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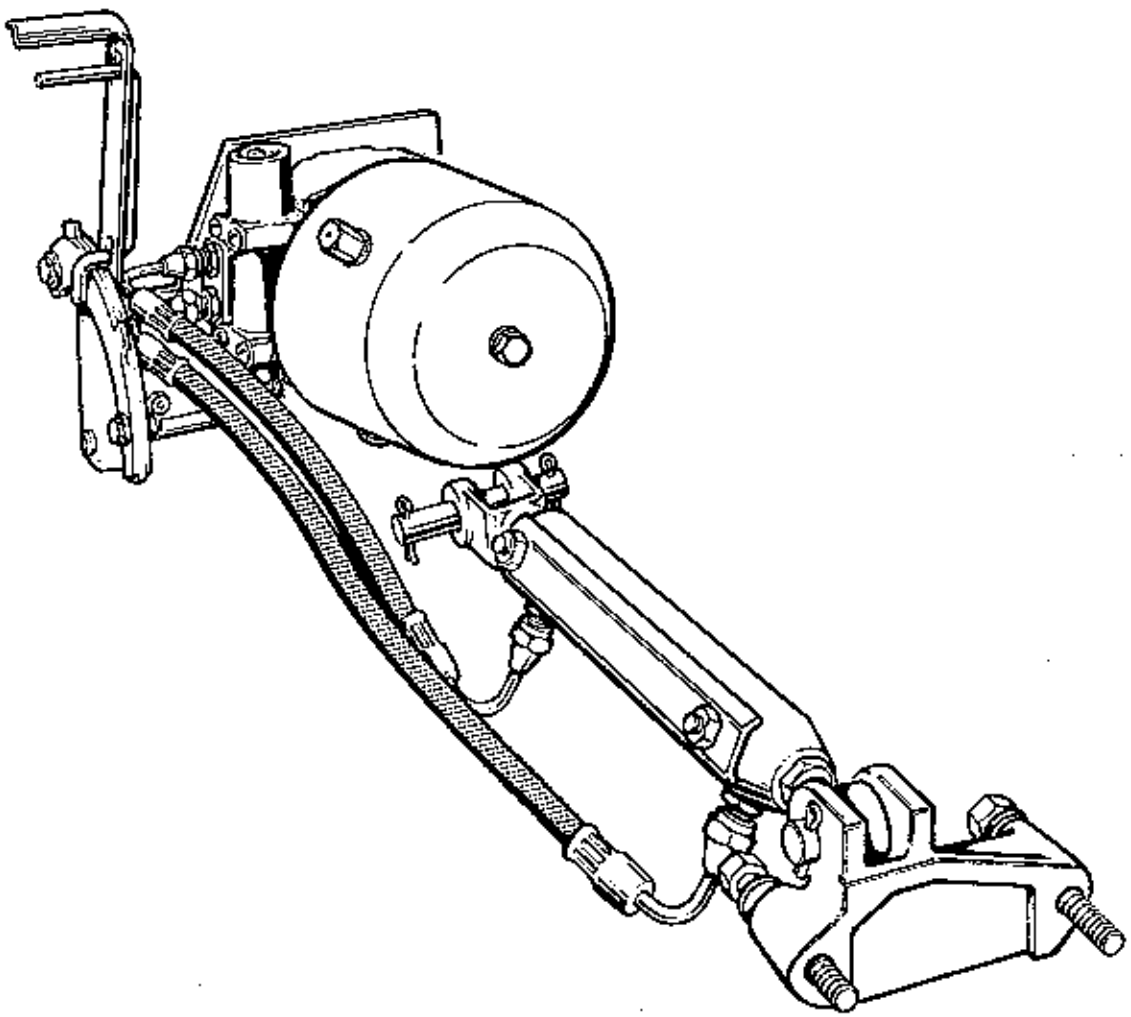

HYDRAULIC KIT No. 367

CAUTION

IT IS VITALLY IMPORTANT THAT THE FLUID AND ALL INTERNAL PARTS OF THIS UNIT BE KEPT COMPLETELY CLEAN AND FREE OF FOREIGN MATTER OF ANY TYPE.

CHANGE OIL EVERY 20 TO 25 HOURS OF TRACTOR OPERATION. USE 10W-30 OIL ONLY.

USE UTMOST CARE IN ADDING OR CHECKING FLUID, AND IN PERFORMING ANY SERVICE ON INTEGRAL PARTS.

(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using).

