

PARTS AND OPERATION MANUAL



Concrete Pump Model C-30HD

C-30HD SUGGESTED SPARE PARTS

C-30HD Concrete Pump 1 Units

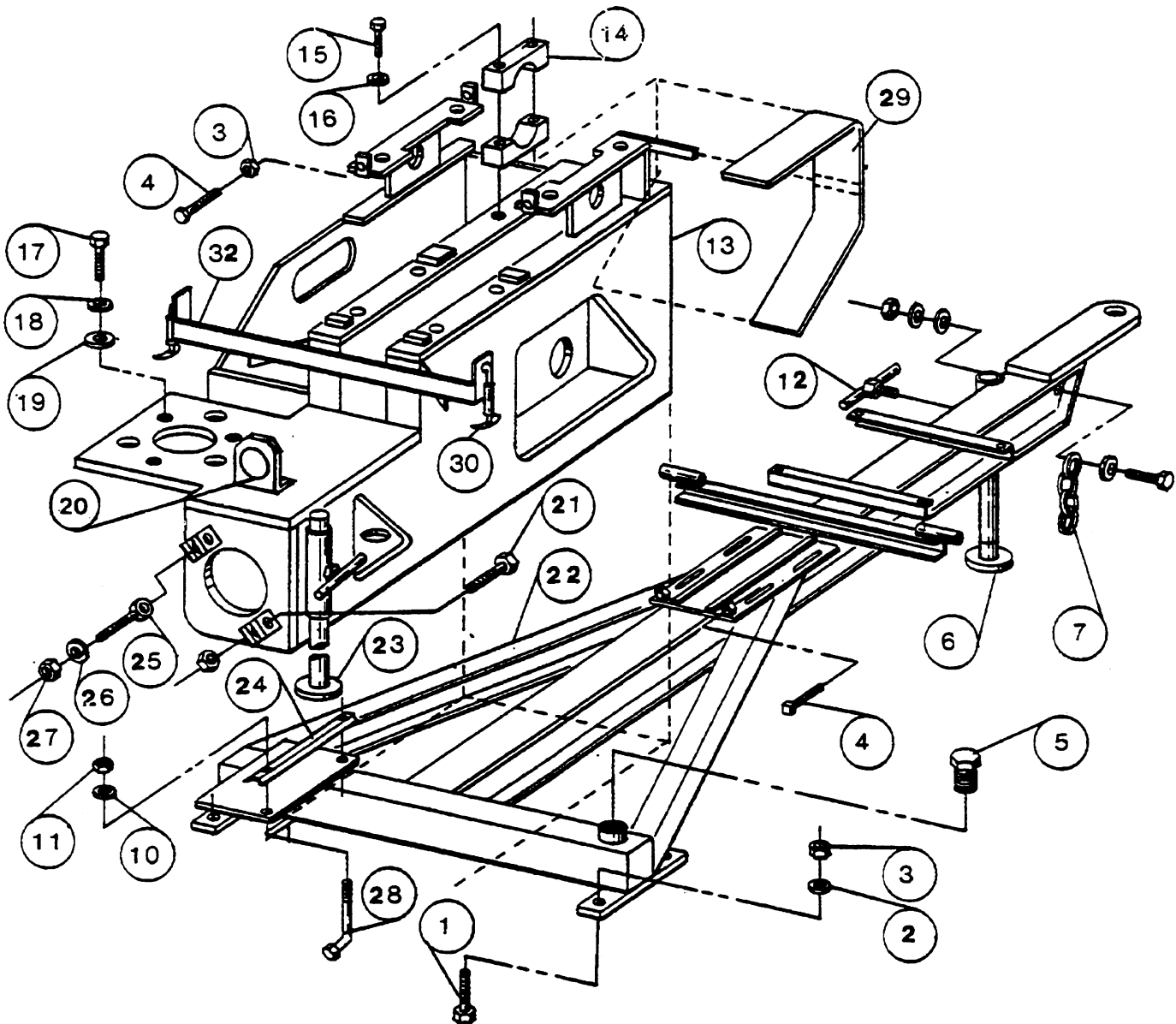
Qty.	P/N	Description
6	EM14904	PISTON CUP KITS
4	EM18804	4 1/2" STEEL BALL
4	EM14818	4" STEEL BALL
6	EM14903	BALL STOP PIN KIT
10	EM18801	O-RING MANIFOLD
1	EM14308	CHAIN
2	EM26313	HALF LINK
2	EM26314	MASTER LINK
1	EM14334	COMPENSATOR SPRING
2	EM14408	BRONZE RING
2	EM903092	CAM ROLLER BEARING
2	EM14315	V-BELT
2	EM14842	LOWER SEAT
2	EM14843	UPPER SEAT
2	EM26310	CLUTCH LINING
10	EM18409	O-RING
2	EM20763	FUEL FILTER
2	EM26746	OIL FILTER
2	EM20328TKIT	BEARING KIT
1	EM28004DD	REDUCER 3" X 2"
1	EM23946	3" ELBOW
2	EM28904	3" CLAMP
4	EM28904-1	3" GASKETS
1	EM14159	HOPPER SCREEN
1	EM14401	OIL PUMP
1	EM20709	SOLENOID
2	EM2074	THROTTLE LINKAGE

C-30HD Concrete Pump 3 Units

Qty.	P/N	Description
10	EM14904	PISTON CUP KITS
10	EM18804	4 1/2" STEEL
10	EM14818	4" STEEL BALL
12	EM14903	BALL STOP PIN KITS
25	EM18801	MANIFOLD O-RINGS
3	EM14308	CHAINS
10	EM26313	HALF LINK
10	EM26314	MASTER LINK
2	EM14334	COMPENSATOR SPRING
4	EM14408	BRONZE RING
2	EM903092	CAM ROLLER BEARING
4	EM14315	V-BELT
6	EM14842	LOWER SEAT
6	EM14843	UPPER SEAT
3	EM26310	CLUTCH LINING
20	EM18409	O-RING
3	EM207063	FUEL FILTER
3	EM26746	OIL FILTER
2	EM20328TKIT	BEARING KIT
2	EM28004DD	REDUCER 3" x 2"
2	EM23946	3" ELBOW
4	EM28904	3" CLAMP
10	EM28904-1	3" GASKET
2	EM14159	HOPPER SCREEN
2	EM14401	OIL PUMP
2	EM20709	SOLENOID
4	EM20714	THROTTLE LINKAGE
1	EM14300	CAM
1	EM14801	T-MANIFOLD
1	EM14819	Y-MANIFOLD
2	EM14335	PISTON ROD
1	EM14205P	PLASTIC FUEL TANK
1	EM26788	REMOTE SWITCH
1	EM903176	CONN. ROD BEARING
1	EM14305	CRANKSHAFT
2	EM14807	PUMP CYLINDER
2	EM18800	COMPENSATOR CYLINDER
1	EM14320A	CLUTCH
2	EM60HB	CLUTCH DISK

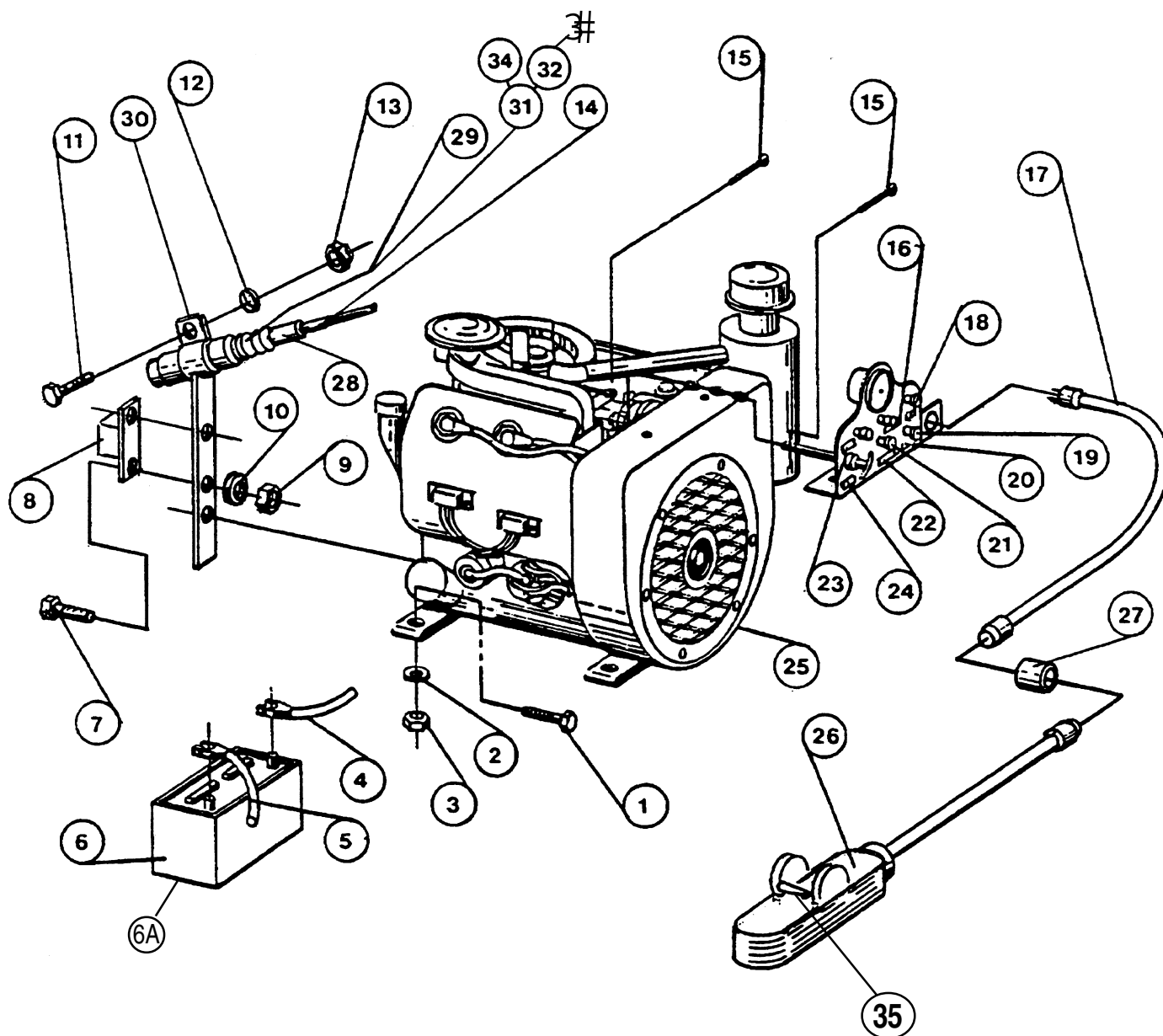
NOTE

Part number on this Suggested Spare Parts List may super cede/ replace the P/N shown in the text pages of this book.



C-30HD CONCRETE PUMP FRAME

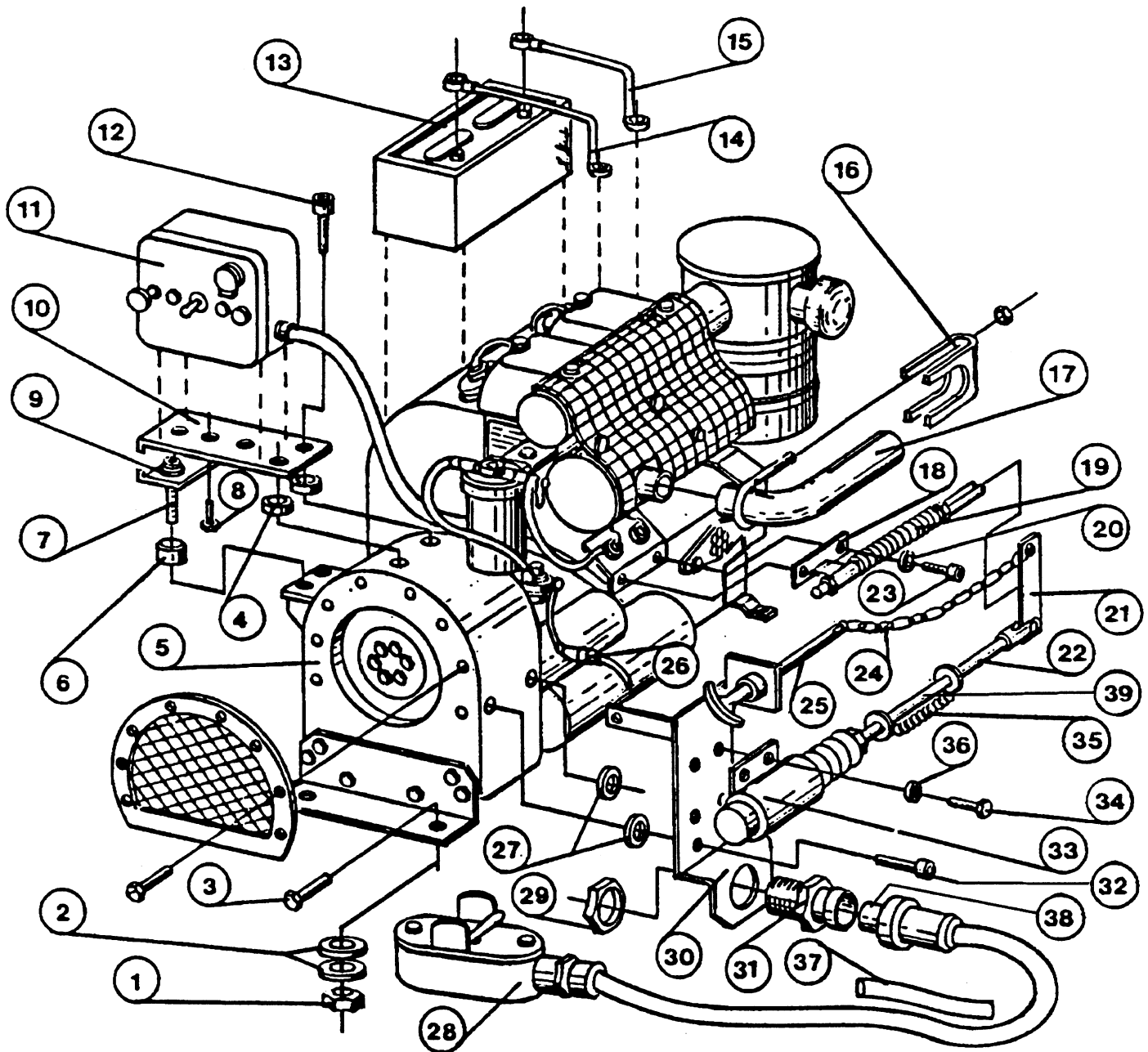
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM117	BOLT, HEX 1/2-13X2	4	
2	EM923346	WASHER, LOCK 1/2"	4	REPLACES EM606
3	EM406	NUT, HEX 1/2-13	4	
4	EM130	BOLT, SQ. HEAD 1/2-13X2 1/2"	5	
5	EM20349	OILER PLUG	1	
6	EM14137	FRONT STAND ASSY (OLD STYLE)	1	PRIOR TO: 12-31-96
6	EM25610	SWIVEL JACK STAND	1	S/N 970101 & ABOVE
6A	EM508530	SUPPORT SWIVEL JACK	1	S/N 970101 & ABOVE
7	EM20135	SAFETY CHAIN	1	
12	EM14138	TEE HANDLE ASSY	2	
13	EM14100	PUMP BOX ASSY	1	
14	EM14116	JOURNAL BLOCK	4	
15	EM963180	BOLT, HEX 3/4-10X5	4	REPLACES EM131
16	EM923350	WASHER, LOCK 3/4"	4	
17	EM104	BOLT, HEX 5/8-11X2	3	
18	EM602	WASHER, LOCK 5/8	3	
19	EM620	WASHER, WILLIAM 5/8	3	
20	EM26536	TAIL LIGHT	1	
21	EM963614	BOLT, HEX 3/4-10X3	2	
22	EM14142	FRAME ASSEMBLY	1	
23	EM14136	REAR STAND ASSY	1	
24	EM14711	BATTERY HOLD DOWN	1	
25	EM14165	WILLIAMS RE9B, 3/4X4	2	
26	EM619	WASHER, WILLIAM 3/4"	2	
27	EM968446	NUT, HEX 3/4-10	4	
28	EM145	BOLT, HEX 1/4-20X11	2	
29	EM14119	CHAIN GUARD	1	
30	EM929028	HOOD LATCH	2	REPLACES EM20107-1
32	EM14120	HOOD REST ASSY	1	
	EM26117	LUBE PLATE KIT	1	NOTE: THIS KIT IS USED TO ENCLOSE THE FRAME TO CREATE A SPLASH TYPE LUBRICATION SYSTEM. (CONTACT FACTORY FOR DETAILS)



