OFM PUMP, INC.

PARTS MANUAL
OPI 700HDL TRIPLEX MUD PUMP

OFM PUMP, INC.
P.O. BOX 12192
ODESSA, TEXAS 79768

OFFICE 432-381-7390
FAX 432-385-1205

PARTS ORDERING

Listed below are address and phone numbers where you can obtain assistance, parts and service.

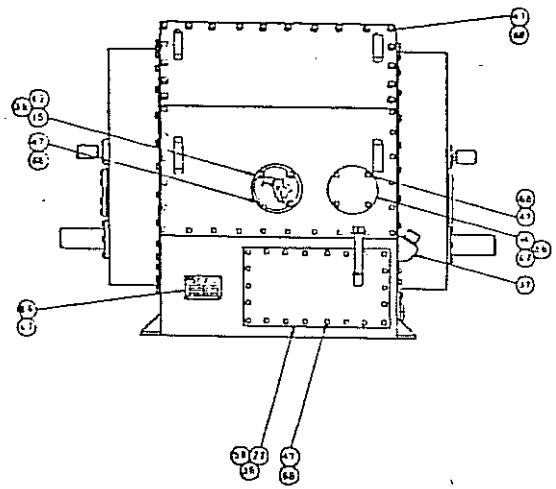
OFM PUMP, INC.
P.O. BOX 12192
2323 FM 1936
ODESSA, TEXAS 79763

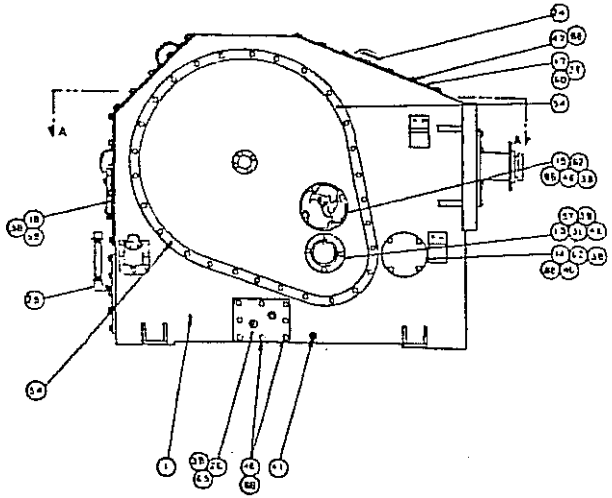
(432) 381-7390 OFF.
(877) 381-7390 OFF.
(432) 385-1205 FAX.

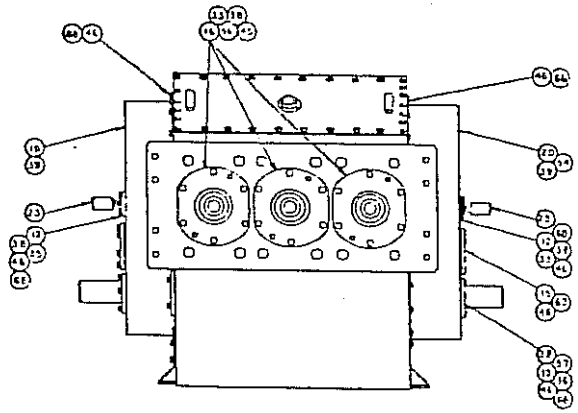
When placing an order for spare parts, you can speed up the process by having the following information when you place your call:

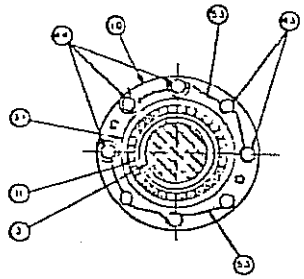
- The fluid end or power end model number and serial number – see identification tags on the pump.
- Pump model and fluid end size.
- OFM part number and description of part.
- The quantity of each part required.
- The name of your company.
- Name of person placing order.
- Your purchase order or requisition number.
- Complete shipping address (where the parts are to be shipped).
- Telephone number and contact person.
- Telephone number to call on arrival if a shipment is made to a different address.
- Complete billing address (where the invoice is to be sent).