REMEMBER: HYDRAULICS DEMAND CLEANLINESS

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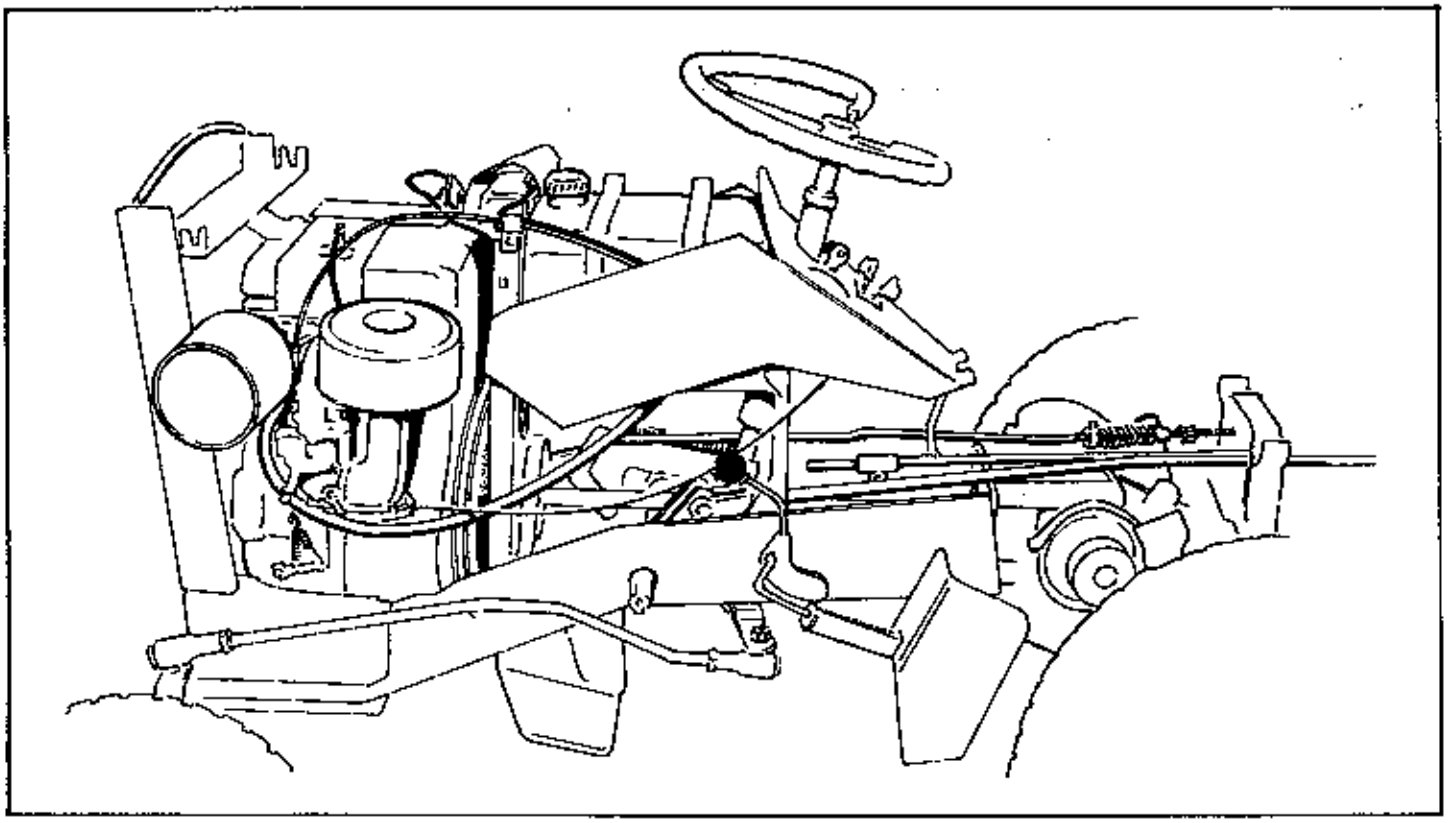


FIGURE 1

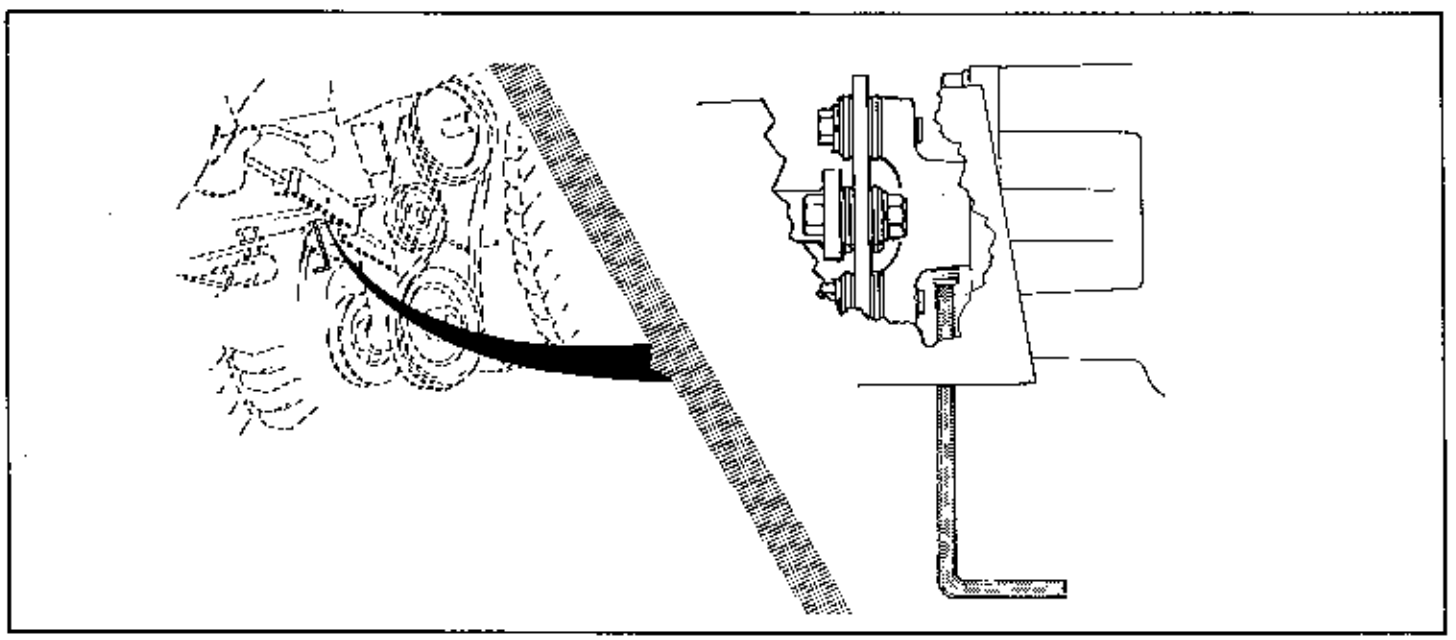


FIGURE 1A

ASSEMBLY

A. Remove hood, side panels, battery, and shut gasoline valve below tank and disconnect gasoline hose, (Fig. 1), remove dash support assembly screws, frame from tractor, left handle, and quadrant.

B. Loosen set screw on rear coupling flange through hole in bottom of frame. (Fig. 1A)

C. Remove two capscrews holding front coupling to the engine pulley (1,Fig. 2) and replace Drive Hub with the hydraulic pump drive pulley (1, Fig. 3), being sure to have the pump belt in position on the pulley before replacing the attaching screws.