C-30HD — GASOLINE ENGINE CONTROL

C-30HD CONCRETE PUMP GASOLINE ENGINE

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	EM147	BOLT, 1/2-13X2.1/2"	4	
2	EM923346	WASHER, LOCK 1/2"	4	REPLACES EM606
3	EM406	NUT, HEX 1/2-13"	4	
4	EM14705	POSITIVE CABLE	1	
5	EM20720	NEGATIVE CABLE	1	
6	EM14710	BATTERY 12V	1	
6A	EM509755	BATTERY BOX	1	S/N ABOVE 980401
7	EM140	BOLT, 1/4-20X5/8"	2	
8	EM20705	RELAY	1	
9	EM968435	HEX NUT, 1/4-20"	2	REPLACES EM400
10	EM600	WASHER, LOCK 1/4"	2	
11	EM123	BOLT, 3/8-16X1.1/4"	1	
12	EM612	WASHER, LOCK 3/8"	1	
13	EM968009	NUT, HEX 3/8-16	1	
14	EM20714	LINKAGE	1	
15	EM924028	PIN, COTTER 3/32X7/8"	2	REPLACES EM707
16	EM979	DECAL, STARTER	1	
17	EM26792	100 FT. EXTENSION	1	
18	EM977	DECAL, CHOKE	1	
19	EM40711	3 WAY SWITCH	1	
20	EM946	DECAL, REMOTE CONTROL	1	
21	EM26736	STARTER	1	
22	EM978	DECAL, TAIL LIGHT	1	
23	EM980	DECAL, THROTTLE	1	
24	EM976	DECAL, IGNITION	1	
25	EM20701	ENGINE 30 HP WISE VH4D	1	
26	EM26788	REMOTE CORD ASSY	1	
27	EM26793	ADAPTER	1	
28	EM20713	EXTENSION	1	
29*	EM20709	SOLENOID	1	
30	EM20704	CLAMP BRACKET ASSY	1	
	EM14728	SOLENOID ASSY COMPLETE	1	INCLS. ITEMS W/*
31*	EM20711	SOLENOID SPRING	1	
32*	EM20710	SOLENOID PLUNGER	1	
33*	EM20709-2	RUBBER BOOT	1	
34*	EM456	NUT, NYLOCK 5-40	1	
35	EM16754	SWITCH	1	

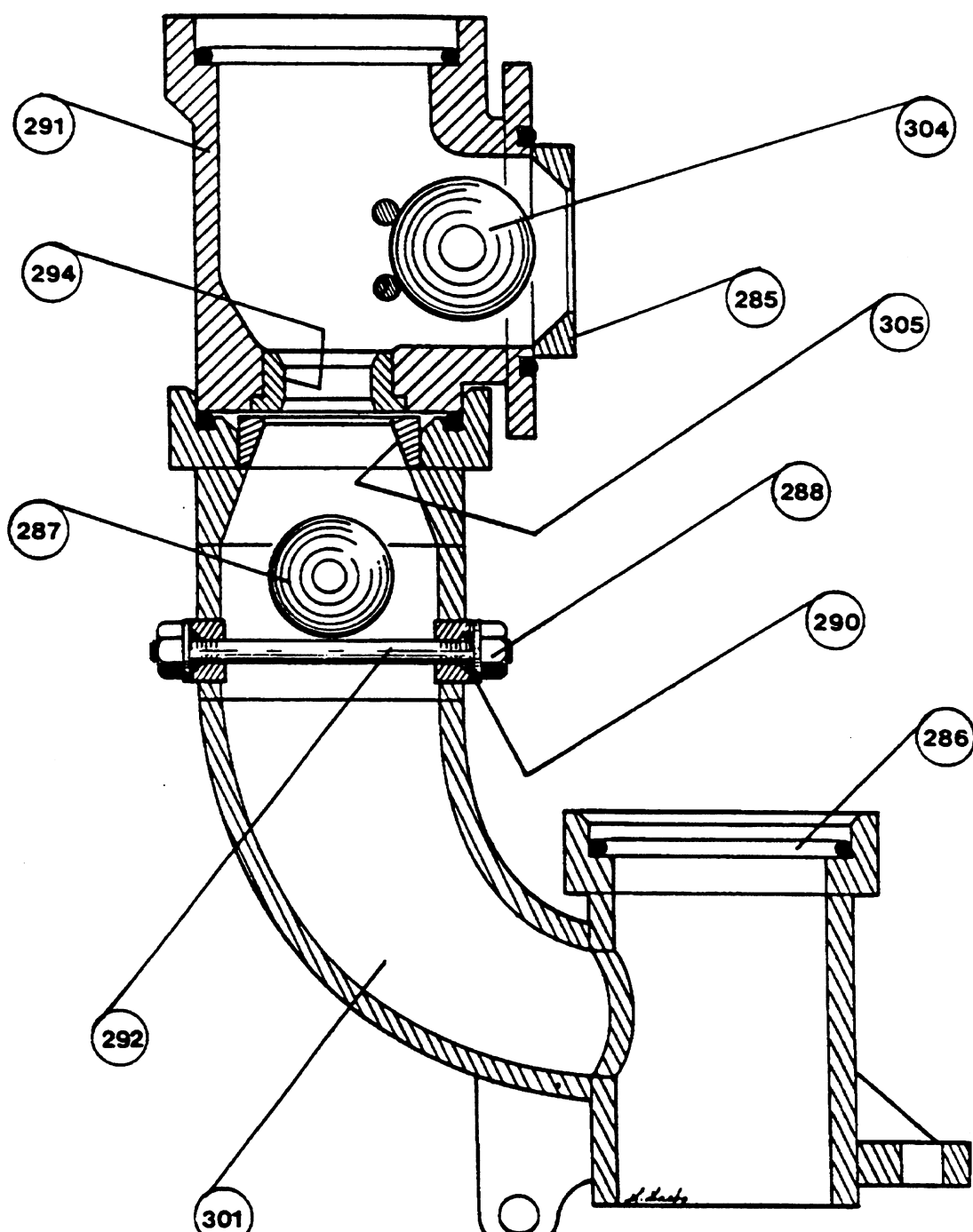


C-30HD — DIESEL ENGINE CONTROL

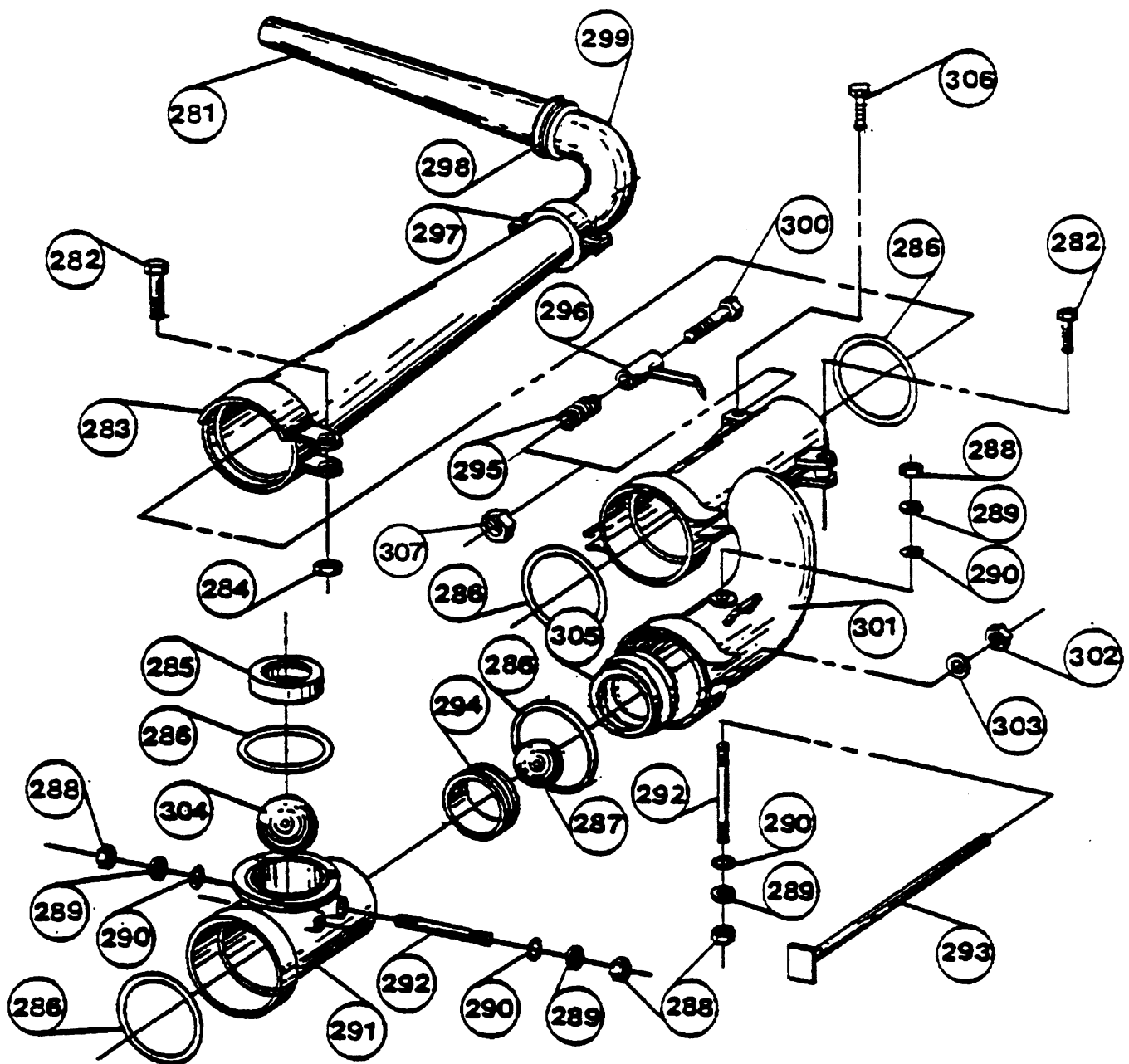
C-30HD CONCRETE PUMP
DIESEL ENGINE CONTROL-C-30HD

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	EM968011	NUT, LOCK 1/2-13	4	REPLACES EM404
2	EM923035	WASHER, FLAT 1/2"	4	REPLACES EM609
3	EM963692	BOLT, 1/2-13X1.1/2"	4	REPLACES EM110
4	EM621	WASHER, WILLIAM 1/2"	2	
5	EM20733	DIESEL ENGINE, HATZ Z790	1	
6	EM620	WASHER, PLAIN 5/8	4	REPLACES EM14347
7	EM176	BOLT SOCKET HD, 3/8-16X1.1/4"	2	
8	EM138	BOLT, HEX 3/8-16X1	3	
9	EM612	WASHER, LOCK 3/8"	2	
10	EM14602	BRACKET ASSY	1	
11	EM20791	CONTROL BOX	1	
12	EM175	BOLT SOCKET HD, 3/8-16X1.1/4	2	
13	EM20719	BATTERY 12V	1	
14	EM16707	GROUND CABLE	1	
15	EM20721	POSITIVE CABLE	1	
16	EM20735	EXHAUST CLAMP	1	REPLACES EM176847
17	EM20734	EXHAUST ELBOW	1	
18	EM20790	LINKAGE ASSY	1	
19	EM20790-5	SPRING	1	
20	EM601	LOCK WASHER	2	
21	EM20761	YOKE BAR	1	
22	EM20758-1	YOKE SUPPORT	1	
23	EM272	BOLT, ALLEN HEAD 8X30MM	2	
24	EM20731	CONTROL CHAIN		
25	EM26732	ENGINE CONTROL	1	REPLACES EM20730
26	EM20763	INLINE FILTER	1	
27	EM923035	WASHER, FLAT 1/2"	2	REPLACES EM609
28	EM26788	REMOTE CONTROL	1	
29	EM940062	NUT, LOCK 1/2-14	1	REPLACES EM26789-3
30	EM20727	CONTROL BRKT.	1	
31	EM26789	RECEPTACLE	1	
32	EM146	BOLT, ALLEN HEAD 12X25MM S.H.	2	
33	EM20709	SOLENOID	1	
34	EM963550	BOLT, 1/4-20X3/4	4	REPLACES EM112
35	EM16730	RETURN SPRING	1	REPLACES EM20728
36	EM600	WASHER, LOCK 1/4	4	
37	EM26792	CORD ASSY, 100 FT.	1	
38	EM26793	ADAPTER FOR CORD	1	
39	EM20760	ROD	1	

NOTE: EffectiveS/N971001
The throttle control has been updated
— Consult factory for part numbers.