700 HDL Power End Assembly

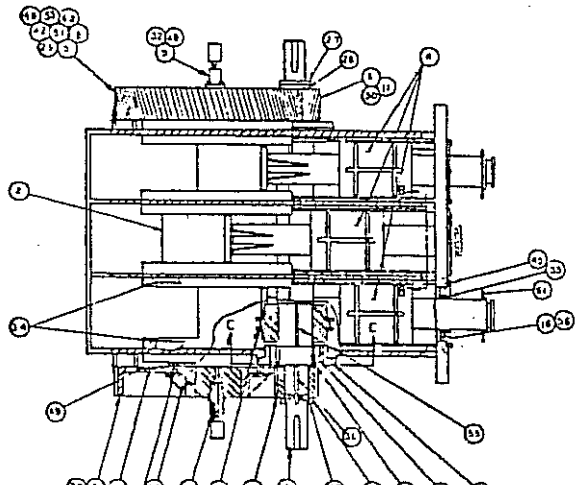


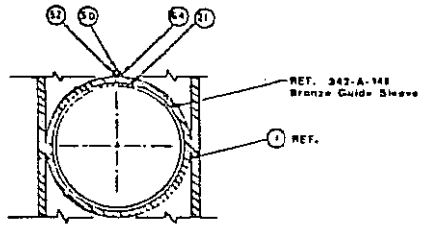






Section C-C



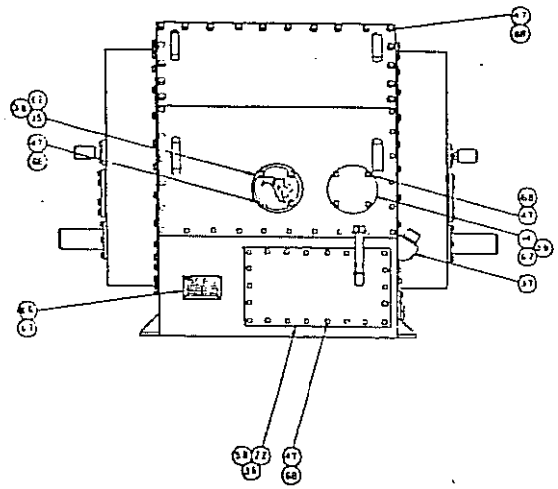


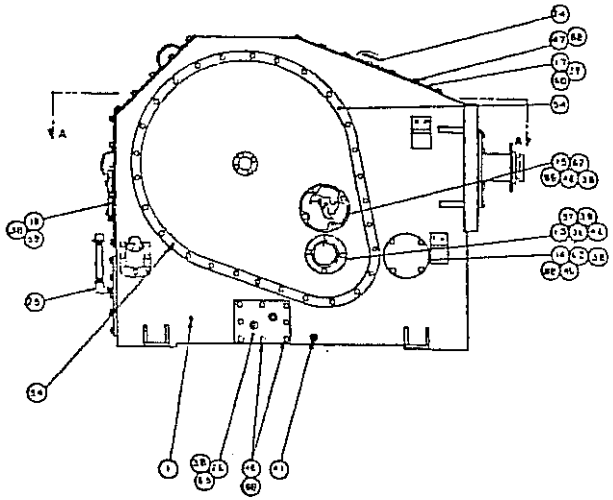
Section B-B
GUIDE SLEEVE LOCK INSTALLATION

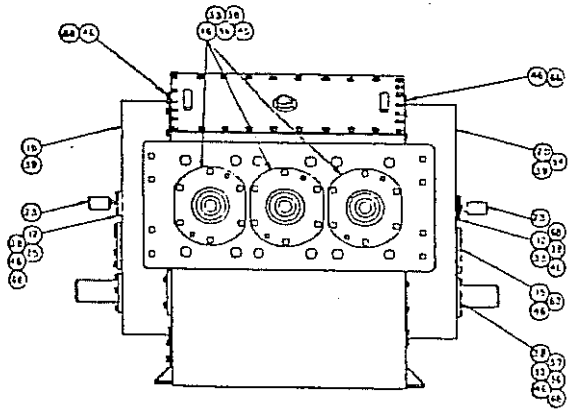
TABLE OF CONTENTS

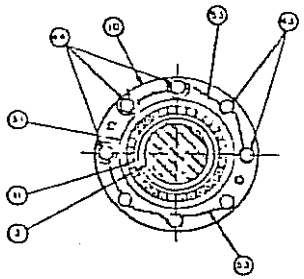
DESCRIPTION	PAGE NO.
Power End Assembly	1&2
Crankshaft Assembly	3
Crosshead Assembly	4
Cradle/Fluid End Assembly	5&6
Lube System	7&8
Plunger & Fluid End Assembly	9&10
Piston & liner Assembly	11&12
Maintenance Tools	14,15,16

700 HDL Power End Assembly

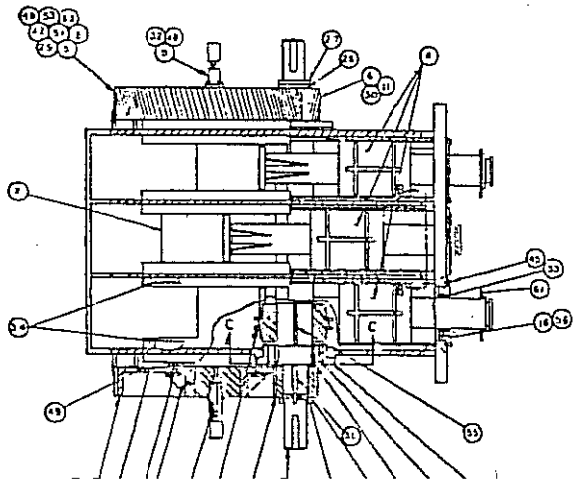


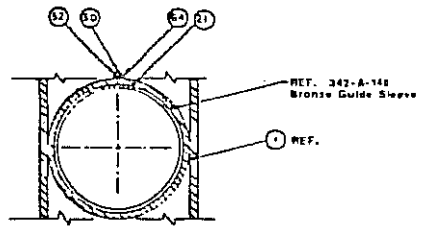






Section C-C





Section B-B
GUIDE SLEEVE LOCK INSTALLATION

TABLE OF CONTENTS

DESCRIPTION	PAGE NO.
Power End Assembly	1&2
Crankshaft Assembly	3
Crosshead Assembly	4
Cradle/Fluid End Assembly	5&6
Lube System	7&8
Plunger & Fluid End Assembly	9&10
Piston & liner Assembly	11&12
Maintenance Tools	14,15,16