D. After the front coupling is secured, re-tighten the set screw on the flange at the rear coupling.

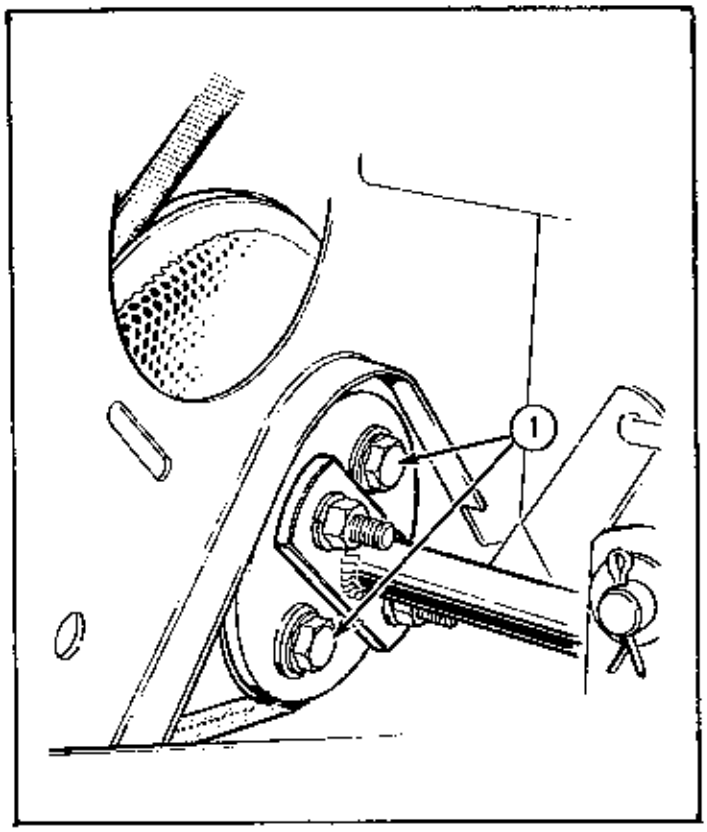


FIGURE 2

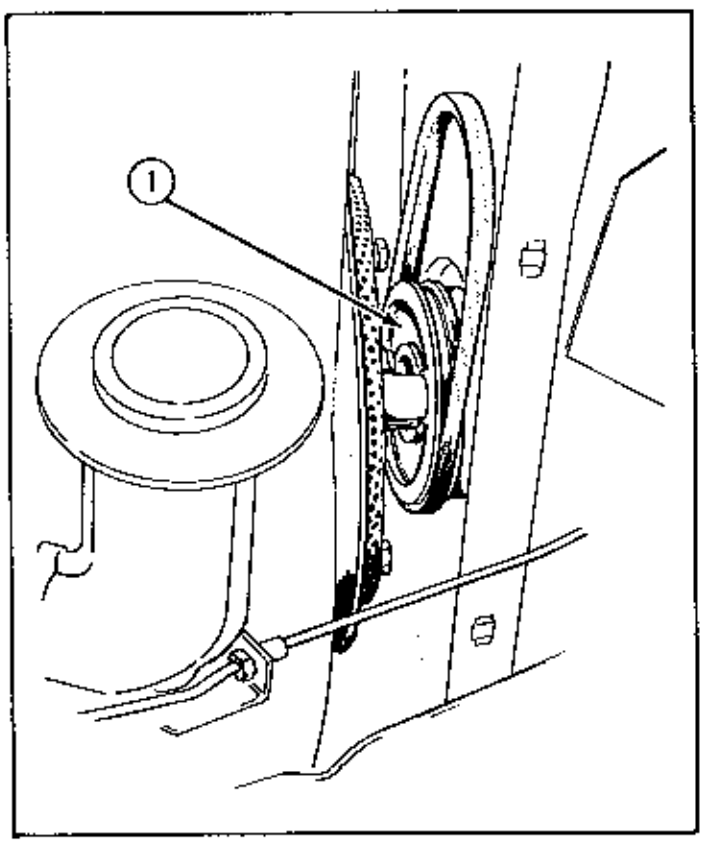


FIGURE 3

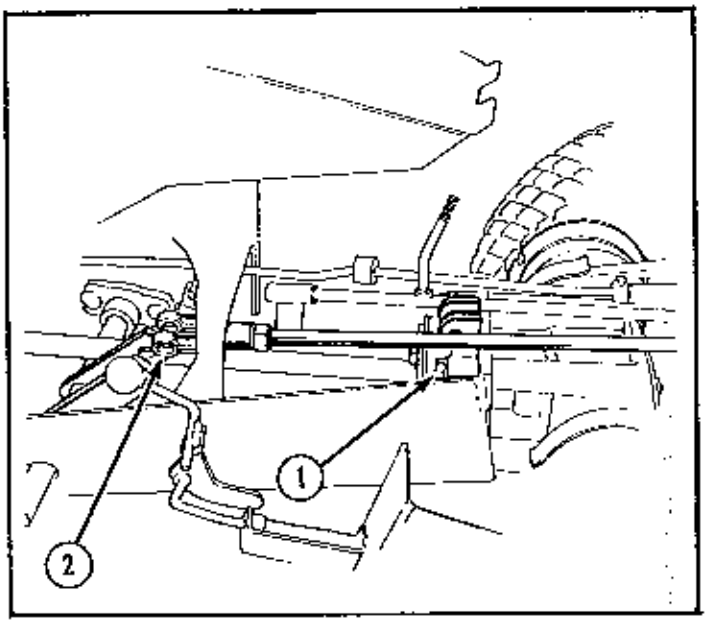


FIGURE 4

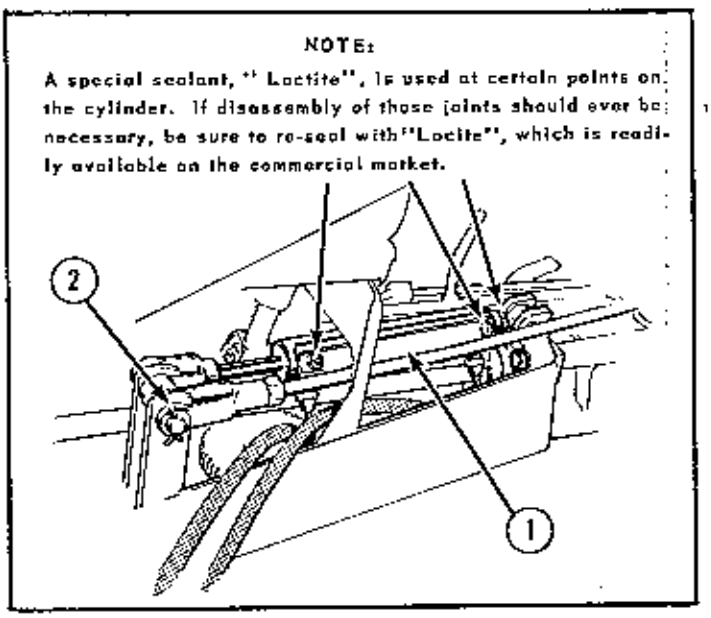


FIGURE 5

E. Remove top two screws holding bevel gear housing to rear frame plate, install rear cylinder bracket, and secure with 3/8-16 cap screws provided. (1, Fig. 4)

F. Remove pivot pin from front clevis on the left rod assembly (2 , Fig. 4)

G. Install cylinder assembly as shown (1, Fig. 5), attaching to the rear bracket with the short pin providing, and attaching the front clevis to the lift lever with the long pin and cotter keys (2, Fig. 5)

H. Attach the pump and tank assembly to the front panel of the tank support assembly by means of the three Whiz-Lock nuts provided (1, Fig. 6);