Note: EXPLODED VIEW OF
PAGES 34 & 35



C-30HD — CONCRETE DELIVERY

C-30HD CONCRETE PUMP CONCRETE DELIVERY

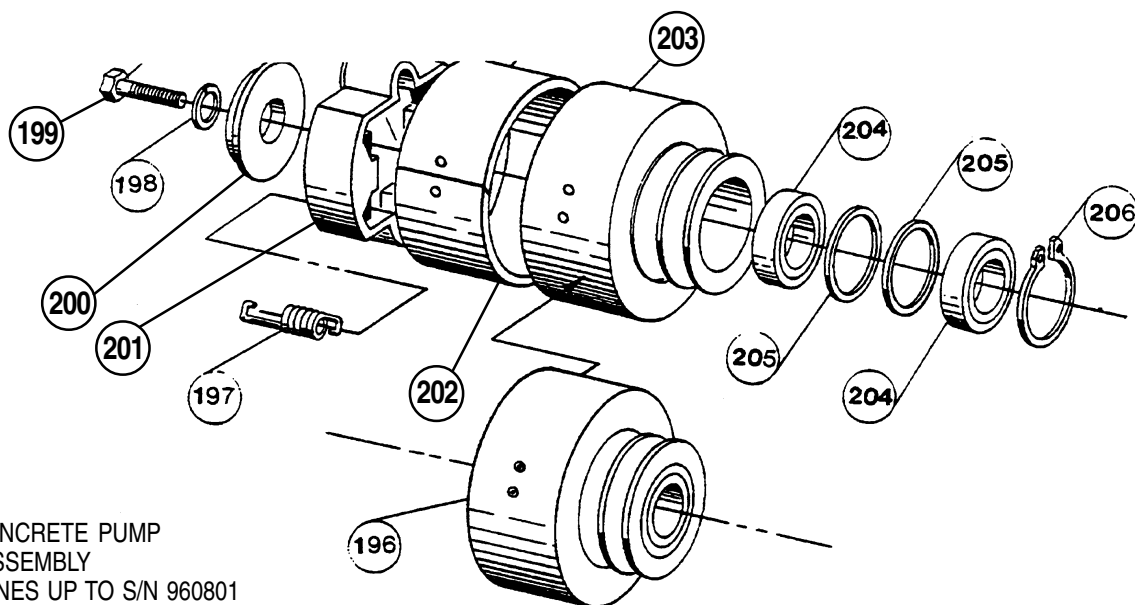
NO.	PART NO.	PART NAME	QTY.	REMARKS
281	EM23837	REDUCER, 3X2	1	PRIOR TO JULY 1, 1990
281	EM28004-DD	REDUCER, 3X2	1	AFTER JULY 1, 1990
282	EM963180	BOLT, 3/4-10X5	2	REPLACES EM131
283	EM14809	EXHAUST GATE	1	PRIOR TO JULY 1, 1990
283	EM14850	EXHAUST GATE	1	AFTER JULY 1, 1990
284	EM968446	NUT, HEX 3/4-10	2	REPLACES EM407
285		BALL INSERT	1	SEE NOTE
286	EM18801	"O" RING	5	
287	EM14818	STEEL BALL, 4"	1	
288	EM968266	NUT, JAM 3/4-16	6	REPLACES EM421
289	EM618	WASHER, SPECIAL 3/4	6	
290	EM18409	"O" RING	6	
291	EM14801	PRIMARY VALVE	1	
292	EM136	STUD, 3/4-16X8	3	
293	EM137	T-BOLT, 3/4-10X14	2	
294	EM14817	VALVE SEAT	1	
295	EM14810	JOLTER SPRING	1	
296	EM14845	CLAMP ARM	1	
297	EM23839	3" COUPLING "B" VIC	1	PRIOR TO JULY 1, 1990
297	EM28904	3" COUPLING "B" HD	1	AFTER JULY 1, 1990
298	EM23840	3" COUPLING S/J VIC	1	PRIOR TO JULY 1, 1990
298	EM28904	3" COUPLING "B" HD	1	AFTER JULY 1, 1990
299	EM23838	ELBOW, 3"-90°	1	PRIOR TO JULY 1, 1990
299	EM23946	ELBOW, 3"-90°	1	AFTER JULY 1, 1990
300	EM135	BOLT, 1-1/4-12X6	1	
301	EM14819A	MANIFOLD ASSY	1	
302	EM968446	NUT, HEX 3/4-10	2	REPLACES EM407
303	EM619	WASHER, WILLIAM 3/4	2	
304	EM18804	STEEL BALL, 4 1/2"	1	
305		BALL INSERT	1	SEE NOTES
306	EM160	BOLT, 3/8-16X3/4	1	
307	EM451	NUT, LOCK 1-1/4-12	1	

Not Shown in diagram: 4" Urethane Ball (P/N EM26817); 4" Seat (P/N EM26816)

Notes on item #285 — Machines prior to July 1, 1990 use P/N 18803 Ball Insert; On machines after July 1, 1990, P/N 18803 was replaced by the Duraseat P/N 14843. This new seat is more durable and can be used on older units.

Notes on item #305 — Machines prior to July 1, 1990 use P/N 18806 insert (used in conjunction with 14817 seat); On machines after July 1, 1990, these parts are replaced by 14842 Duraseat.

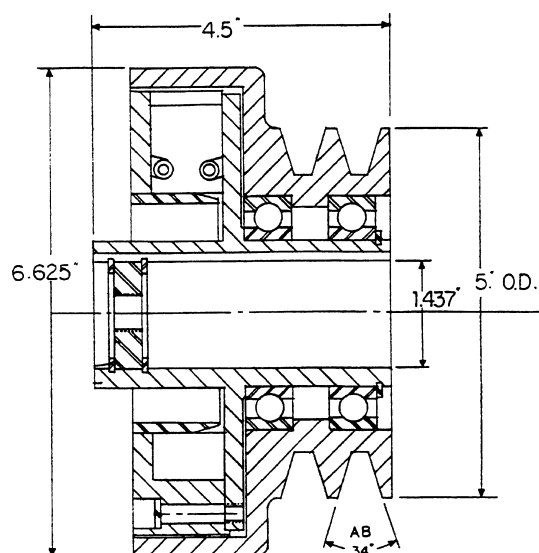
C-30HD — CLUTCH ASSEMBLY — ALL MACHINES PRIOR TO S/N 960801 (August 1996)



C-30HD CONCRETE PUMP
CLUTCH ASSEMBLY
ALL MACHINES UP TO S/N 960801

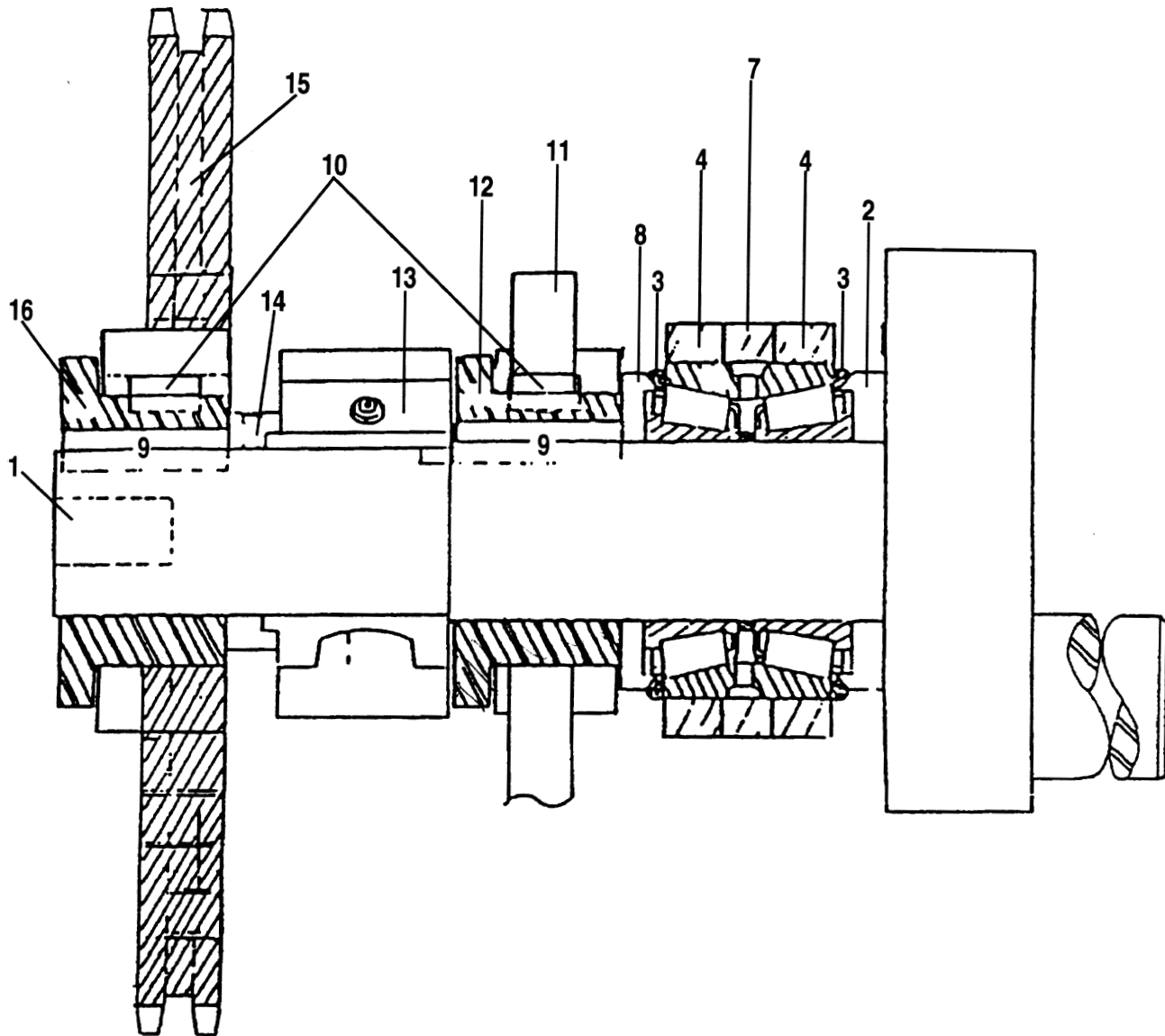
NO.	PART NO.	PART NAME	QTY.	REMARKS
196	EM14320	CLUTCH ASSEMBLY (8" DIA)	1	INCLS. ALL ITEMS W/*
197*	EM918050	CLUTCH SPRING	2	REPLACES EM26309
198*	EM923346	1/2 LOCK WASHER	1	REPLACES EM606
199*	EM963564	1/2-13X1 1/4 HEX BOLT	1	REPLACES EM139
200*	EM628	SPECIAL WASHER	1	
201*	EM26321	ROTOR ASSEMBLY	1	
202*	EM26310	CLUTCH LINING	1	
203*	EM26322	CLUTCH HOUSING	1	
204*	EM902204	CLUTCH BEARING	2	REPLACES EM26311
205*	EM926066	RETAINING RING	2	REPLACES EM801
206*	EM926053	RETAINING RING	1	REPLACES EM800

C-30HD — CLUTCH ASSEMBLY — ALL MACHINES S/N 960801 THRU 980400 (August 1996)



Note: CLUTCH ASSY (BLM 6") P/N
EM14320A HAS BEEN REPLACED
BY CLUTCH ASSY P/N EM14320
(8" CLUTCH)