700HDL POWER END ASSEMBLY

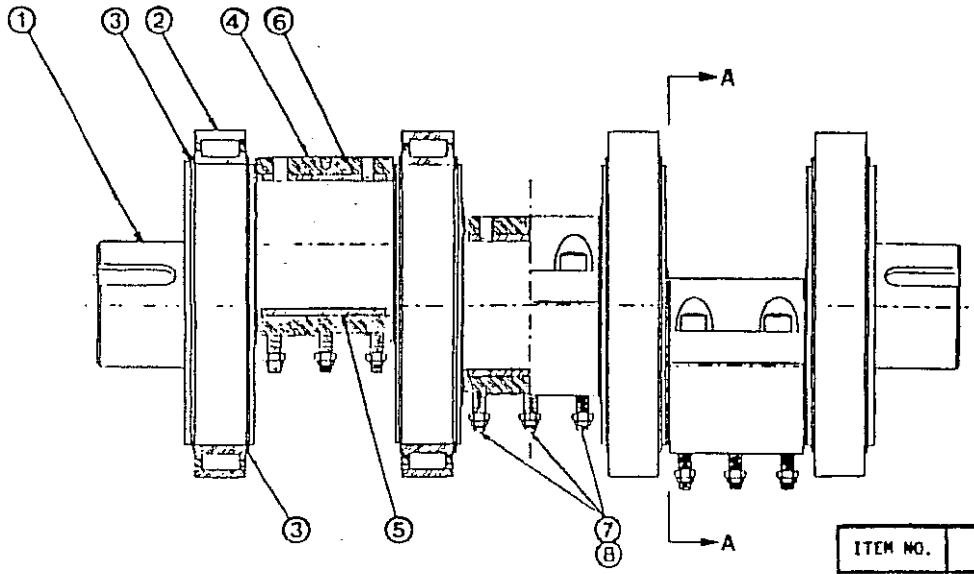
330AD001

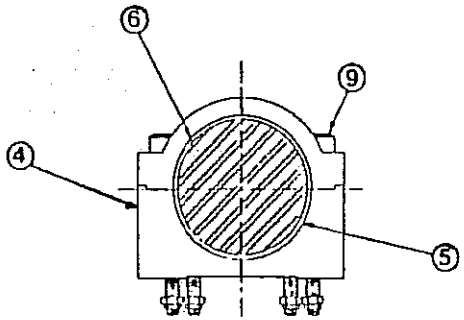
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	330PN001	1	Power Frame
2	80AD03	1	(See Crankshaft Assembly)
3-1	471PN05	1	Pinion Shaft
3-2	471PN07	1	Pinion Shaft, L.H.,Drilled For Air Clutch
3-3	471PN08	1	Pinion Shaft, R.H.,Drilled For Air Clutch
4	100AD04	3	(See Crosshead Assembly)
5	342-C-48	2	Bull Gear
6	555VP004	1	Pinion Gear, 4.95:1 R.H.
7	555VP005	1	Pinion Gear, 4.95:1 L.H.
8	342-A-32	2	Bronze Thrust Ring
9	342-A-74	2	Crankshaft Rotary Union Adapter
10	342-B-22	2	Pinion Bearing Housing
11	342-A-44	2	Pinion Spacer
12	342-A-75	2	Rotary Union Seal Carrier
13	342-A-45	2	Pinion Shaft Seal Retainer
14	342-A-09	2	Inspection Cover
15	342-A-09A	3	Inspection Cover With Insignia
16	342-C-93	3	Pony Rod Seal Retainer
17	580WD045	1	Power Frame Cover-Top
18	580WD044	1	Power Frame Cover-Rear
19	582PN10	1	Gear Cover,RH
20	582PN11	1	Gear Cover,LH
21	342-A-141	3	Guide Sleeve Lock
22	342-B-130	1	Rear Cover Plate
23	922PN01	2	Rotary Union
24	910PN01	1	Filler Breather Strainer Cap
25	342-A-58	1	Dipstick Assembly
26	342-B-131	1	Lube Junction Cover Plate
27	924PN01	2	Locknut
28	929PN01	2	Lockwasher
29	631PN01	2	Bull Gear Key
30	631PN008-040	2	Key, Round Both Ends
31	9255H01-18	2	Bearing
32	901SH05-223	2	O-Ring
33	901SH02-4	9	Oil Seal
34	9265H01-7	4	Snap Ring

ITEM NO.	PART NO.	QTY.	DESCRIPTION
35	901SH02-13	2	Oil Seal
36	901SH02-14	2	Oil Seal
37	910PN03	1	Suction Screen
38	509000000	1	Carton ATV
39	565PN27	2	Gear Cover Gasket
40	902PN03	1	Sprocket, Double Split
41	971VP002-006	2	Pipe Plug
42	454VP021-030	8	Capscrew,DHH,1-1/4-7UNC-2Ax3
43	454VP017-020	10	Capscrew,DHH,3/4-10UNC-2Ax2
44	454VP017-014	6	Capscrew,DHH, 3/4-10UNC-2A
45	454VP005-014	18	Capscrew,HH, 5/8-11UNC-2Ax1-1/2
46	454VP003-010	92	Capscrew,HH, 3/8-16UNC-2Ax1
47	454VP003-006	98	Capscrew,HH, 3/8-16UNC-2Ax3/4
48	454VP024-006	8	Capscrew,SH, 5/16-18UNC-3Ax3/4
49	454VP051-006	16	Capscrew,BRS, 3/8-16UNC-2A
50	454VP061-014	3	Capscrew, Flat SH, 3/8-16UNC-3A
51	452VP001-010	8	Lockwasher
52	458VP002-003	3	Hex Nut 3/8-16UNC-2B
53	174000018	AR	Safety Wire, A-36, 18Ga.
54	634VP003-006	4	Dowel Pin
55	631PN006-066	1	Key, Round Both Ends
56	565PN04	3	Pony Rod Seal Retainer Gasket
57	565PN06	2	Pinion Shaft Retainer Gasket
58	565PN08	1	Lube Sump Cover Gasket
59	565PN10	1	Rear Cover Gasket
60	565PN09	1	Top Cover Gasket
61	9465H01-2	3	Pony Rod Baffle
62	565PN032	5	Inspection Cover Gasket
63	451VP001-006	4	Setscrew, Bull Gear Key Retaining
64	452VP001-003	3	Lockwasher
65	565PN05	1	Lube Junction Cover Gasket
66	919PN001	1	ID Plate
67	454VP054-002	4	Round Head Drive Screw No. 4
68	452VP004-011	190	Lockwasher, Ext. Tooth, 3/8"

700 HDL Crankshaft Assembly

80AD03



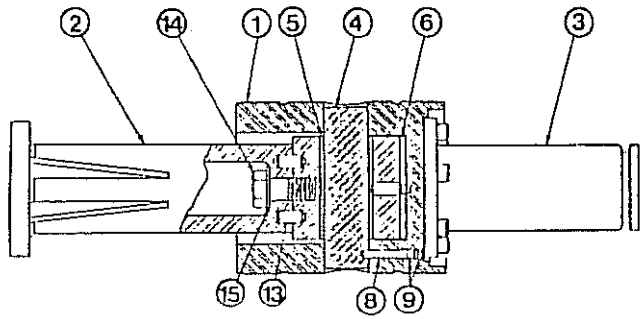


SECTION A-A
TYP 3 PLACES

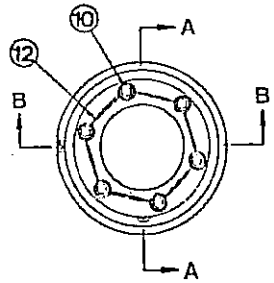
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	473PN15	1	Crankshaft, Nitrided
2	925SH01-12	4	Roller Bearing
3	926SH01-1	8	Snap Ring
4	444PN01	3	Connecting Rod Bearing Housing
5	925PN003	3	Bearing, Connecting Rod, Base Half
6	925PN002	3	Bearing, Connecting Rod, Cap Half
7	450VP003-034	18	Stud, 3/4-10UNCx3-1/2 LG
8	458VP005-006	18	Nut, Flex Loc, Full HGT, Heavy Duty 3/4-10 UNC
9	454VP040-030	12	Capscrew, Sock Head, Drilled 1-8UNCx3 LG