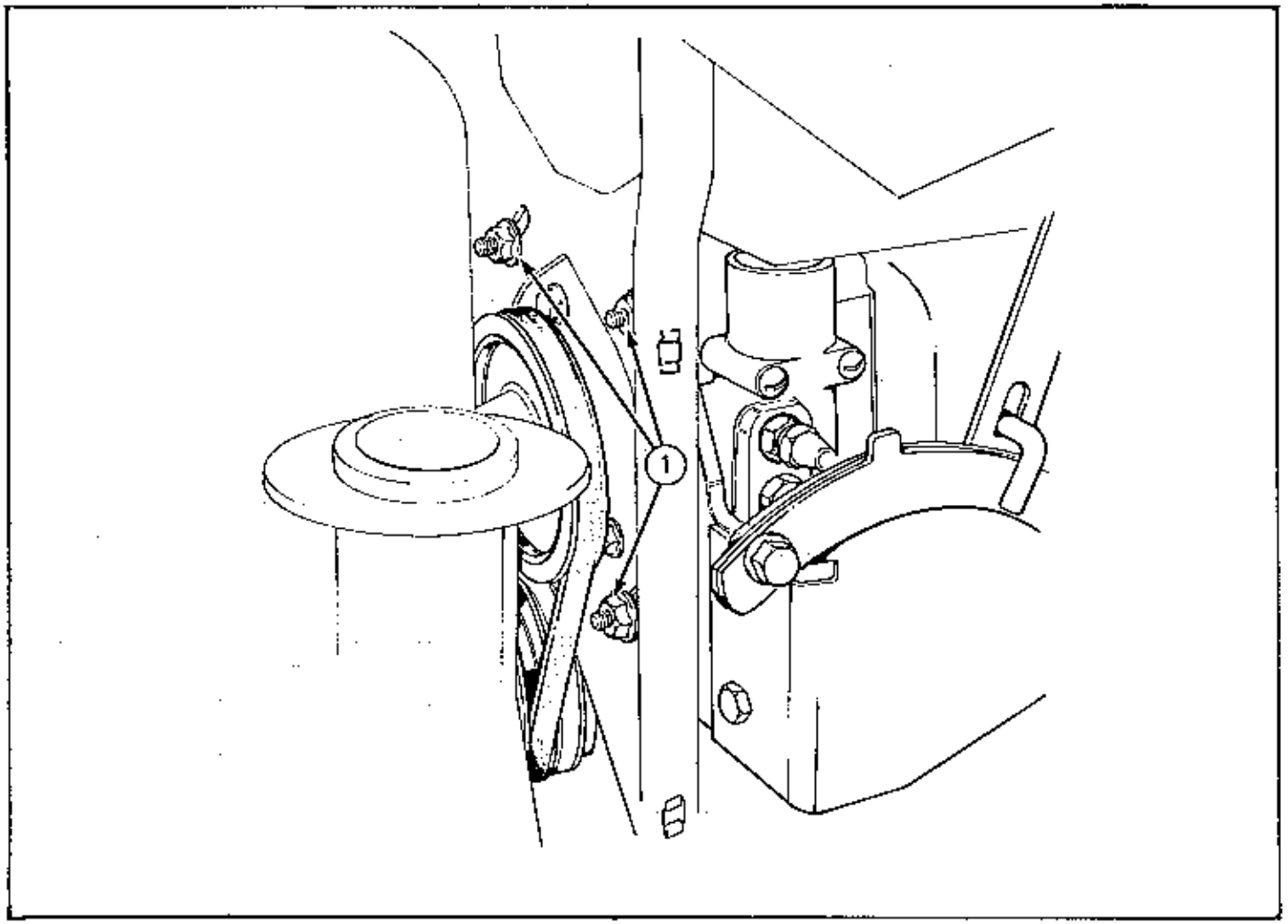


FIGURE 6

with the drive belt positioned on its pulleys. (Provide proper belt tightness by exerting light pressure under the pump assembly while tightening the Whiz-Lock nuts.

1. Remove the protective slugs from the hose fittings, and attach the longer hose from the rear cylinder fittings to the bottom fitting on the valve assembly (1, Fig. 7 & 7 A) (NOTE: The hose end with 90° bend goes to the cylinder, and the end with 114° bend goes to the valve assembly).

J. Attach the shorter hose from the front cylinder fitting to the top fitting on the valve assembly (2, Fig. 7). (Check to be sure there is no interference with the steering gear when the lift lever is operated, and that there are no kinks or sharp bends in the hose).