THE CLUTCH PACK FOR 6"
CLUTCH IS STILL AVAILABLE
UNDER P/N EM60HB

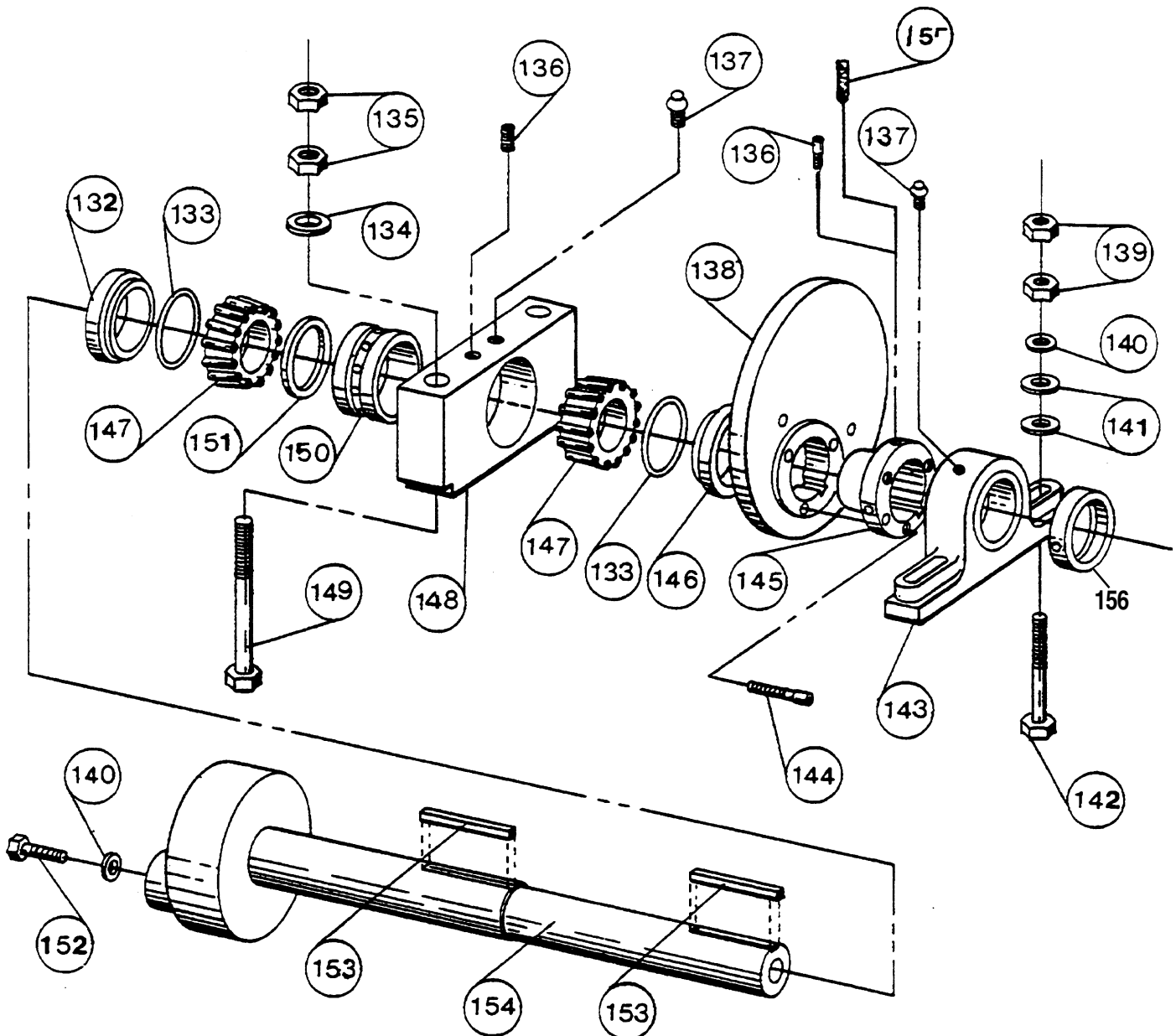


C-30HD — CRANKSHAFT ASSEMBLY

C-30HD CONCRETE PUMP CRANKSHAFT ASSEMBLY

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM14305	CRANKSHAFT	1	
2	EM14322	SPACER	1	
3	EM14326	"O" RING	2	
4	EM14325	BEARING CONE	2	
5	EM14323	BEARING CONE SPACER	1	
6	EM14324	BEARING CUP	1	
7	EM14303	BEARING BLOCK	1	
8	EM14302	CAM BUSHING SPACER	1	
9	EM14306	CRANKSHAFT KEY	2	
10		KEY	1	INCLUDED W/ ITEMS 12 +16
11	EM14300	CAM WELDMENT	1	
12	EM14301	CAM BUSHING	1	
13	EM14304	CAM BEARING	1	
14	EM30190	SET COLLAR	1	
15	EM14307	SPROCKET, 60 TOOTH	1	
16	EM14309	BUSHING	1	

C-30HD — CRANKSHAFT ASSEMBLY

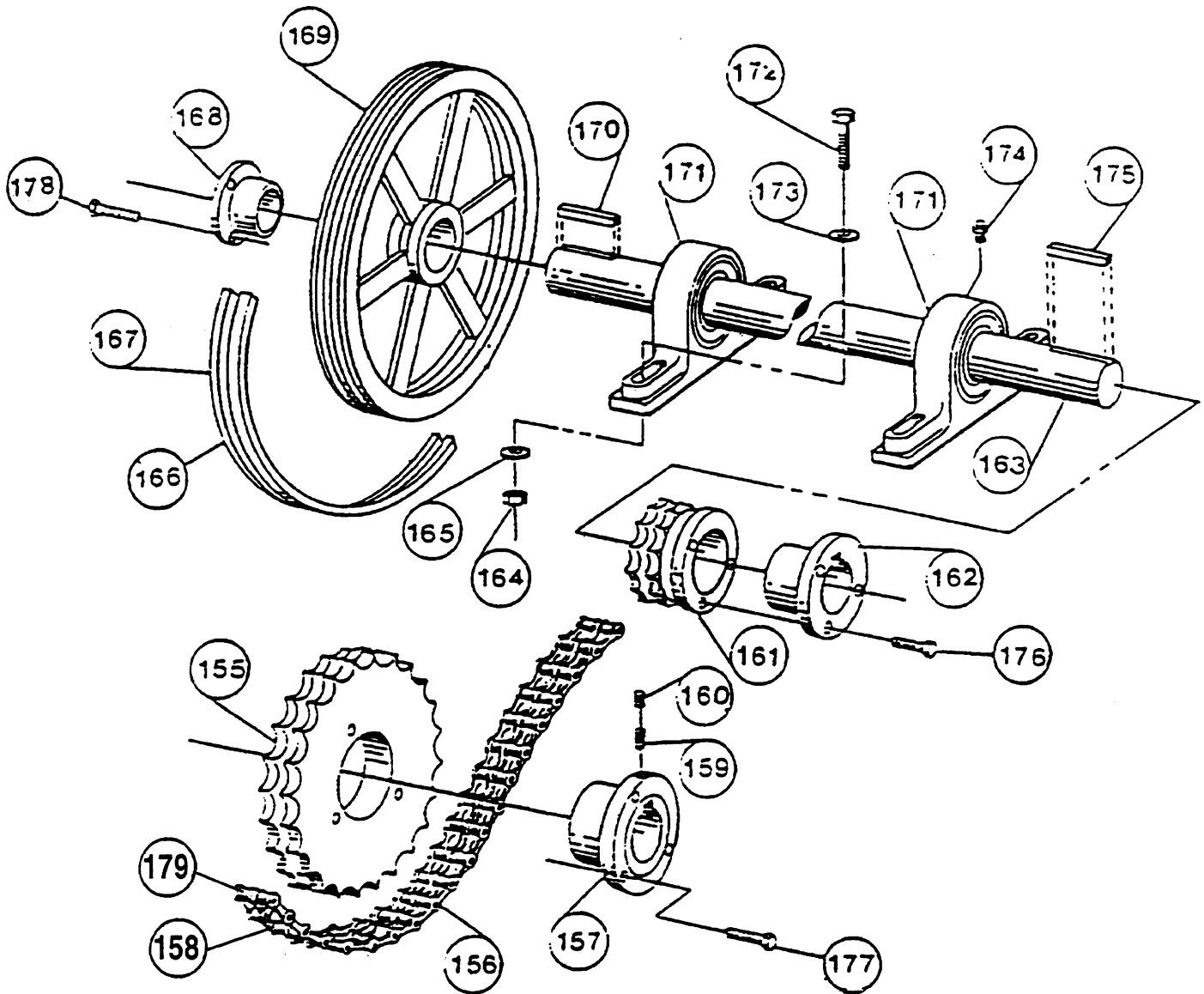


C-30HD — CRANKSHAFT ASSEMBLY

C-30HD CONCRETE PUMP CRANKSHAFT ASSEMBLY

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
132	EM14322	SPACER	1	
133	EM14326	"O" RING	2	
134	EM923350	LOCK WASHER	2	REPLACES EM610
135	EM968446	NUT, HEX 3/4-10	4	REPLACES EM407
136	EM702	SCREW, SET HALF DOG POINT 3/8-16X3/4	2	
137	EM916001	LUBE FITTING, 1/8-27 NPT	2	REPLACES EM16179
138	EM14300	CAM WELDMENT	1	
139	EM968013	NUT, HEX 5/8-11	4	REPLACES EM419
140	EM923348	WASHER, LOCK 5/8	3	REPLACES EM602
141	EM620	WASHER, WILLIAMS 5/8	4	
142	EM128	BOLT, HEX 5/8-11X4	2	
143	EM14304	CAM BEARING	1	
144	EM175	BOLT, SOC HD 3/8-16X1 1/4	1	
145	EM14301	CAM BUSHING	1	
146	EM14302	CAM BUSHING SPACER	1	
147	EM14325	BEARING CONE	2	
148	EM14303	BEARING BLOCK	1	
149	EM129	BOLT, HEX 3/4-10X8 1/2	2	
150	EM14324	BEARING CUP	1	
151	EM14323	BEARING CONE SPACER	1	
152	EM104	BOLT, HEX 5/8-11X2	1	
153	EM14306	CRANKSHAFT KEY	2	
154	EM14305	CRANKSHAFT	1	
155	EM703	SCREW, SET 3/8-16X3/8	2	
156	EM30139	SET COLLAR	1	

C-30HD — COUNTER SHAFT ASSEMBLY

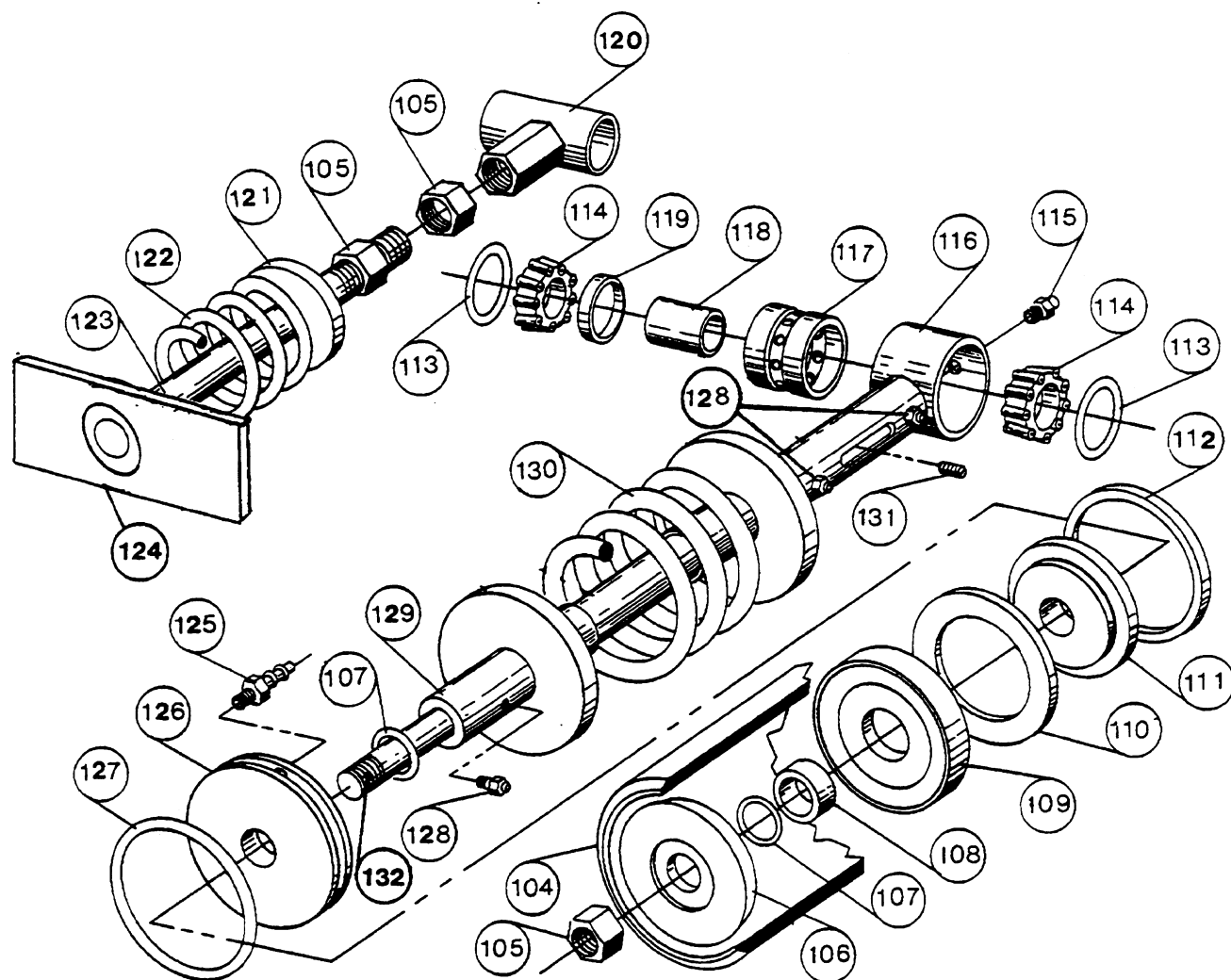


C-30HD — COUNTER SHAFT ASSEMBLY

C-30HD CONCRETE PUMP COUNTER SHAFT ASSEMBLY

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
155	EM14307	SPROCKET, 60 TOOTH	1	
156	EM14308	CHAIN	1	
157	EM14309	BUSHING	1	
158	EM26313	OFFSET LINK	1	
159	EM702	SCREW, SET 3/8-16X3/4	1	
160	EM703	SCREW, SET 3/8-16X3/8	1	
161	EM14318	SPROCKET, 13 TOOTH	1	
161	EM14319	BUSHING	1	
163	EM14312	COUNTER SHAFT	1	
164	EM968011	NUT, HEX 1/2-13	4	REPLACES EM404
165	EM923346	WASHER, LOCK 1/2	4	REPLACES EM606
166	EM14315	BELT, BP90 (GASOLINE)	1	
167	EM900127	BELT, B87 (DIESEL)	2	REPLACES EM14321
168	EM14314	BUSHING	1	
169	EM14313	PULLEY	1	
170	EM14316	KEY	1	
171	EM14311	CAM BEARING	2	
172	EM124	BOLT, HEX 1/2-13X4	4	
173	EM621	WASHER, WILLIAM 1/2	4	
174	EM916001	LUBE FITTING	2	REPLACES EM16179
175	EM14317	KEY	1	
176	EM161	BOLT, HEX 5/16-18X1	3	
177	EM492378	BOLT, HEX 3/8-16X1 3/4	3	REPLACES EM177
178	EM123	BOLT, HEX 3/8-16X1 1/4	3	
179	EM26314	CONNECTING LINK	1	