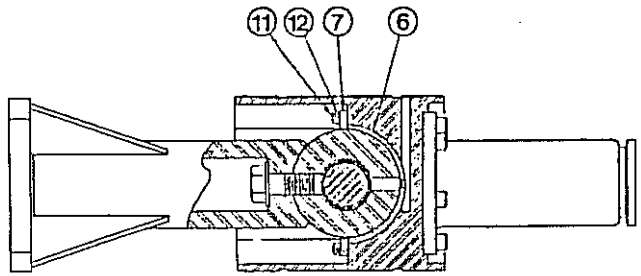
700 HDL Crosshead Assembly

100AD04



SECTION "A-A"

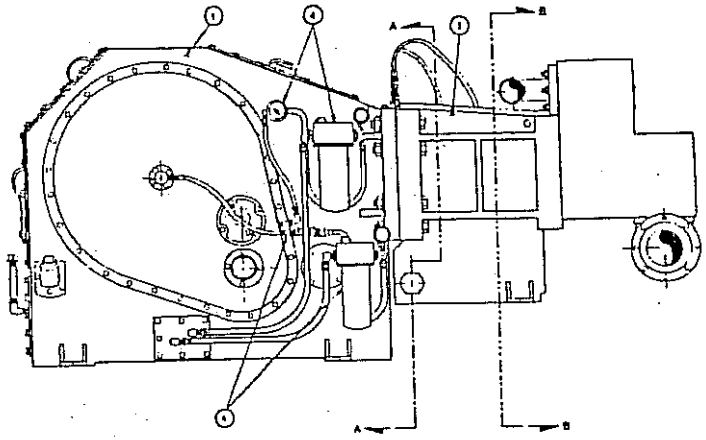


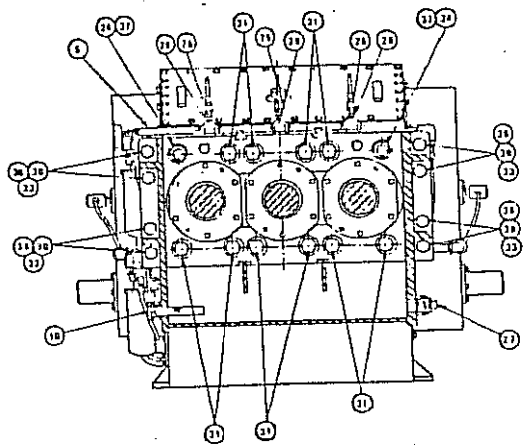


SECTION "B-B"
ROTATED 90° CLOCKWISE

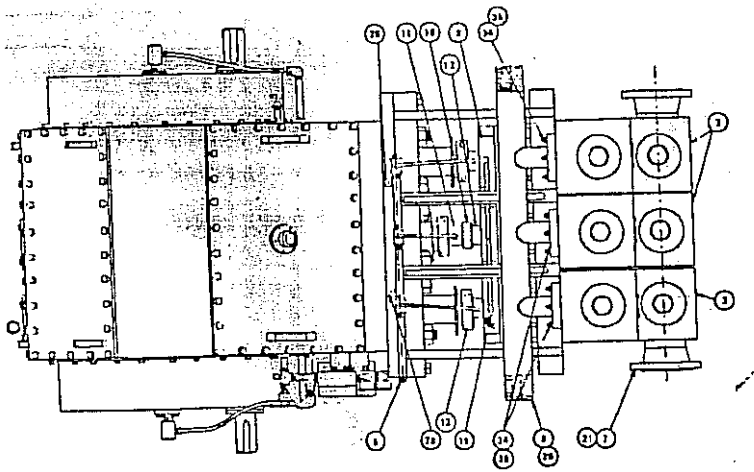
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	342-C-18A	1	Crosshead
2	551PN05	1	Connecting Rod
3	286PN004	1	Pony Rod
4	630PN003	1	Wrist Pin
5	342-A-22	1	Wrist Pin Bushing
6	917PN07	1	Thrust Seat
7	342-A-108	2	Thrust Seat Keeper
8	635PN04	1	Bar Plug
9	451VP002-004	2	Set Screw, Hex Socket, Cup Point 5/8-11UNC-3Ax1/2 LG
10	454VP038-014	6	Capscrew, Socket Head, Drilled 3/4-10UNC-3Ax1-1/2 LG
11	454VP036-010	8	Capscrew, Socket Head, Drilled 1/2-13UNC-3Ax1 LG
12	174000018	AR	Safety Wire, A-36, 18 Gauge
13	634VP004-012	2	Dowel Pin, 5/16x1-1/4 LG
14	454VP053-026	1	Capscrew, Hex Head, 1-1/4-12UNFx2-3/4 LG, Grade 8
15	452VP001	1	Flat Washer 1-1/4 Hardened