Install the clamp (4 Fig. 7) to hold the hoses securely in position.

K. Attach PTO clutch lever bracket (5 Fig. 7) to side of frame, and re-assemble PTO lever as shown.

L. Replace fuel line, battery, panels, etc. that were previously removed.

M. Fill pump tank to the line indicated at the lower side of the filler spout. *USE ONLY 10W-30 OIL AS RECOMMENDED, AND RECHECK THIS LEVEL PERIODICALLY. CHANGE OIL EVERY 20 TO 25 HOURS.*

N. Position tank for drain plug to be on bottom.

CAUTION: KEEP FILLER SPOUT CLEAN SO THAT NO FOREIGN MATTER CAN GET INTO TANK WHEN CAP IS REMOVED.

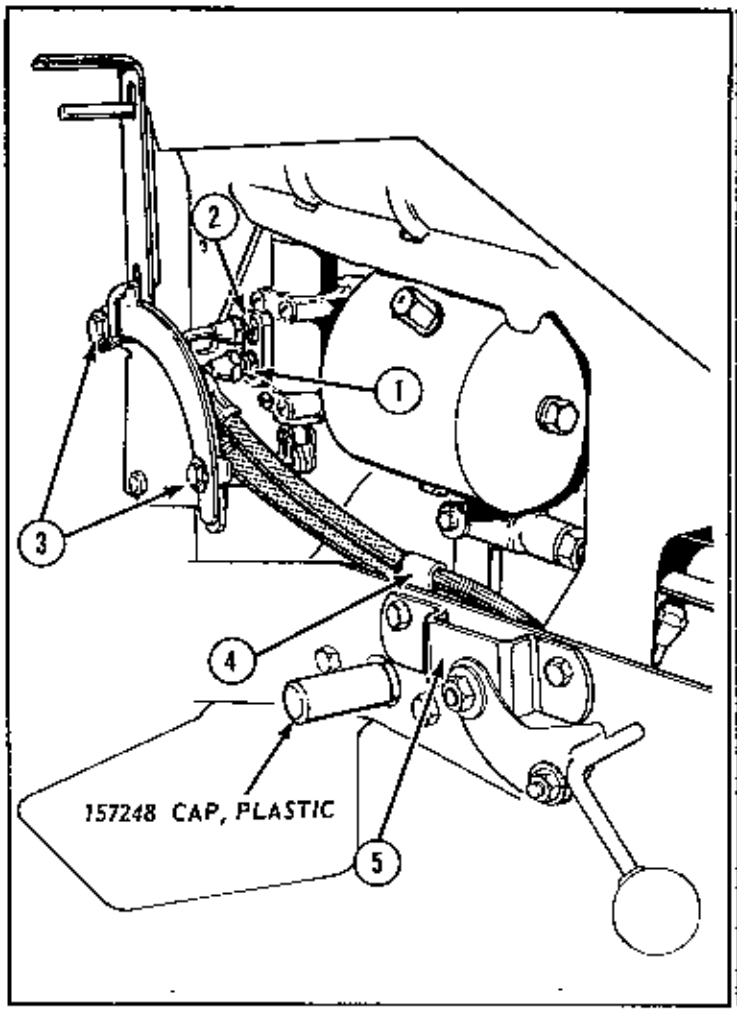


FIGURE 7A

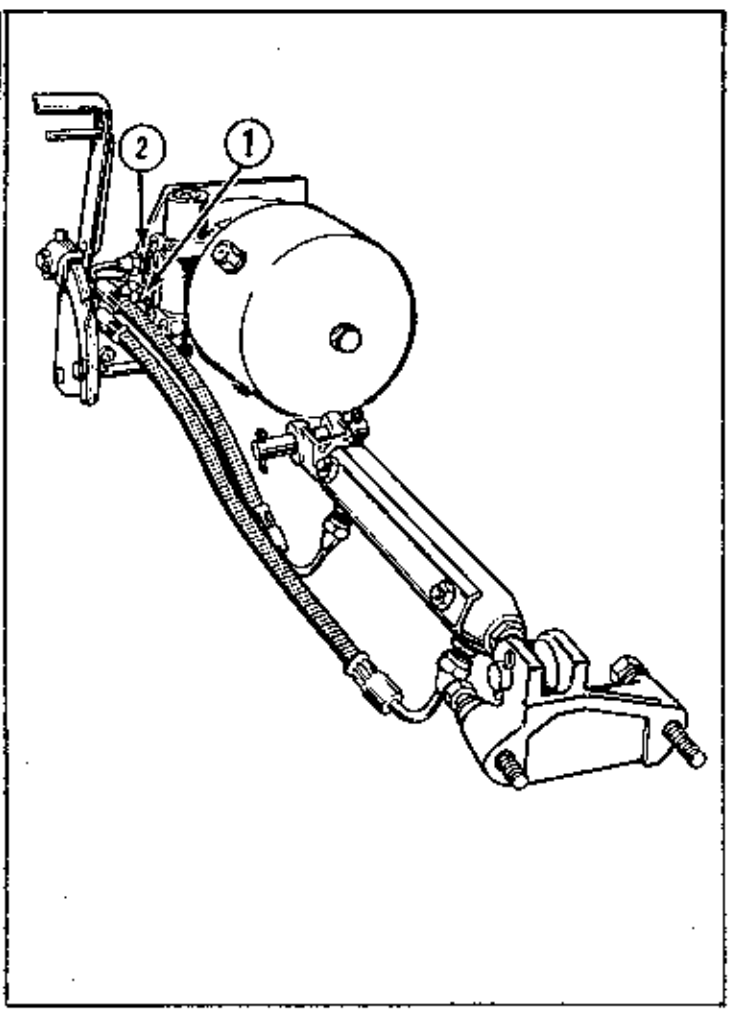


FIGURE 7

INSTRUCTIONS FOR ADJUSTING HAND LEVER AND FLOAT STOPS OF QUADRANT ON HYDRAULIC UNIT

Attach pump to pump support assembly #157420. Then attach support assembly to fuel tank and steering post support. Attach lever with connecting link to valve spool shaft.