C-30HD — COMPENSATOR PISTON ROD

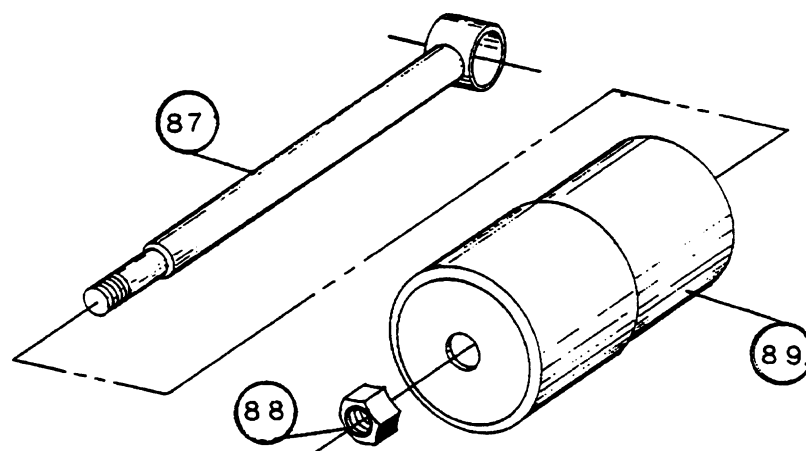
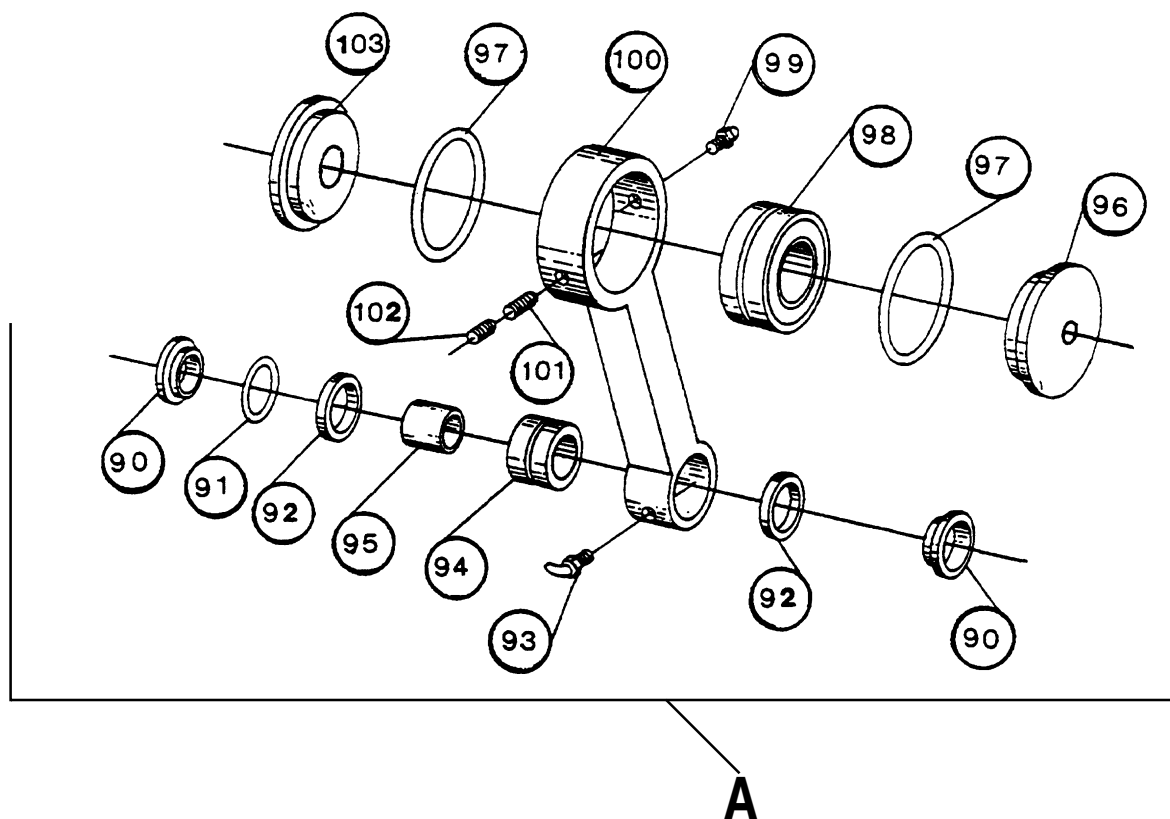


C-30HD — COMPENSATOR PISTON ROD

C-30HD CONCRETE PUMP COMPENSATOR PISTON ROD

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
104	EM18800	PUMPING CYLINDER	1	
105	EM968446	NUT, HEX 3/4-10	4	REPLACES EM407
106	EM14413	FACE PLATE	2	
107	EM18409	"O" RING	4	
108	EM14412	BUSHING	2	
109	EM14411	PISTON CUP	2	
110	EM14408	BRONZE RING	2	
111	EM14410	RING & FELT HOLDER	2	
112	EM16493	FELT RING	2	
113	EM20816	"O" RING	2	
114	EM903162	BEARING CONE	4	REPLACES EM20815
115	EM916001	LUBE FITTING	2	REPLACES EM16179
116	EM14806	PISTON GUIDE	1	
117	EM903163	BEARING CUP	2	REPLACES EM20812
118	EM20814	BUSHING	2	
119	EM20813	SPACER	2	
120	EM14805	ROD END	1	
121	EM14331	BACKING PLATE	1	
122	EM14333	RETURN SPRING	1	
123	EM14332	GUIDE ROD	1	
124	EM14105	ANCHOR PLATE	1	
125	EM20412	OILER FITTING MINI-BARB	2	
126	EM14409	OILER PLATE	2	
127	EM14407	"O" RING	2	
128	EM916001	LUBE FITTING	3	REPLACES EM16179
129	EM14336	PISTON GUIDE	1	
130	EM14334	COMPENSATOR SPRING	1	
131	EM704	PIN, LG SPIRAL 1/2X2	1	
132	EM14335	PISTON ROD	1	

C-30HD — CONNECTING ROD ASSEMBLY 20328 (OLD STYLE)

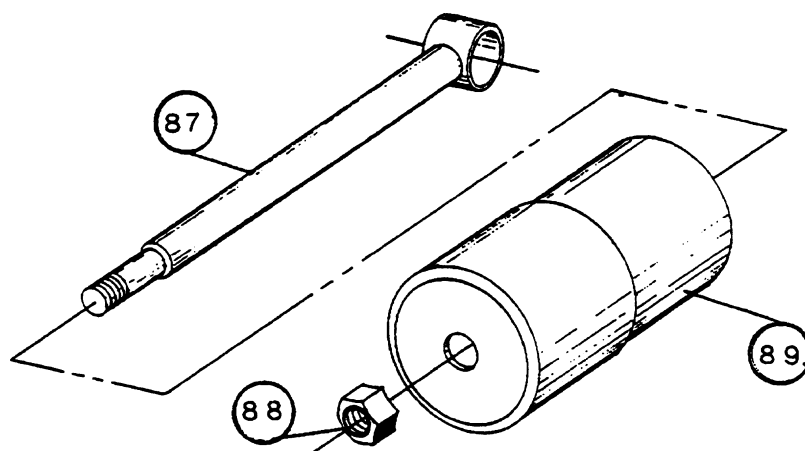
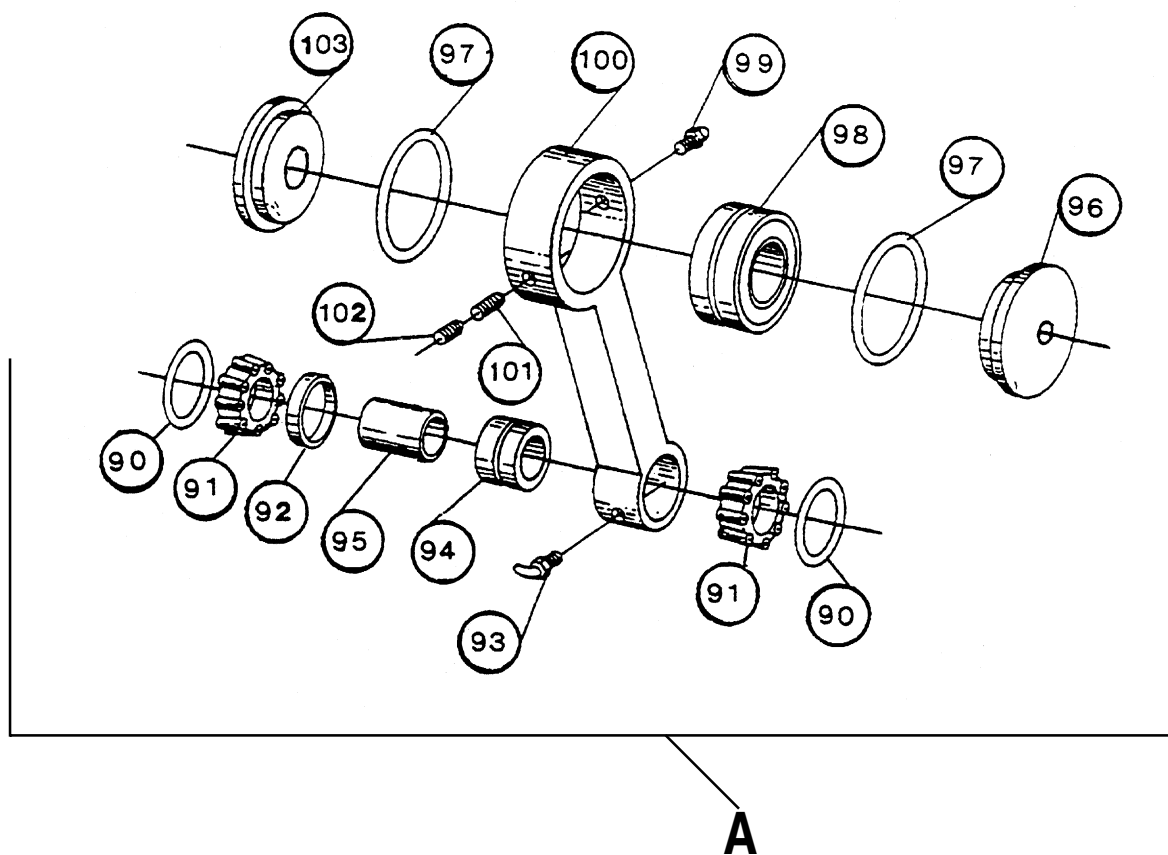


C-30HD — CONNECTING ROD ASSEMBLY 20328 (OLD STYLE)

C-30HD CONCRETE PUMP
CONNECTING ROD ASSEMBLY EM20328 (OLD STYLE)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
A	EM20328	CONNECTING ROD ASSY	1	INCLS. ALL ITEMS W/*
87	EM14808	PISTON ROD WELDMENT	1	
88	EM968446	3/4-10 HEX NUT	1	REPLACES EM407
89	EM14807	PUMPING CYLINDER	1	
90*	EM402150	SPACER	2	REPLACES EM20329
91*	EM2330	O-RING	2	
92*	EM402999	SPACER	2	REPLACES EM20331
93*	EM916004	LUBE FITTING	1	REPLACES EM16153
94*	EM903175	BEARING	1	REPLACES EM20333
95*	EM402149	BUSHING	1	REPLACES EM20332
96*	EM402996	SPACER	1	REPLACES EM20335
97*	EM20336	"O" RING	2	
98*	EM903176	BEARING	1	REPLACES EM20337
99*	EM916001	LUBE FITTING	1	REPLACES EM16179
100*	EM20328-1	CONNECTING ROD	1	
101	EM703	SCREW, SET LG CUP 3/8-16X3/8	2	
103	EM20338	SPACER	1	

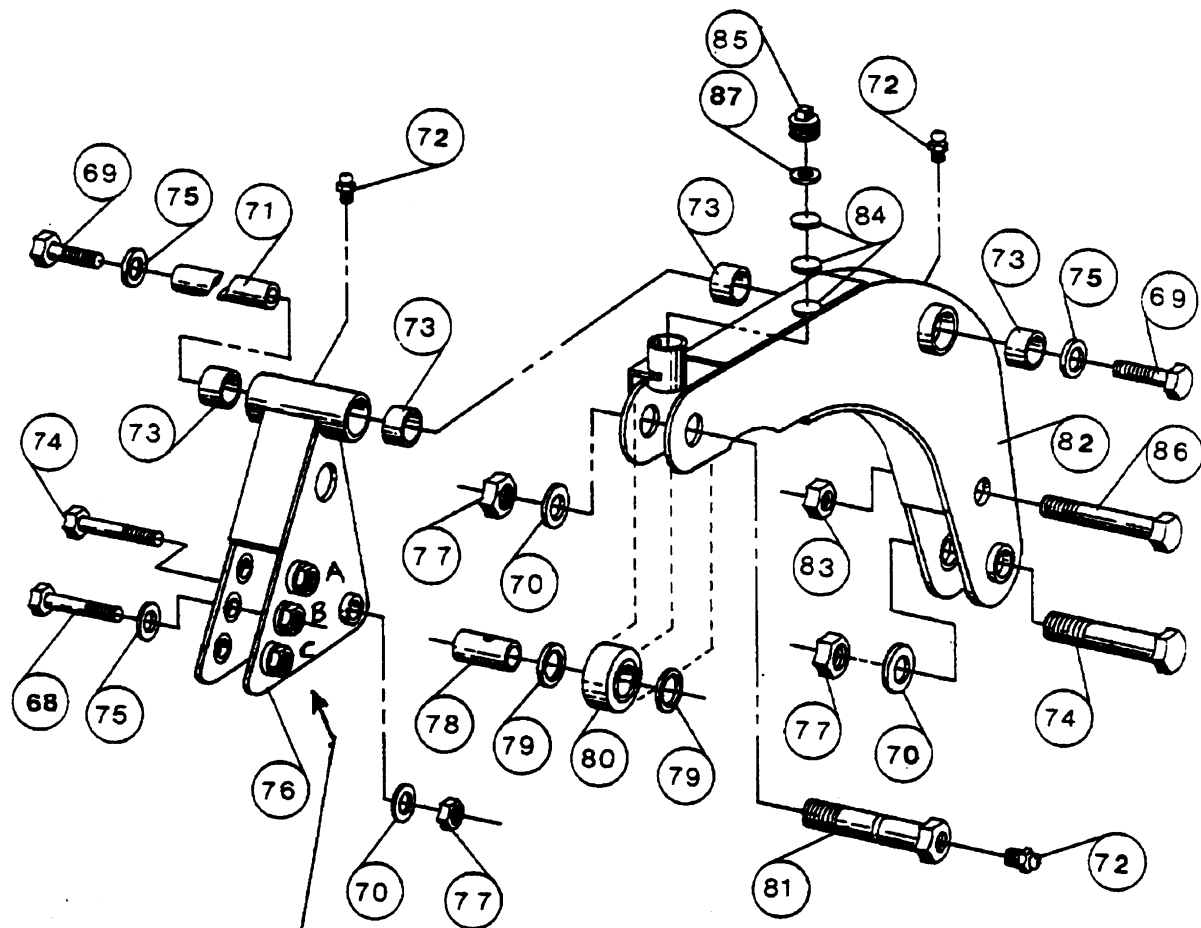
C-30HD — CONNECTING ROD ASSEMBLY 20328T (NEW STYLE)