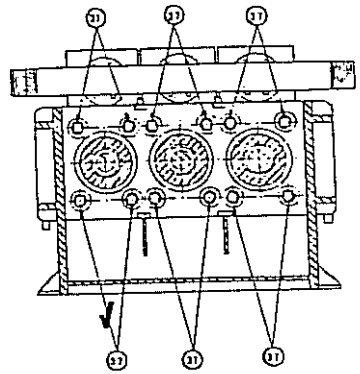
700 HDL CRADLE/FLUID END ASSEMBLY





SECTION A-A





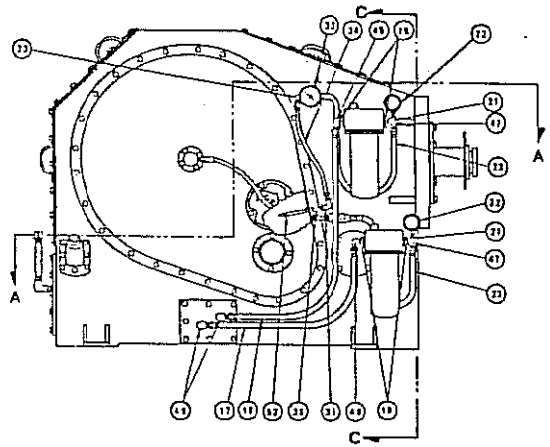
SECTION B-B

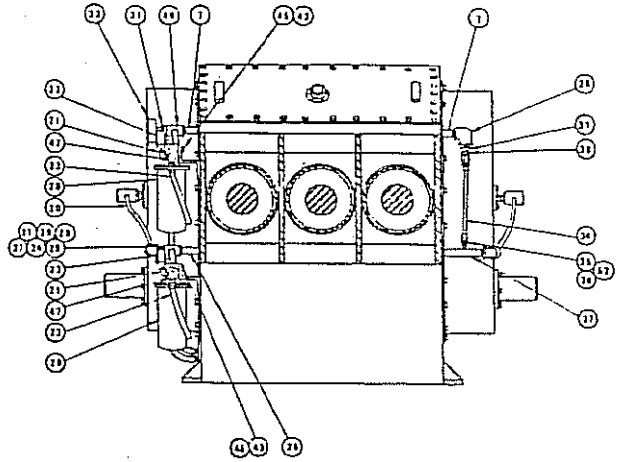
700 HDL CRADLE/FLUID END ASSEMBLY

701AD004

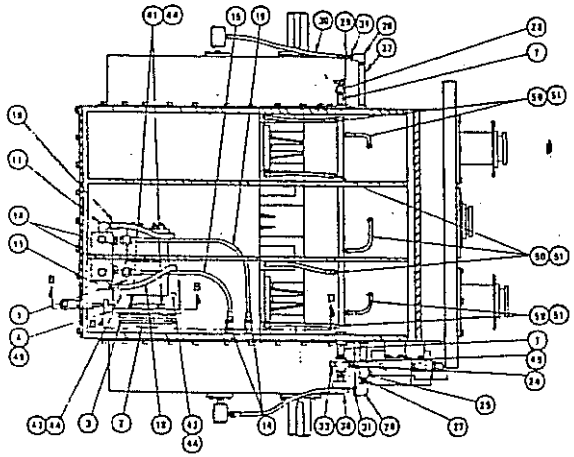
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	330AD001	1	Power Frame
2	331PN002	1	Cradle
3	014AD004	3	Fluid Cylinder
4	654AD006	1	Lube System (See Page 788)
5	355AD002	1	Piston Flush Manifold
6	---------		
7	11BPN001	1	Suction Manifold
8	101WD004	1	Discharge Manifold
9	336WD007	3	Splash Guards
10	909PN01	1	Difuser
11	043PN001	3	Piston Rod, Internal Flush System
12	40PN05	3	Piston Rod
13	342-C-77	3	Pony Rod Clamp
14	--------		
15	--------		
16	--------		
17	--------		
18	171PN07	3	Piston Rod Clamp
19	342-A-143	1	Splash Guard Retaining Bar
20	9015H05-344	3	Discharge Manifold O-Ring
21	9015H05-258	3	Suction Manifold O-Ring
22	--------		
23	--------		
24	450PN04	2	Locating Stud
25	916PN015-420	3	Hose, Rubber
26	968VP001-018	3	Hose Adapter, Male Connection
27	971VP002-009	1	Pipe Plug
28	454VP003-006	2	Capscrew,HH, 3/8-16UNC-2Ax3/4
29	--------		
30	454VP008-074	8	Capscrew,HH, 7/8-9UNC-2Ax2
31	450VP011-074	10	Stud, 1-3/4-8UNC-2Ax7-1/2
32	--------		
33	452VP001-008	8	Lockwasher
34	450VP003-034	18	Stud 3/4-10UNC-2Ax3-1/2
35	45BVP002-006	18	Hex Nut 3/4-10UNC-2B
36	45BVP004-008	8	Hex Nut, Hvy, 1-8UNC-2B
37	45BVP006-005	14	Hex Nut, Hvy, 1-3/4-8UNC-2B