Place the lever #157200 with the latch rod #157206 in the exact middle of the two hex cap screws "F" located in the quadrant #157199. This is done by adjusting the angle bracket #157428 and quadrant #157199 up or down on the support #157420. Tighten the capscrews securing the brackot and quadrant to the support.

Move lever to most extreme position (front or rear). Bring stop plate up so notch is striking rod #157206 and secure capscrew (F) furthest from handle. Repeat procedure to the other extreme for other stop plate.

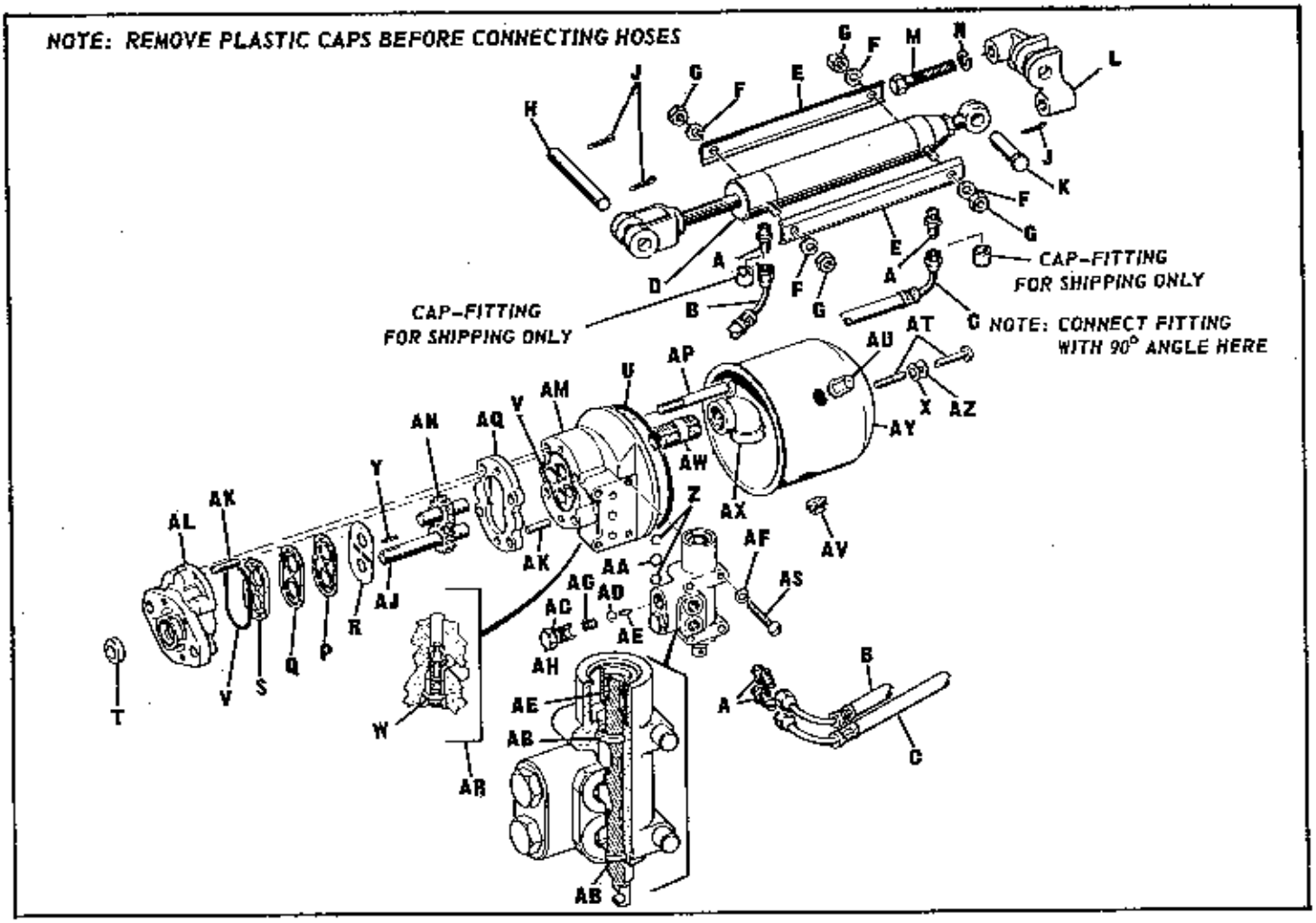
Check rod #157206 in both positions. This rod is not to have ANY FREE MOVEMENT when in front or rear float position. Excessive play at this point increases back pressure on the pump and may cause overheating of the pump. If pump is moved to lift position (front or rear) and then drops the load before entering float position, readjust the hand lever to center of quadrant as described above. Oil lever and rod to insure free movement.

The bolts holding the pump and tank together should be checked and tightened to torque or 50-60 INCH POUNDS.