C-30HD — CONNECTING ROD ASSEMBLY 20328T (NEW STYLE)

C-30HD CONCRETE PUMP
CONNECTING ROD ASSEMBLY EM20328T (NEW STYLE)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
A	EM20328T	CONNECTING ROD ASSY	1	INCLS. ALL ITEMS W/★
87	EM14808	PISTON ROD WELDMENT	1	
88	EM968446	NUT, HEX 3/4-10	1	REPLACES EM407
89	EM14807	PUMPING CYLINDER	1	
90★	EM20816	O-RING	2	
91★	EM903162	BEARING CONE	2	REPLACES EM20815
92★	EM20813	SPACER	1	
93★	EM916004	LUBE FITTING	1	REPLACES EM16153
94★	EM903175	BEARING CUP	1	REPLACES EM20333
95★	EM20814	BUSHING	1	
96★	EM402996	SPACER	1	REPLACES EM20335
97★	EM20336	"O" RING	2	
98★	EM903176	BEARING	1	REPLACES EM20337
99★	EM916001	LUBE FITTING	1	REPLACES EM16179
100★	EM20364	CONNECTING ROD	1	
101	EM703	SCREW, SET, LG CUP 3/8-16X3/8	1	
102	EM702	SCREW, SET, POG POINT 3/8-16X3/8	1	
103	EM20338	SPACER	1	



Note:

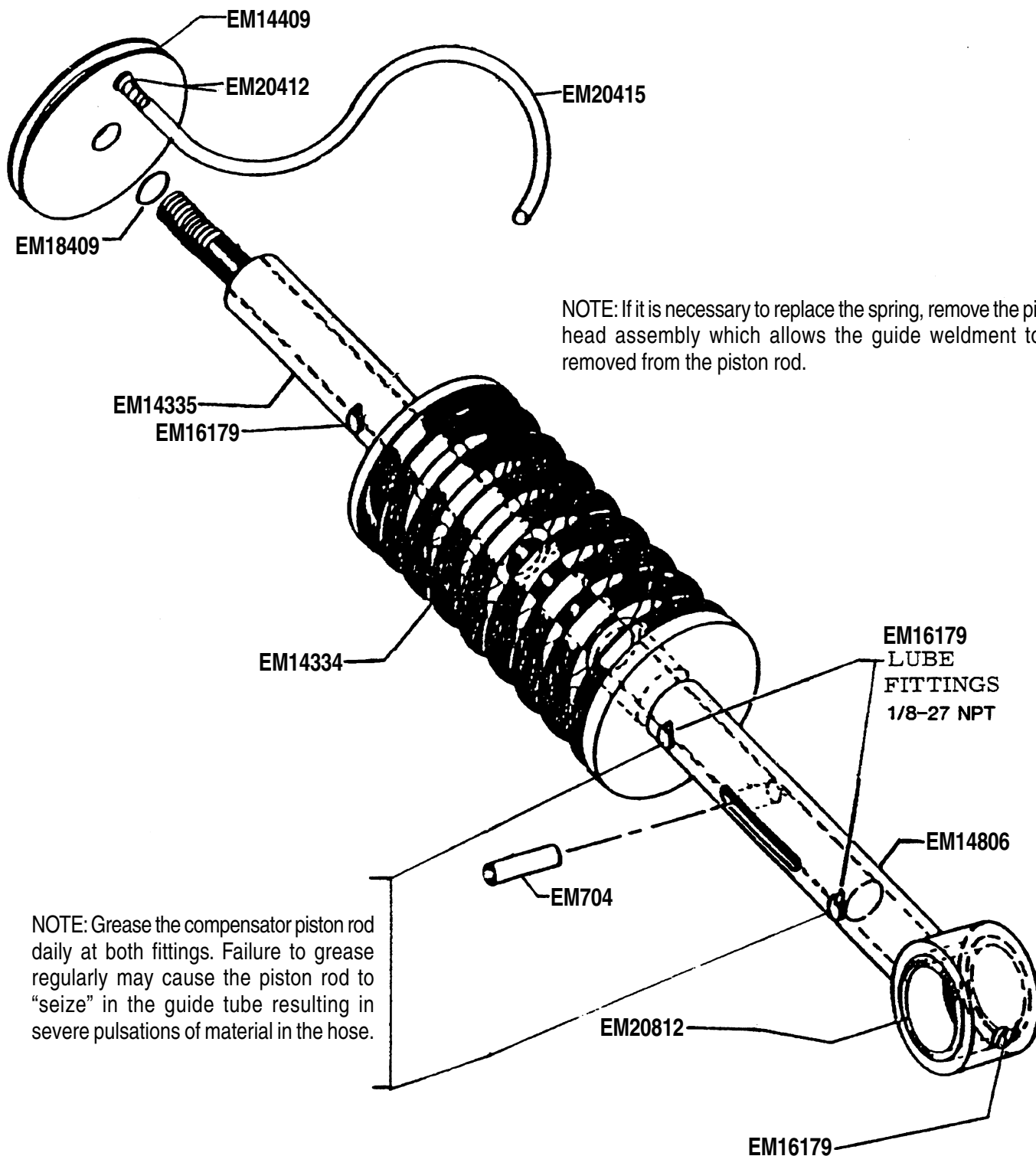
- A. Long stroke setting
- B. Standard setting
- C. Short stroke setting

C-30HD — ROCKER ASSEMBLY

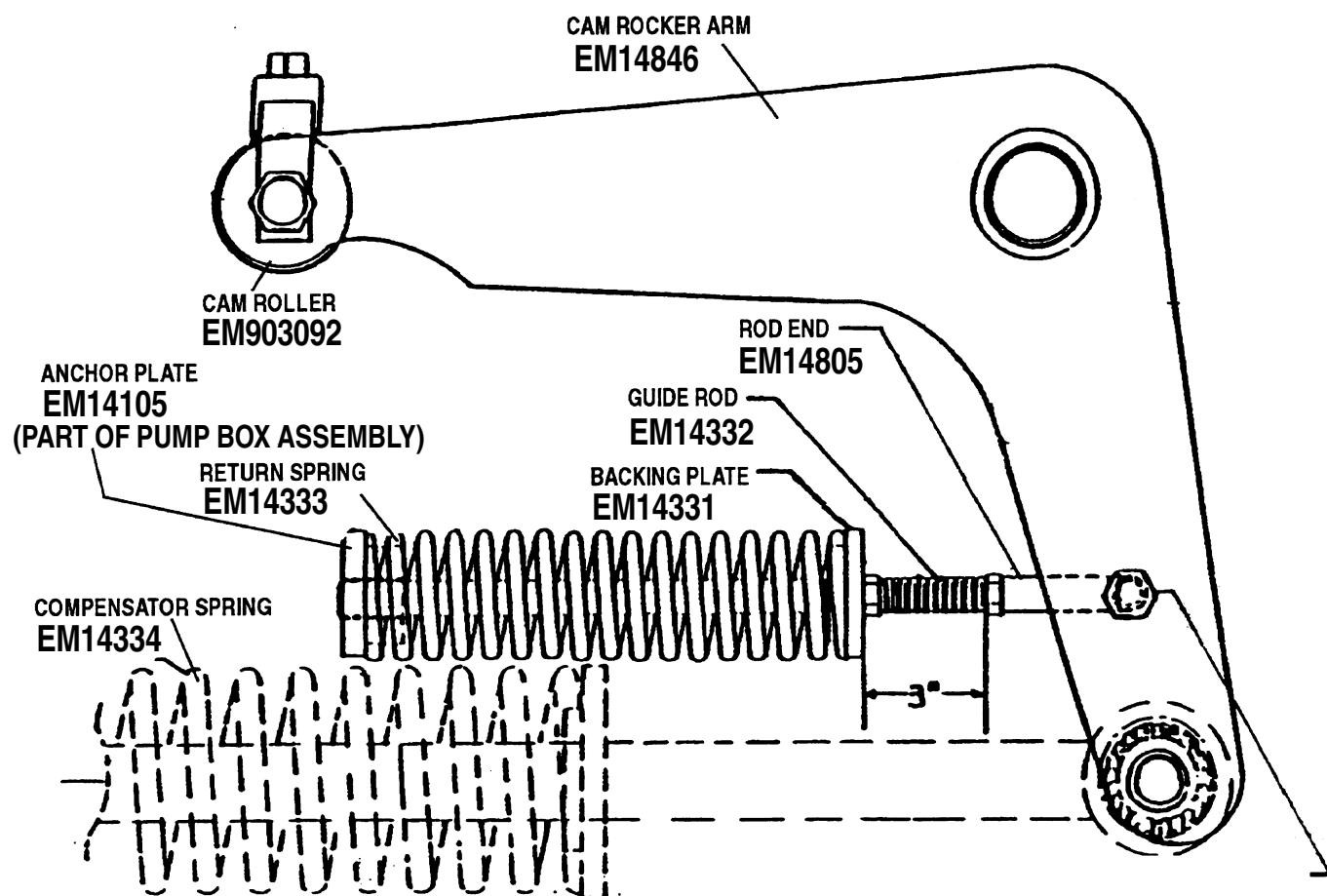
C-30HD CONCRETE PUMP ROCKER ASSEMBLIES

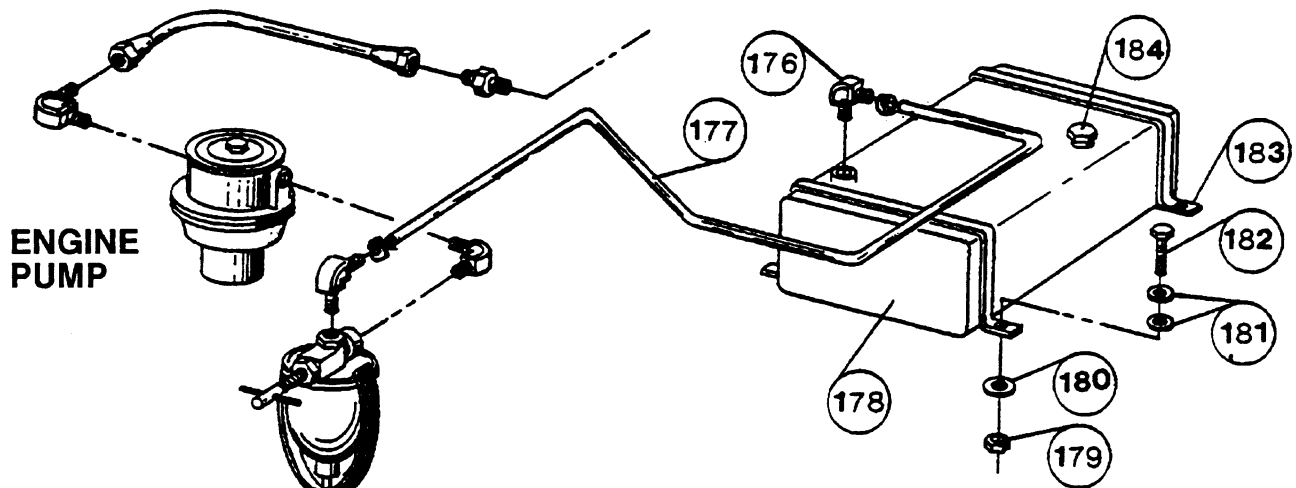
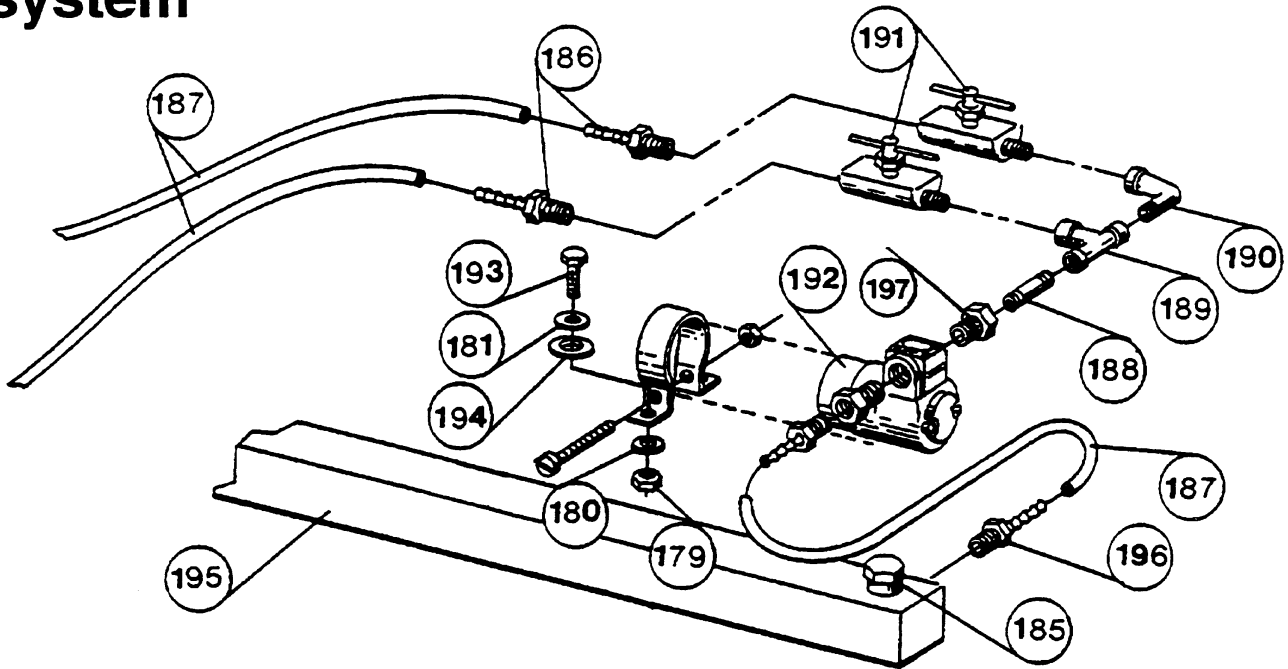
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
68	EM202	BOLT, HEX 1-8X6 LG	1	
69	EM133	BOLT, HEX 1-14X2 LG	2	
70	EM627	WASHER, STAR 1"	3	
71	EM14329	ROCKER ARM SHAFT	1	
72	EM916001	LUBE FITTING, 1/8-27 NPT	3	REPLACES EM16179
73	EM20326-2	BUSHING	4	
74	EM105	BOLT, HEX 1-14X6 LG	2	
75	EM603	WASHER, LOCK 1"	3	
76	EM14328	ROCKER ARM ASSEMBLY	1	
77	EM417	NUT, LOCK 1-14	3	
78	EM402434	BUSHING	1	REPLACES EM20346
79	EM20347	SPACER	3	
80	EM903092	CAM ROLLER	1	REPLACES EM20345
81	EM23044	GREASE BOLT	1	
82	EM14846	CAM ROCKER ARM	1	
83	EM405	NUT, LOCK 3/4-10	1	
84	EM402456	OILER PLUG	1	
86	EM963180	BOLT, HEX 3/4-10X5 LG	1	REPLACES EM131
87	EM923157	CAM OILER SEAL SPACER	1	REPLACES EM607