700 HDL Lube System

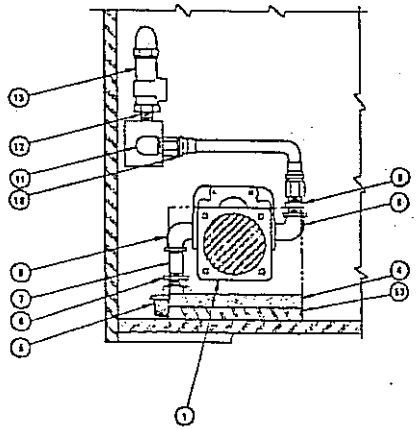




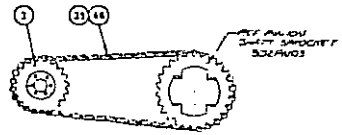
SECTION C-C



SECTION A-A



SECTION B-B



SECTION D-D

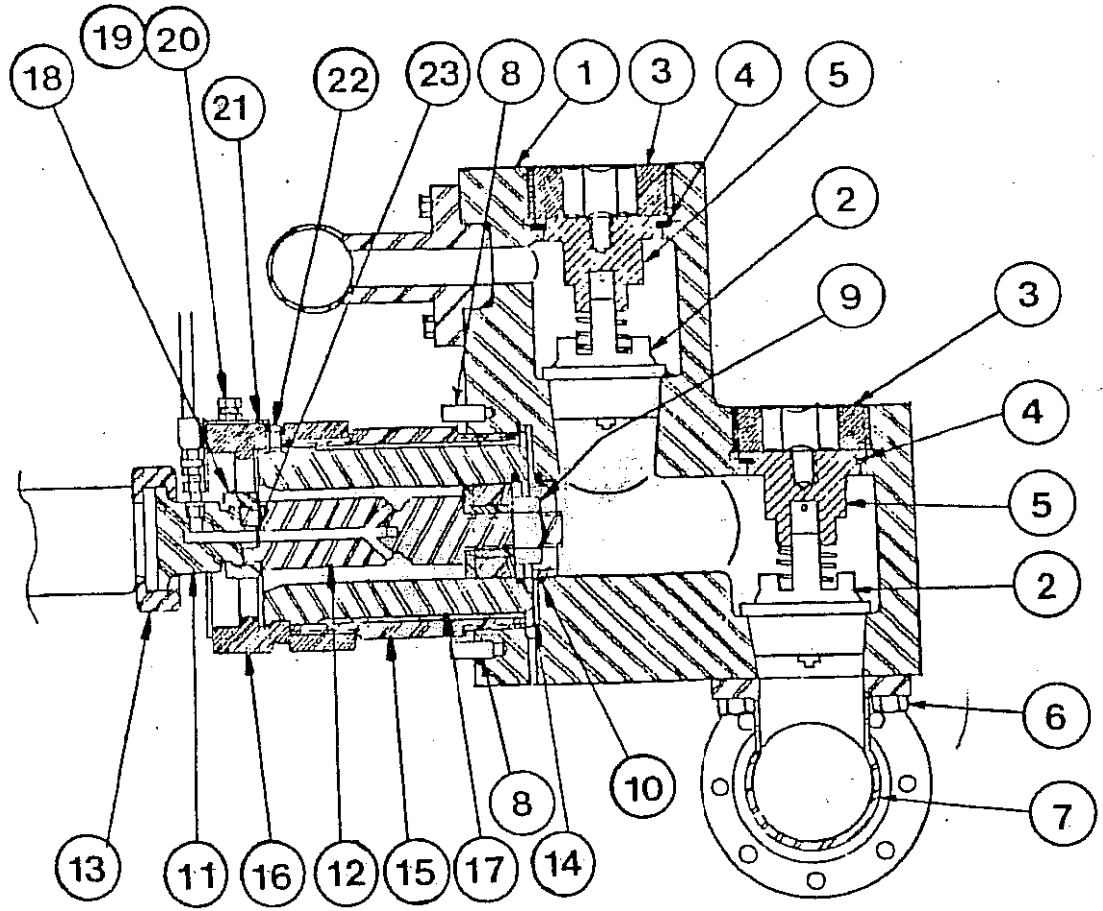
700 HDL LUBE SYSTEM

654AD006

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	914PN01	1	Lube Pump
2	905PN04	1	Bushing
3	902PN04	1	Double Sprocket
4	337PN03	1	Lube Pump Bracket
5	909PN02	2	Suction Screen
6	971VP001-022	2	Pipe Bushing
7	971VP026-030	4	Pipe Nipple
8	971VP006-006	4	90° Street Ell
9	968VP001-025	2	Hose Adapter, Male Connection
10	916VP004-180	2	Hose, Teflon
11	968VP003-025	2	Hose Adapter, 90° Male Elbow
12	971VP040-013	2	Pipe Nipple
13	912PN01	2	Relief Valve
14	968VP001-024	4	Hose Adapter, Male Connection
15	916VP004-320	1	Hose,Teflon
16	916VP004-370	1	Hose,Teflon
17	916PN017-330	1	Hose,Rubber
18	916PN017-450	1	Hose,Rubber
19	971VP001-023	4	Pipe Bushing
20	913PN01	2	Schroeder Filter
21	971VP006-002	2	90° Street Ell
22	915PN01	2	Marshaltown Gage
23	916PN017-360	2	Hose,Rubber
24	968VP007-017	2	Hose Adapter, Male Connection
25	971VP020-010	1	Reducing Tee
26	971VP026-040	1	Pipe Nipple
27	971VP026-014	1	Pipe Nipple
28	971VP004-006	3	90° Elbow
29	968VP007-014	2	Hose Adapter, Male Connection
30	916VP018-260	2	Hose, Teflon

ITEM NO.	PART NO.	QTY.	DESCRIPTION
31	971VP001-012	4	Pipe Bushing
32	915PN02	1	Temperature Gage
33	968VP003-004	1	Hose Adapter, 90° Male Elbow
34	916VP005-180	2	Hose,Teflon
35	971VP004-002	2	90° Elbow
36	971VP002-014	2	Pipe Nipple
37	971VP026-080	1	Pipe Nipple
38	968VP001-006	1	Hose Adapter, Male Connection
39	941SH01-1	1	Cotter Chain
40	631PN006-074	1	Key, Round Both Ends
41	454VP004-016	4	Capscrew,HH, 1/2-13UNC-2Ax1-3/4
42	454VP004-014	4	Capscrew,HH, 1/2-13UNC-2Ax1-1/2
43	454VP003-010	4	Capscrew,HH, 3/8-16UNC-2Ax1
44	452VP001-004	8	Lockwasher, 1/2"
45	452VP001-003	4	Lockwasher, 3/8"
46	924SH01-1	1	Chain Connecting Link
47	571PN05	2	Lube Adapter
48	968VP008-019	4	Hose Adapter,90° Male Elbow
49	573PN01	1	Lube Adapter Tee
50	916VP005-120	7	Hose, Teflon
51	968VP001-004	7	Hose Adapter, Male Connection
52	342-A-61	2	Nozzle
53	451PN05	1	Lube Pump Bolting Block

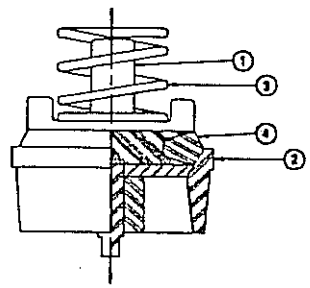
700 HDL Plunger & Fluid End Assy.