CAUTION DO NOT OVERFILL **CAUTION DO NOT OVERFILL**

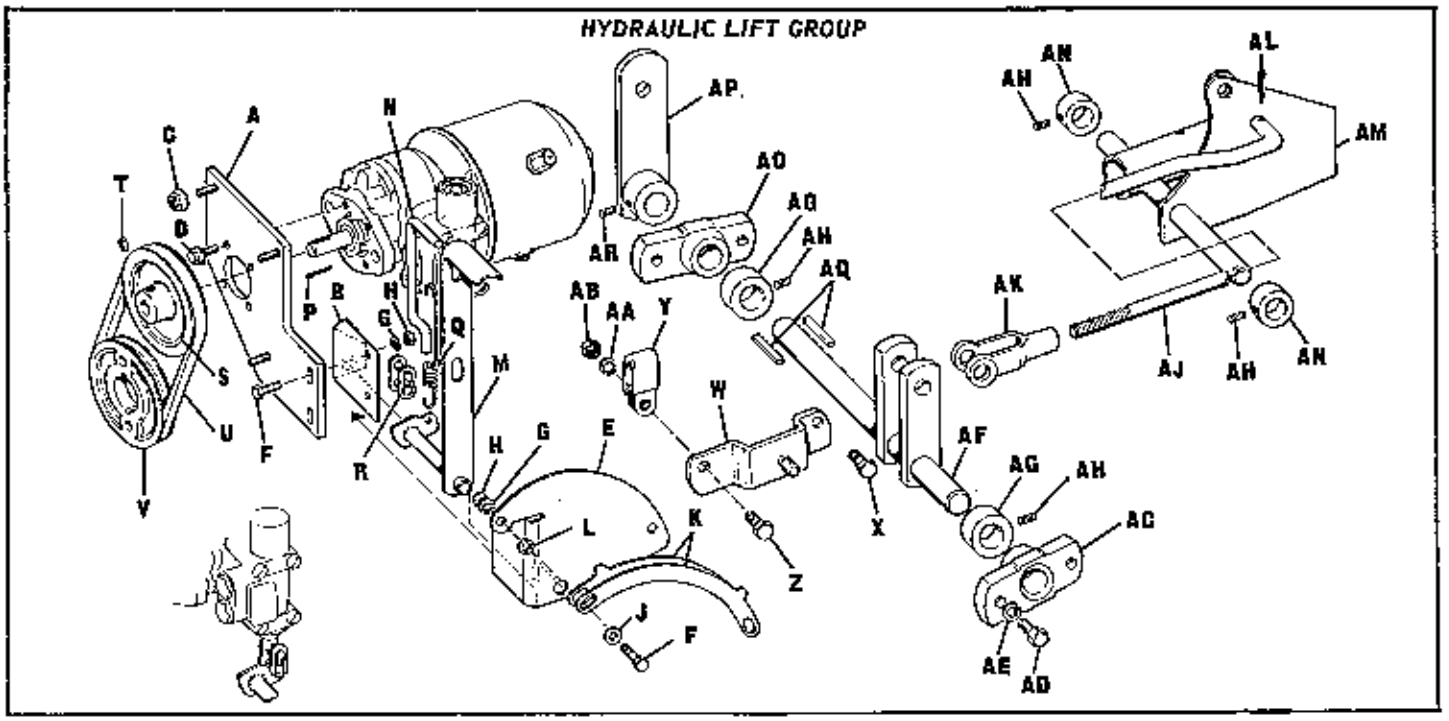
INSTRUCTIONS CONTINUED ON PAGE 7.

HYDRAULIC LIFT GROUP



Ref. Let.	Part No.	Description
A	157209	Fitting
B	157210	Hose Assembly
C	157211	Hose Assembly
D	157236	Cylinder Assembly
E	157228	Side Bar
F	720001	Lock Washer, 5/16"
G	717001	Full Hex. Nut, 5/16"-18
H	157225	Pin
J	722009	Cotter Pin, 1/8" x 3/4"
K	157194	Ram Bracket Pin
L	157001	Ram Bracket
M	705052	Hex. Cap Screw 7/16"-14 x 2-1/4"
N	720006	Lock Washer, 7/16"
P	157433	Heat Shield (for service only)
Q	157434	Gasket
R	157435	Wear Plate
S	157436	Seal
T	157437	Rotary Seal
U	157438	"O" Ring
V	157439	"O" Ring
W	157404	"O" Ring
X	157441	Stat-O-Seal
Y	157442	Shaft Drive Key
Z	157406	"O" Ring

Ref. Let.	Part No.	Description
AA	157407	"O" Ring
AB	157405	"O" Ring
AC	157444	"O" Ring
AD	157445	Ball
AE	157446	Pin Cam
AF	720003	Lock Washer 1/4"
AG	157448	Spring
AH	157449	Cage
AJ	157450	Drive Gear Assembly
AK	157451	Dowel Pin
AL	157452	Front Cover Assembly
AM	157453	Back Cover Assembly
AN	157454	Driven Gear Assembly
AP	157455	Bolt
AQ	157456	Center, Section Machined
AR	157457	Relief Valve Assembly
AS	157459	Screw
AT	157460	Screw
AU	157462	Filler Cap Plug
AV	157463	Drain Plug
AW	157464	Inlet Nipple
AX	157465	Inlet Elbow
AY	157461	Tank Assembly
AZ	719006	Flat Washer, 1/4"



Ref. Let.	Part No.	Description
A	157420	Pump Support Assembly
B	157428	Angle Bracket
C	718033	Hex. Nut, Whiz Lock, 5/16''-18
D	715060	Hex. Cap Screw, Whiz Lock, 1/4''-20 x 3/4''
E	157199	Quadrant
F	715057	Hex. Cap Screw, 1/4''-20 x 3/4''
G	720003	Lock Washer, 1/4''
H	717005	Full Hex. Nut, 1/4''-20
J	719006	Plain Washer, 1/4''
K	157204	Stop Plate
L	157205	Spacer
M	157200	Lever Assembly
N	157206	Latch Rod
P	722016	Cotter Pin, 3/32'' x 5/8''
Q	157207	Spring
R	157208	Connecting Link
S	157430	Pump Pulley
T	713503	Set Screw, 5/16''-18 x 5/16''
U	157230	''V'' Belt
V	157231	Drive Pulley

Ref. Let.	Part No.	Description
W	157233	Pivot Bar Assembly
X	705007	Hex. Cap Screw, 5/16''-18 x 1''
Y	157245	Hose Clamp
Z	705021	Hex Cap Screw, 1/4''-20 x 1''
AA	720003	Lock Washer, 1/4''
AB	717005	Full Hex. Nut, 1/4''-20
AC	154210	Lift Lever Bearing
AD	705031	Hex. Cap Screw, 3/8''-16 x 7/8''
AE	720002	Lock Washer, 3/8''
AF	157317	Lift Shaft Assembly
AG	8211005	Set Collar
AH	713503	Set Screw, 5/16''-18 x 5/16''
AJ	157301	Lift Rod
AK	154304	Adj. Yoke End
AL	722006	Cotter Pin, 1/8'' Dia. x 1''
AM	154214	Tiller Lift Assembly
AN	8021010	Set Collar
AP	157078	Front Lift Lever Assembly
AQ	157120	Key
AR	713502	Set Screw, 5/16''-18 x 1/4''

OPERATION

To raise a front mounted attachment, pull the hydraulic lever backward. When the desired height is reached, release the lever and it will return to the "hold" position.