C-30HD — COMPENSATING SPRING ASSEMBLY



C-30HD — RETURN SPRING ASSEMBLY





Fuel system

C-30HD — OIL SYSTEM AND FUEL SYSTEM

C-30HD CONCRETE PUMP OIL SYSTEM AND FUEL SYSTEM

NO.	PART NO.	PART NAME	QTY.	REMARKS
176	EM20426	MINI BARB ELBOW	2	
177	EM20427	FUEL LINE	A/R	
178		FUEL TANK	1	SEE NOTE
179	EM401	NUT, HEX 5/16-18	6	
180	EM968354	WASHER, LOCK 5/16	6	REPLACES EM601
181	EM923023	WASHER, FLAT 5/16	10	REPLACES EM614
182	EM101	BOLT, HEX 5/16-18X1 1/2	4	
183		FUEL TANK STRAP	2	SEE NOTE
184	EM20787	FUEL TANK CAP	1	SEE NOTE FOR PLASTIC FUEL TANK
185	EM20349	OIL PLUG	1	
186	EM20412	MINI BARB FITTING	3	
187	EM20415	CLEAR PLASTIC TUBE	A/R	
188	EM20417	NIPPLE	1	
189	EM20418	TEE FITTING	1	
190	EM911004	STREET ELBOW	1	REPLACES EM20416
191	EM20421	METERING VALVE	2	
192	EM14401	ELECTRIC OIL PUMP	1	
193	EM963030	BOLT, HEX 5/16-18X1	2	REPLACES EM163
194	EM923027	WASHER, FLAT 3/8	2	REPLACES EM611
195	EM14198	OIL RESERVOIR	1	
196	EM1440	INSERT FITTING	1	

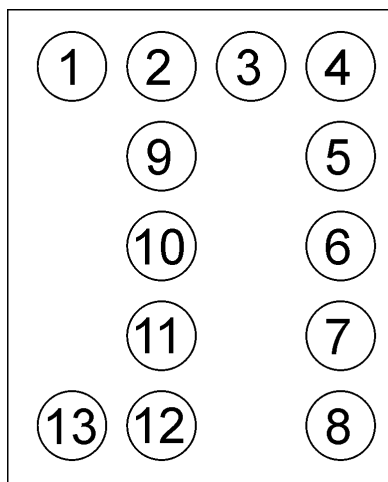
Notes: Item #178 and 183 (A) — Machines prior to 1993 use P/N 14701 Fuel Tank (8 gal. capacity) and #14703 Fuel Tank Straps (two required). (B) — Machines after 1993 use P/N 14205 Fuel Tank (18 gal. capacity) and #16185 Fuel Tank Straps (two required). (C) — Machines after 2/1/95 use P/N 14205P Plastic Fuel Tank (18 gal. capacity); P/N 2108 Gas Cap. Fuel tank straps not required. Note: interchangeable with P/N 14205.

FITTING LOCATION AND PLASTIC HOSE LENGTH

EM509306 PANEL ASSY COMPLETE

EM505489 HOSE GREASE ZERK-12 REQUIRED

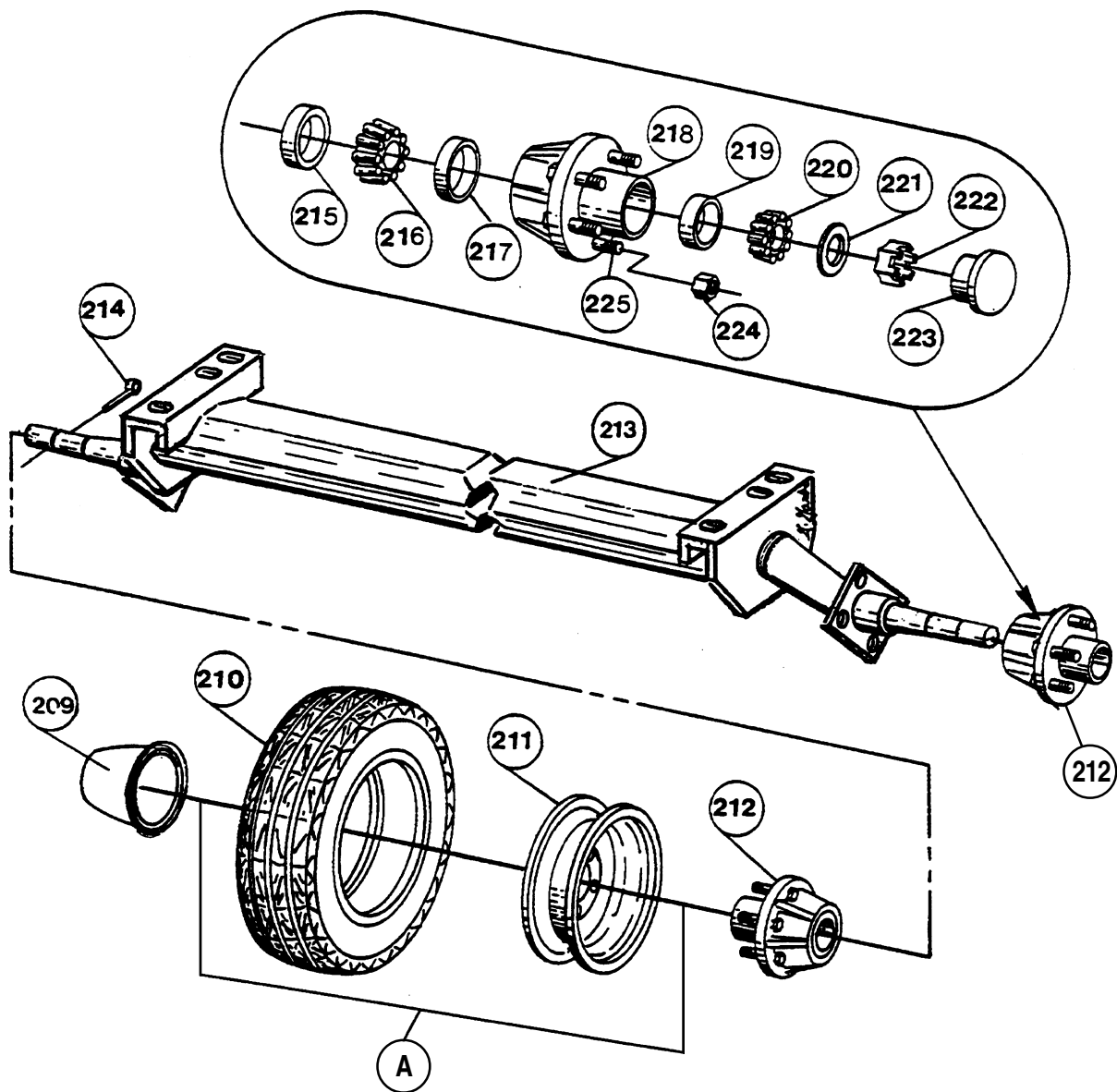
EM505490 45° GREASE ZERK-1 REQUIRED



**NOTE: P/N
EM16495
GREASE LINE
(sold per foot)**

<u>POSITION</u>	<u>LOCATION</u>	<u>LENGTH OF LINES</u>
1	FLANGE BEARING (CRANKSHAFT)	28"
2	CONNECTING ROD	31"
3	CAM BEARING	28"
4	STEEL BEARING BLOCK (SQUARE)	34"
5	ROCKER ARM UPPER (CRANKSHAFT SIDE)	10"
6	PILLOW BLOCK BEARINGS (COUNTERSHAFT)	15"
7	LOWER ROCKER ARM	28"
8	ROCKER ARM LOWER (CHAIN SIDE)	26"
9	PILLOW BLOCK BEARINGS (COUNTERSHAFT)	20"
10	ROCKER ARM UPPER (PULLEY SIDE)	20"
11	CONNECTING ROD LOWER	40"
12	PISTON GUIDE	42"
13	PISTON ROD	42"
TOTAL LENGTH OF LINES REQUIRED		364"

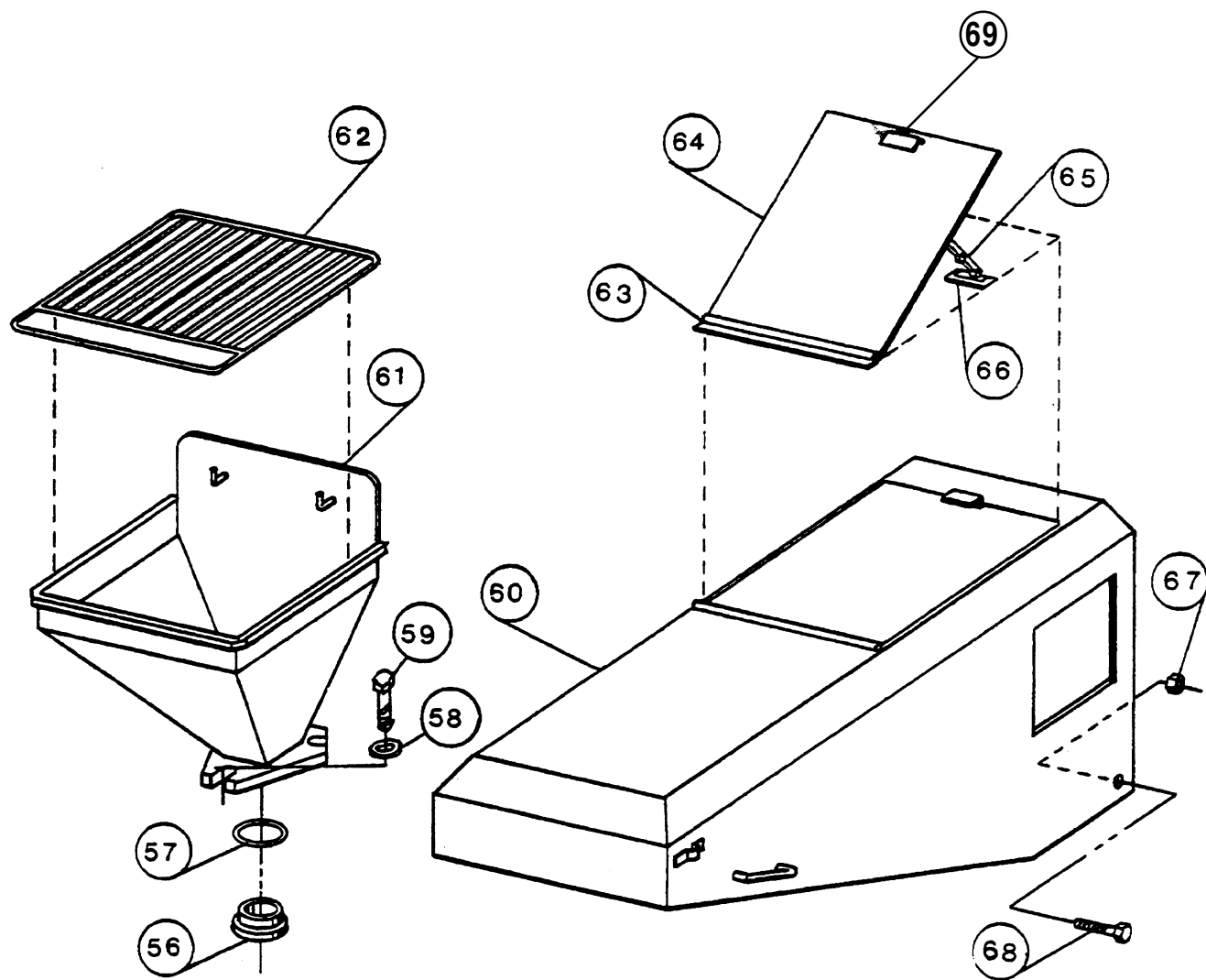
C-30HD — AXLE INSTALLATION



C-30HD — AXLE INSTALLATION

C-30HD CONCRETE PUMP AXLE INSTALLATION

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
A	EM26615A	TIRE ASSY	2	INCLS. ALL ITEMS W/*
209	EM26518	HUB CAP	2	
210*	EM20603	TIRE	2	
211*	EM20602	WHEEL	2	
212	EM20601	HUB ASSEMBLY	2	INCLS. ALL ITEMS W/#
213	EM14600	AXLE	1	
214	EM705	PIN, COTTER 3/16X1 1/2	2	
215#	EM26305	GREASE SEAL	2	
216#	EM903168	INNER BEARING	2	REPLACES EM26301
217#	EM903169	INNER CUP	2	REPLACES EM26303
218#	EM26300	HUB	2	
219#	EM903012	OUTER CUP	2	REPLACES EM26304
220#	EM903113	OUTER BEARING	2	REPLACES EM26302
221#	EM26329	WASHER	2	
222#	EM968481	CASTLE NUT	2	REPLACES EM420
223#	EM26306	DUST COVER	2	
224#	EM26519	NUT	12	
225#	EM20612	STUD	12	