700 HDL PLUNGER & FLUID END ASSEMBLY

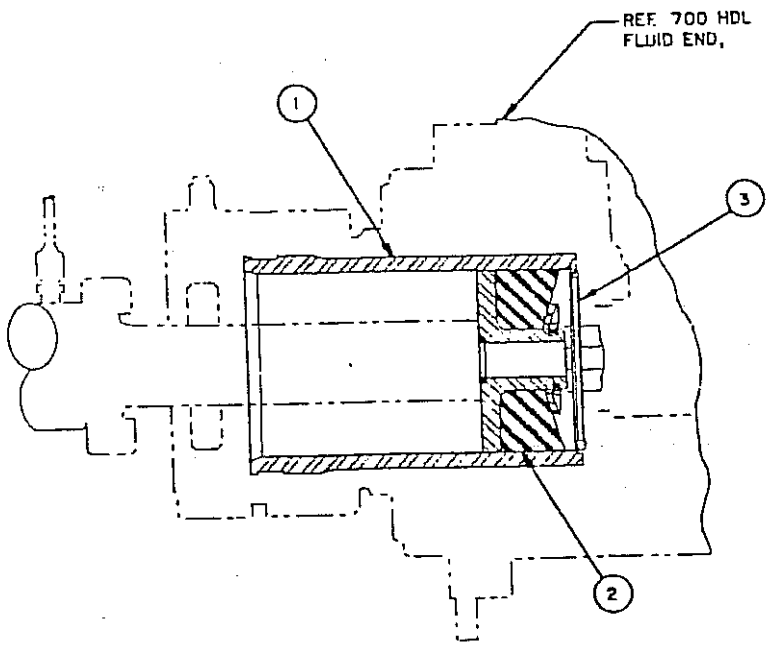
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	342-E-02	3	Fluid End
2	927AD012	6	Valve Assembly (See Figure at Right)
3	342-A-92	6	Retainer Nut
4	901SH13-1	6	Gasket Seal
5	342-B-123	6	Suction & Discharge Valve Cover
6	454VP007-020	12	Capscrew,HH, 7/8-9UNC-2Ax2
7	118PN001	1	Suction Manifold
8	634VP009-020	6	Dowel Pin
9	924PN03	3	Piston Rod Nut
10	901SH13-2	3	Seal
11	043PN001	3	Piston Rod, Internal Flush System
12	40PN05	3	Piston Rod
13	342-C-77	3	Pony Rod Clamp
14	342-B-124	3	Liner Wear Plate
15	342-C-84	3	Liner Adapter
16	342-C-85	3	Liner Gland Nut
17	933DL001	Ref	(See Piston & Liner Assy.)
18	171PN07	3	Piston Rod Clamp
19	342-A-143	1	Splash Guard Retaining Bar
20	454VP003-006	3	Capscrew,HH, 3/8-16UNC-2Ax3/4
21	336WD007	3	Splash Guard
22	454VP026-012	9	Capscrew,SH,1/2-13UNC-3Ax1-1/4
23	901SH05-214	3	O-Ring

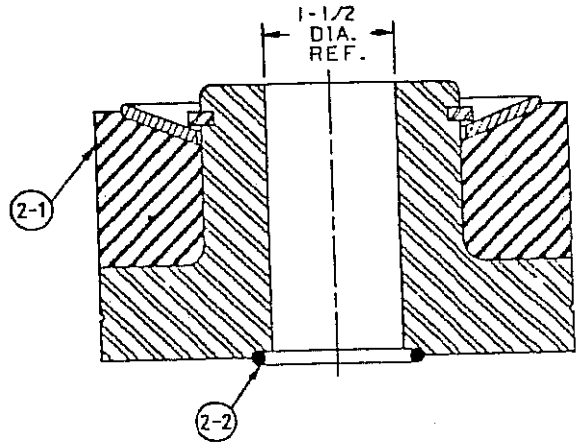
VALVE ASSEMBLY



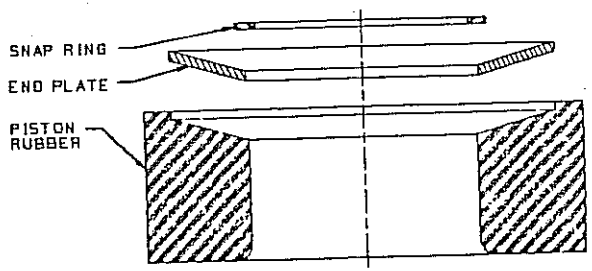
ITEM NO.	PART NO.	QTY.	DESCRIPTION
-----	927AD012 includes	6	Valve Assembly
1	927SH09-1	1	Valve
2	928SH04-1	1	Valve Seat
3	918PN18	1	Valve Spring
4	935SH01-18	Ref	Valve Insert (Replacement)

700 HDL Piston & Liner Assy.





(2) COMPLETE PISTON ASSEMBLY



(3) PISTON RUBBER ASSEMBLY

700 HDL PISTON & LINER ASSY.

4-1/2" PISTON & LINER ASSY.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	934PN06	1	Liner
2	923VP002-002	1	Piston Assy.
2-1	924VP002-002	Ref	Piston Rubber Assy.
2-2	901SH05-223	Ref	O-Ring
3	901SH13-2	1	Liner Seal

5" PISTON & LINER ASSY.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	934PN07	1	Liner
2	923VP002-003	1	Piston Assy.
2-1	924VP002-003	Ref	Piston Rubber Assy.
2-2	901SH05-223	Ref	O-Ring
3	901SH13-6	1	Liner Seal

5-1/2" PISTON & LINER ASSY.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	934PN08	1	Liner
2	923VP002-004	1	Piston Assy.
2-1	924VP002-004	Ref	Piston Rubber Assy.
2-2	901SH05-223	Ref	O-Ring
3	901SH13-5	1	Liner Seal

6" PISTON & LINER ASSY.

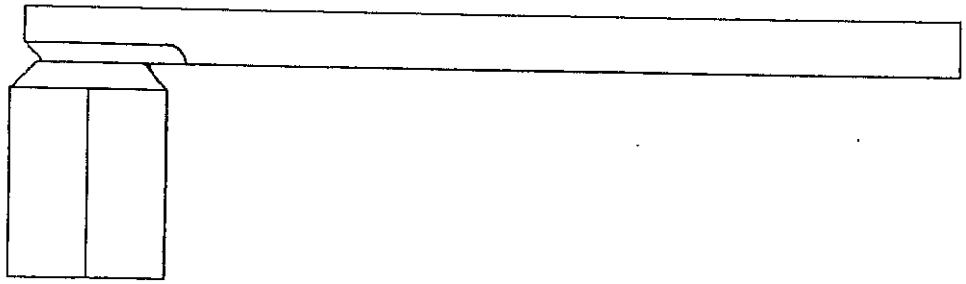
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	934PN09	1	Liner
2	923VP002-005	1	Piston Assy.
2-1	924VP002-005	Ref	Piston Rubber Assy.
2-2	901SH05-223	Ref	O-Ring
3	901SH13-1	1	Liner Seal

6-1/2" PISTON & LINER ASSY.