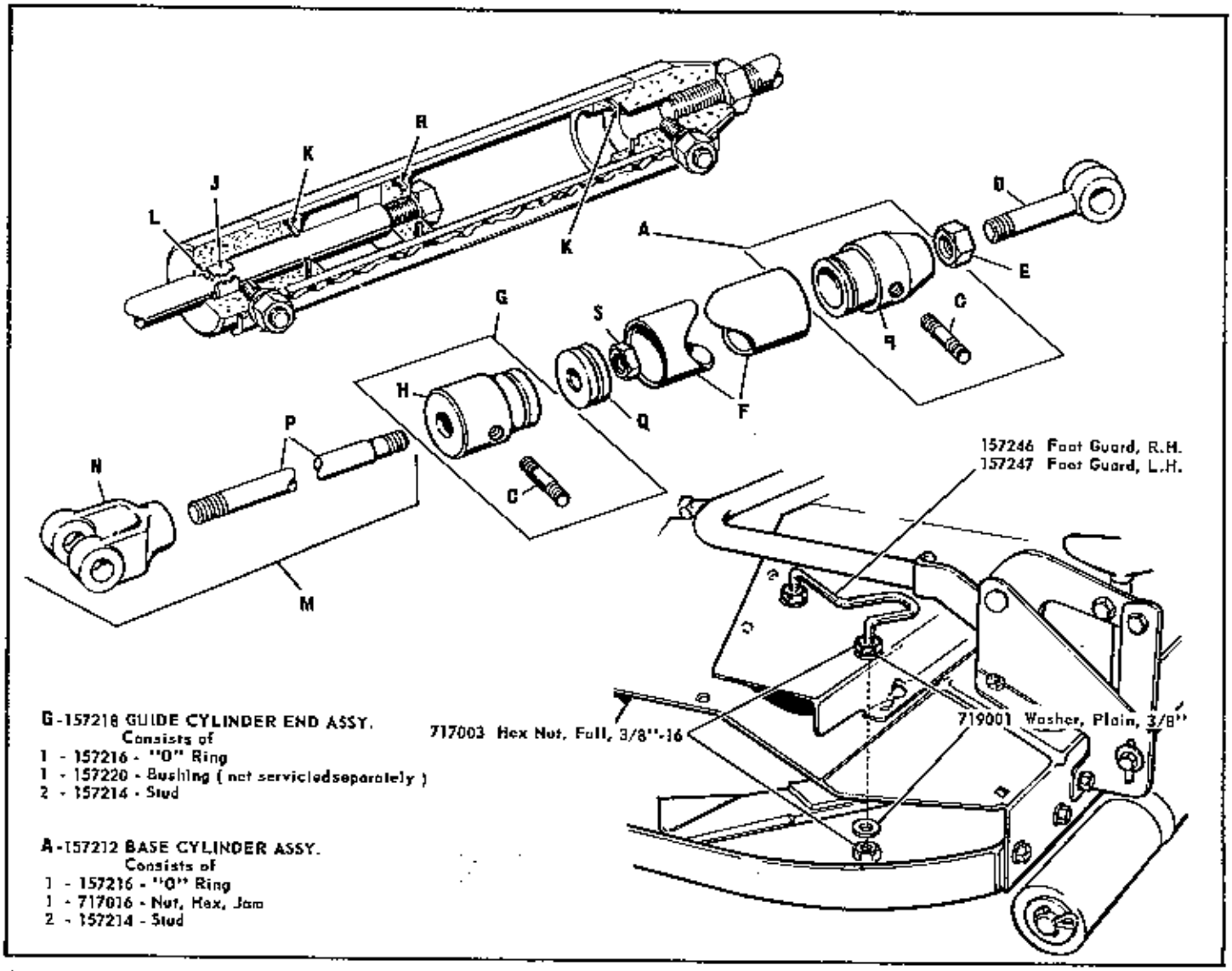
To lower a front mounted attachment, push the lever to the front, then release when desired depth is reached.

A rear mounted attachment is raised by pushing forward on the lever; and is lowered by pulling the lever backward.

The index tabs at each end of the quadrant serve as lock points for the "float" position which allows an attachment such as a dozer blade to follow ground countours freely.

NOTE---
The rear mounted tiller attachment should be operated only in the rear "float" position. Do not operate the tiller in the "hold" position, as difficulty would result if an obstacle were encountered. This would raise the rear wheels off the ground and propel the tractor forward at a dangerous rate. To get in or out of either "float" position, squeeze the release bar handle upward to clear the index tab. (3, Fig. 7)

HYDRAULIC LIFT GROUP



G-157218 GUIDE CYLINDER END ASSY.
Consists of
1 - 157216 - "O" Ring
1 - 157220 - Bushing (not servicledseparately)
2 - 157214 - Stud

A-157212 BASE CYLINDER ASSY.
Consists of
1 - 157216 - "O" Ring
1 - 717016 - Nut, Hex, Jam
2 - 157214 - Stud

Ref. Let.	Part No.	Description
A	157212	Cylinder Base Sub-Assembly
B	157213	Cylinder Base
C	157214	Stud Bolt, 5/16"-18 x 7/8"
D	157215	Bolt Eye
E	717016	Jam Hex. Nut, 1/2"-20
F	157217	Cylinder
G	157218	Sub Assembly Guide
H	157219	Cylinder End Guide
J	157220	Bushing

Ref. Let.	Part No.	Description
K	157216	"O" Ring
L	157221	"O" Ring
M	157222	Yoke & Rod Sub-Assembly
N	157223	Yoke
P	157224	Piston Rod
Q	157226	Piston
R	157227	"O" Ring
S	717009	Full Hex. Nut

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(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using.)

REMEMBER-HYDRAULICS DEMAND CLEANLINESS

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