | |
| | (LH) OR (RH) | 1 | | | | P-19145 |
| | | | | | | |
| 1 | Transfer Line Assembly | 1 | | | | P-19166 |
| 2 | Tee-Male Branch | 1 | | | | P-19168 |
| 3 | Elbow - Male | 1 | | | | P-19167 |
| 4 | Reducer | 2 | | | | P-19179 |
| 5 | Pad & Holder Assembly | 2 | | | | P-19159 |
| 6 | Screw, 12 PT., 7/16" - 14 X 1.50" | 4 | | | | P-19181 |
| 7 | Dust Boot | 2 | | | | P-19162 |
| 8 | Piston | 2 | | | | P-19163 |
| 9 | O-Ring | 2 | | | | P-19164 |
| 10 | Bleeder Valve | 4 | | | | P-19161 |
| 11 | Housing Piston with Ears | 1 | | | | P-19158 |
| 11A | Housing Piston without Ears | 1 | | | | P-19157 |
| 12 | Pin - Drive Lock | 2 | | | | P-19180 |
| 13 | Spacer | 2 | | | | P-19160 |
| 14 | Washer, Flat, Screw Backup | 4 | | | | P-19182 |
| * 15 | Bleeder Valve | 2 | | | | P-19178 |
| 16 | Pin Pad Retainer | 2 | | | | P-19176 |
| 17 | Washer Flat | 2 | | | | P-19165 |
| 18 | Pin Cotter | 2 | | | | P-19177 |
| | | | | | | |
| * | Label Brake Fluid, Red Tag | 1 | | | | |
| <u> </u> | NOT ILLUSTRATED ITEMS | | | | | |
| LH | Left Hand | | | | | |
| RH | Right Hand | | 1 | | | |
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1783 48



P19146 CALIPER ASSEMBLY - MECHANICAL

| | - MECHANICAL | | | |
|------|--|----------|---|----------|
| ITEM | DESCRIPTION | QUANTITY | | PART NO. |
| | | Α | В | FANT NU. |
| | COMPLETE CALIPER ASSEMBLY - MECHANICAL | 1 | | P-19146 |
| | | | | |
| | NOTE: Quantity indicated is for one (1) complete caliper assembly only | | | |
| | | | | |
| 1 | Locknut, 1/2" | 1 | | P-19153 |
| 2 | Washer, Flat, 1/2" | 1 | | P-19152 |
| 3 | Lever | 1 | | P-19151 |
| 4 | Pin | 2 | | P-19154 |
| 5 | Bolt — Flanged, 3/8" | 3 | | P-19156 |
| 6 | Spring | 2 | | P-19155 |
| 7 | Housing with Stud | 1 | | P-19149 |
| 8 | Pad and Holder Assembly | 1 | | P-19150 |
| 9 | Housing | 1 | | P-19148 |
| | | | | |
| * | NOT ILLUSTRATED ITEMS | | | |
| LH | Left Hend | <u> </u> | | |
| RH | Right Hand | ↓ | | |
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1789-A

The parts information in this publication is based on data available at the time it was printed. Because of continual improvement and advancing product design, your vehicle may not be identical to the parts information shown. Whenever there is a question, obtain the latest parts information available from your local dealer. JLG Industries, Inc. continually updates these publications electronically within our *OnLine Services*.



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| Model No. | |
|------------|--|
| Serial No. | |



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