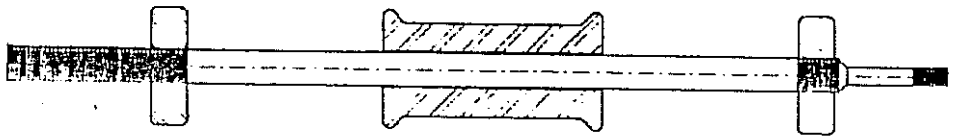
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	934PN10	1	Liner
2	923VP002-006	1	Piston Assy.
2-1	924VP002-006	Ref	Piston Rubber Assy.
2-2	901SH05-223	Ref	O-Ring
3	901SH13-4	1	Liner Seal

7" PISTON & LINER ASSY.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	934PN11	1	Liner
2	923VP002-007	1	Piston Assy.
2-1	924VP002-007	Ref	Piston Rubber Assy.
2-2	901SH05-223	Ref	O-Ring
3	901SH13-3	1	Liner Seal

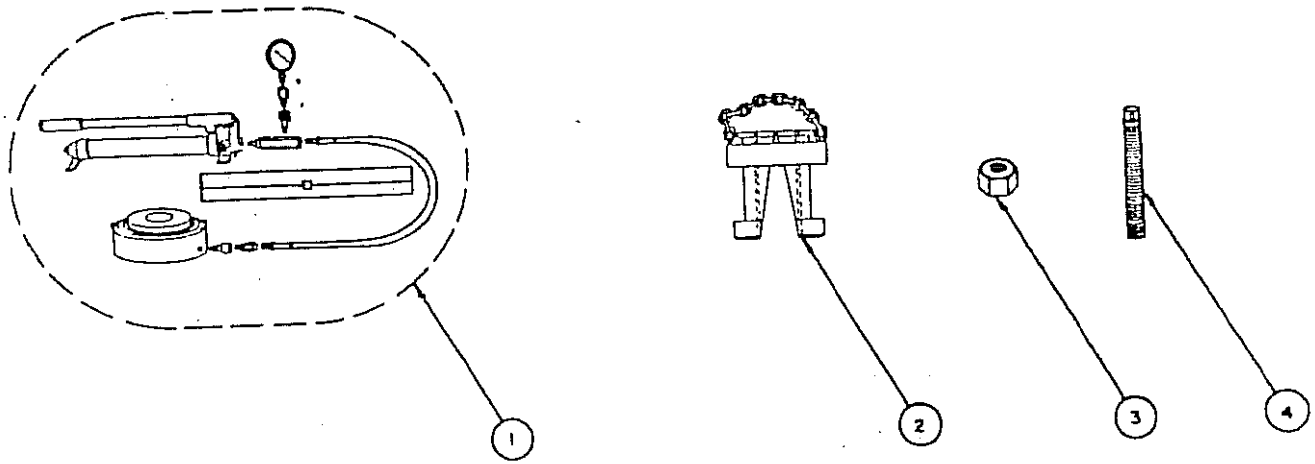


VALVE COVER RETAINER NUT HEX WRENCH
Part No. 342-8-89



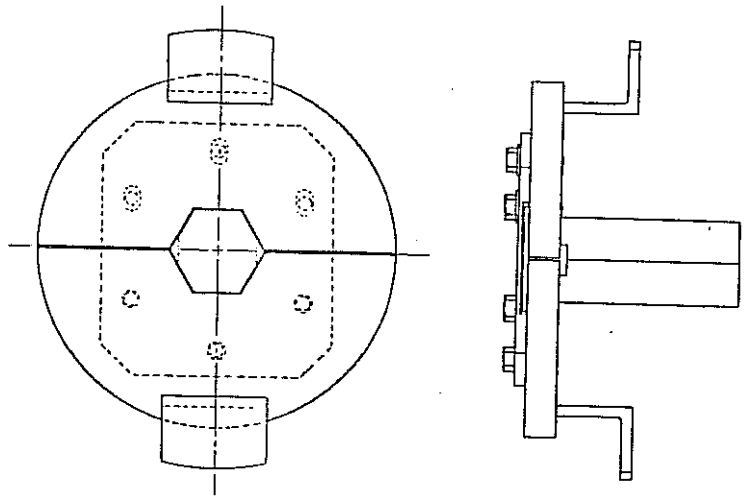
VALVE COVER PULLER
Part No. 590PN006

Valve Seat Puller (Optional)

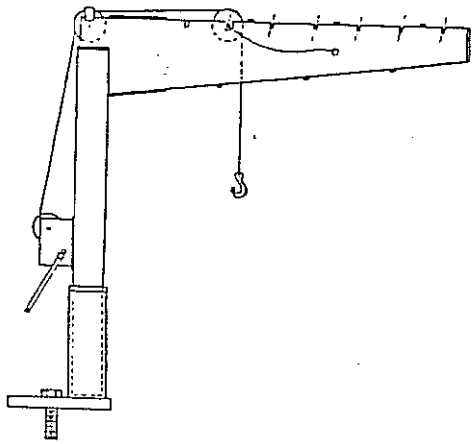


(1)	VALVE SEAT PULLER	-	590AD004
(2)	PULLER HEAD	-	590VP001-004 (4 Jaw)
		-	590VP002-002 (3 Jaw)
(3)	HEX NUT	-	458VP004-014
(4)	CENTER STEM STUD	-	450VP014-003

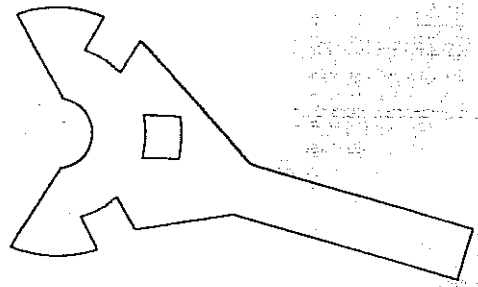
Maintenance Tools (Optional)



LINER ADAPTER WRENCH
Part No. 593AD007



HOIST
Part No. 590AD008



GLAND NUT WRENCH
Part No. 593TT003