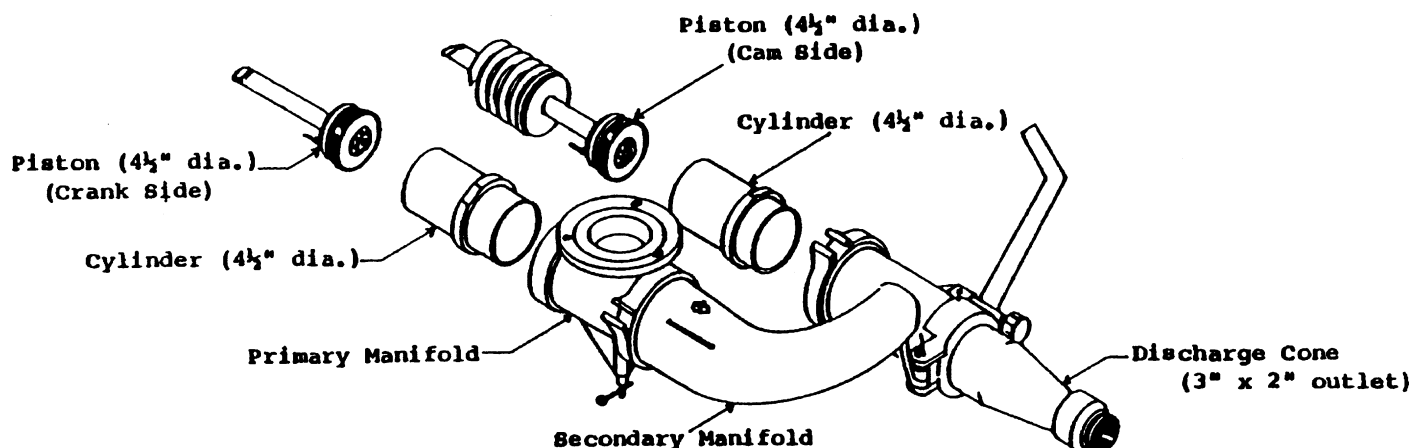
C-30HD — HOPPER AND HOOD

C-30HD CONCRETE PUMP HOPPER AND HOOD

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
56		DURASEAT	1	SEE NOTE BELOW
57	EM18801	"O" RING	1	
58	EM923348	5/8" LOCK WASHER	3	REPLACES EM602
59	EM104	5/8-11X2 LG HEX BOLT	3	
60	EM14140	HOOD	1	
61	EM14141	HOPPER	1	
62	EM14159	HOPPER SCREEN	1	
63	EM14140-17	DOOR HINGE	1	
64	EM14140-16	HOOD DOOR	1	
65	EM14140-4	HOOD DOOR SUPPORT	2	
66	EM14140-5	HOOD SUPPORT BRKT	2	
67	EM406	1/2-13 HEX NUT	2	
68	EM124	1/2-13X4 LG HEX BOLT	2	
69	508659	LATCH	1	
	EM14164	KIT, DECAL SAFETY	1	COMPONENTS NOT SHOWN

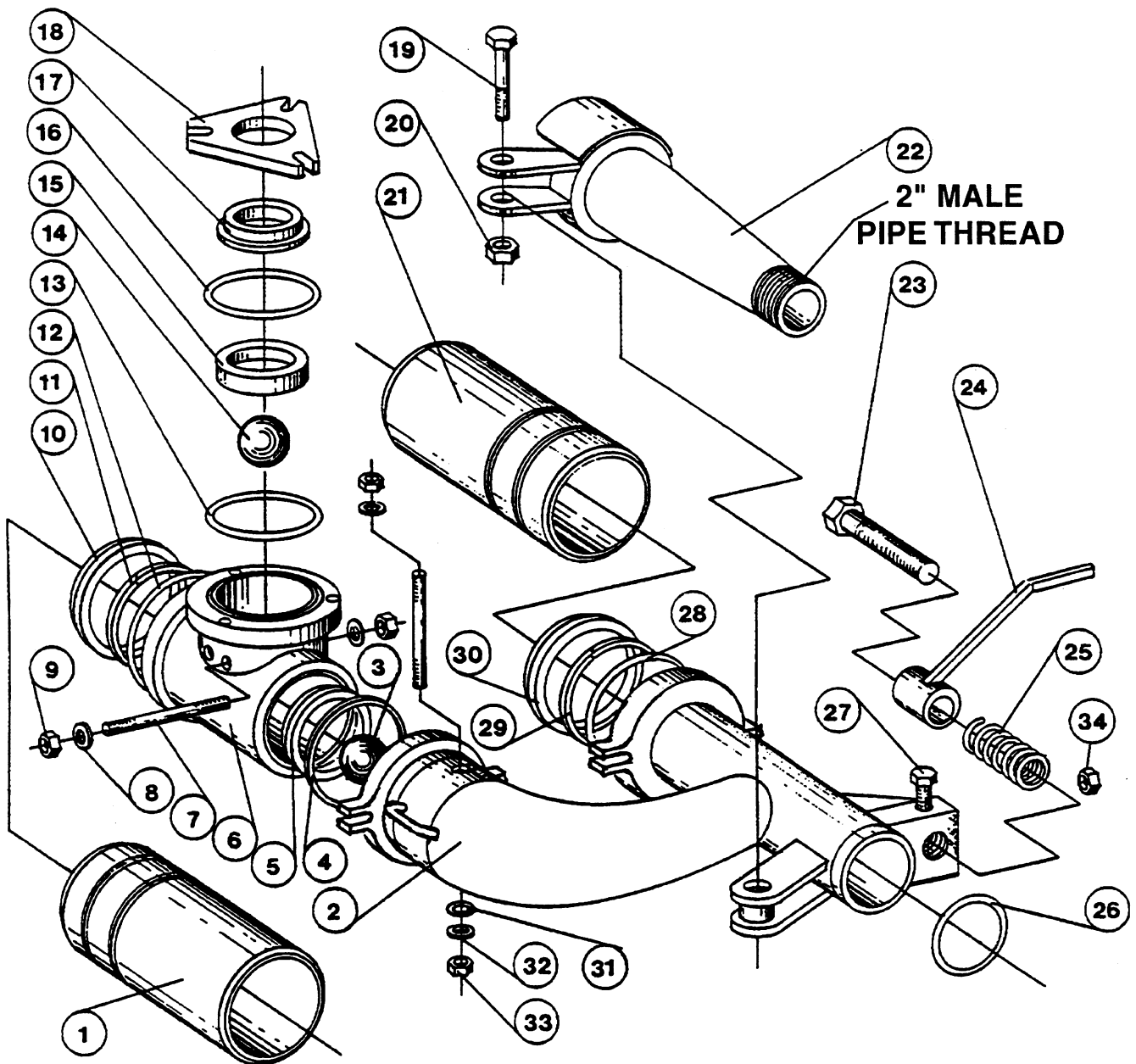
Note on item 56: A — Machines, built after July 1, 1990 use Duraseat P/N 14843 — This new seat is more durable and can be used on older units.

C-30MG — SCALED DOWN MANIFOLD/CYLINDER KIT MODEL C-30MG



The above manifold/cylinder and piston assembly can be ordered as a kit to be installed on model C-30K, C-30SP or model C-30D pumps. This unit has a volume delivery of 4 to 13 cu. yds. per hour. When installed on a standard pump, the unit will pump brick mortar as well as 1/2" minus aggregate mixes in excess of 200 ft. vertical. It is a high pressure-low volume pump for numerous applications such as high-rise grouting-spancrete-mud jacking-capping wells-tunnel grouting-pumping pilings and shotcrete.

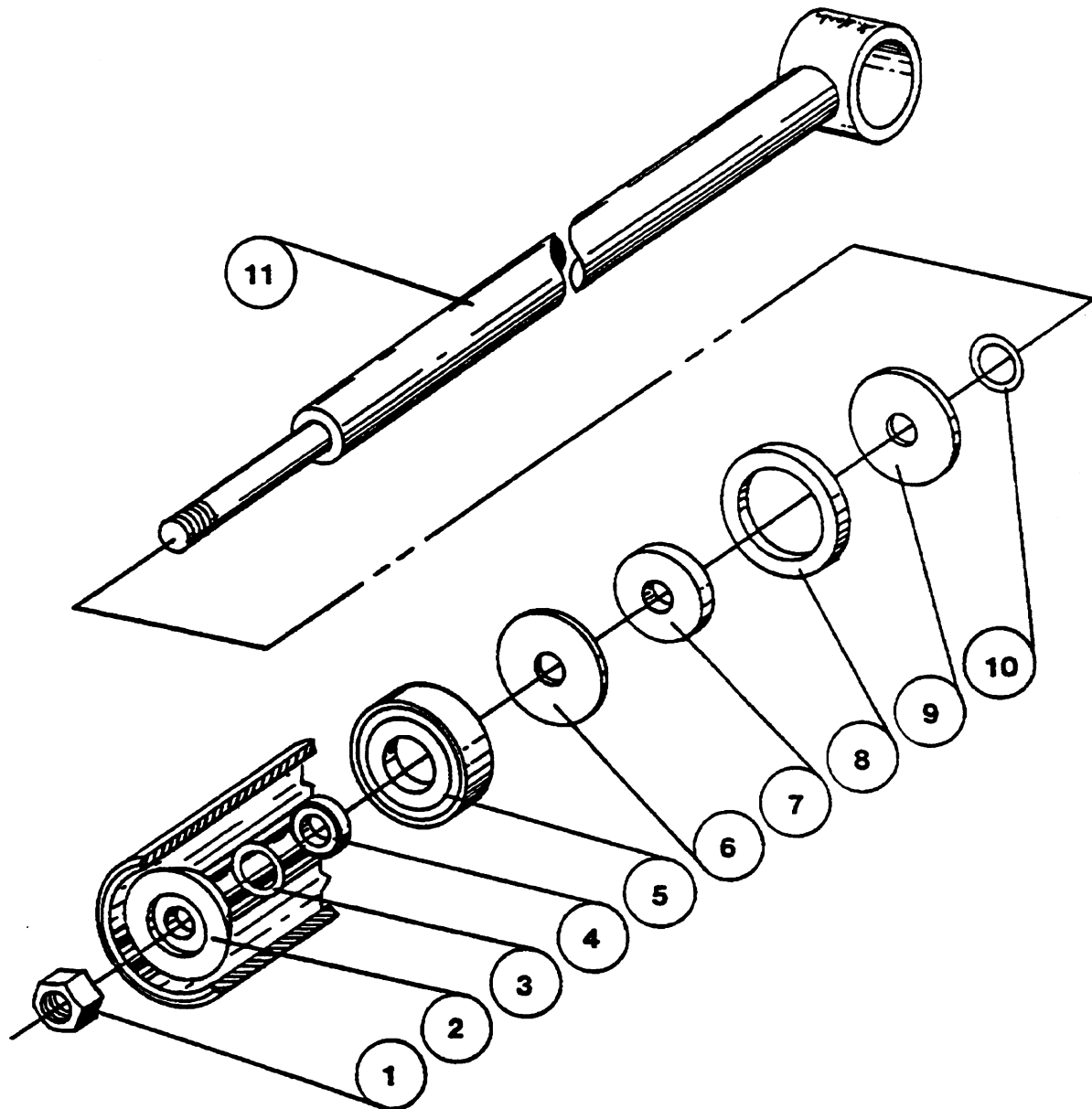
Note: If the above assembly is installed on model C-30D pumps it will be necessary to replace the compensator piston rod assembly with the new style used on the model C-30K, and model C-30 HD.



C-30MG — MANIFOLD ASSEMBLY C-30MG

C-30MG CONCRETE PUMP
MANIFOLD ASSEMBLY-C30-MG

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM14832	PUMPING CYLINDER	1	
2	EM14827	MANIFOLD	1	
3	EM14824	STEEL BALL, 3-1/4	1	
4	EM14422	SQ. SEAL	1	
5	EM14823	VALVE SEAT	1	
6	EM14822	VALVE HOUSING	1	
7	EM803	BALL STOP STUD	3	
8	EM618	WASHER, 3/4	6	
9	EM968266	NUT, JAM 3/4-16	6	REPLACES EM421
10	EM14833	ADAPTOR	1	
11	EM802	RETAINING RING	1	
12	EM14829	O-RING	1	
13	EM18801	O-RING	1	
14	EM14824	STEEL BALL, 3-1/4	1	
15	EM14826	INSERT	1	
16	EM18801	O-RING	1	
17	EM14823	VALVE SEAT	1	
18	EM14836	VALVE SEAT ADAPT.	1	
19	EM963180	BOLT, 3/4-10X5	1	REPLACES EM131
20	EM968446	NUT, HEX 3/4-10	1	REPLACES EM407
21	EM14832	COMP CYLINDER	1	
22	EM14828	REDUCER	1	
23	EM135	BOLT, 1/4-20X6	1	
24	EM14845	CLAMP ARM	1	
25	EM14810	SPRING	1	
26	EM14830	O-RING	1	
27	EM160	BOLT, 3/8-16X3/4	1	
28	EM14829	O-RING	1	
29	EM802	RETAINING RING	1	
30	EM14833	ADAPTOR	1	
31	EM18409	O-RING	6	
32	EM618	WASHER, 3/4	6	
33	EM968266	NUT, JAM 3/4X16	6	REPLACES EM421
34	EM451	NUT, HEX 1-1/4-12	1	

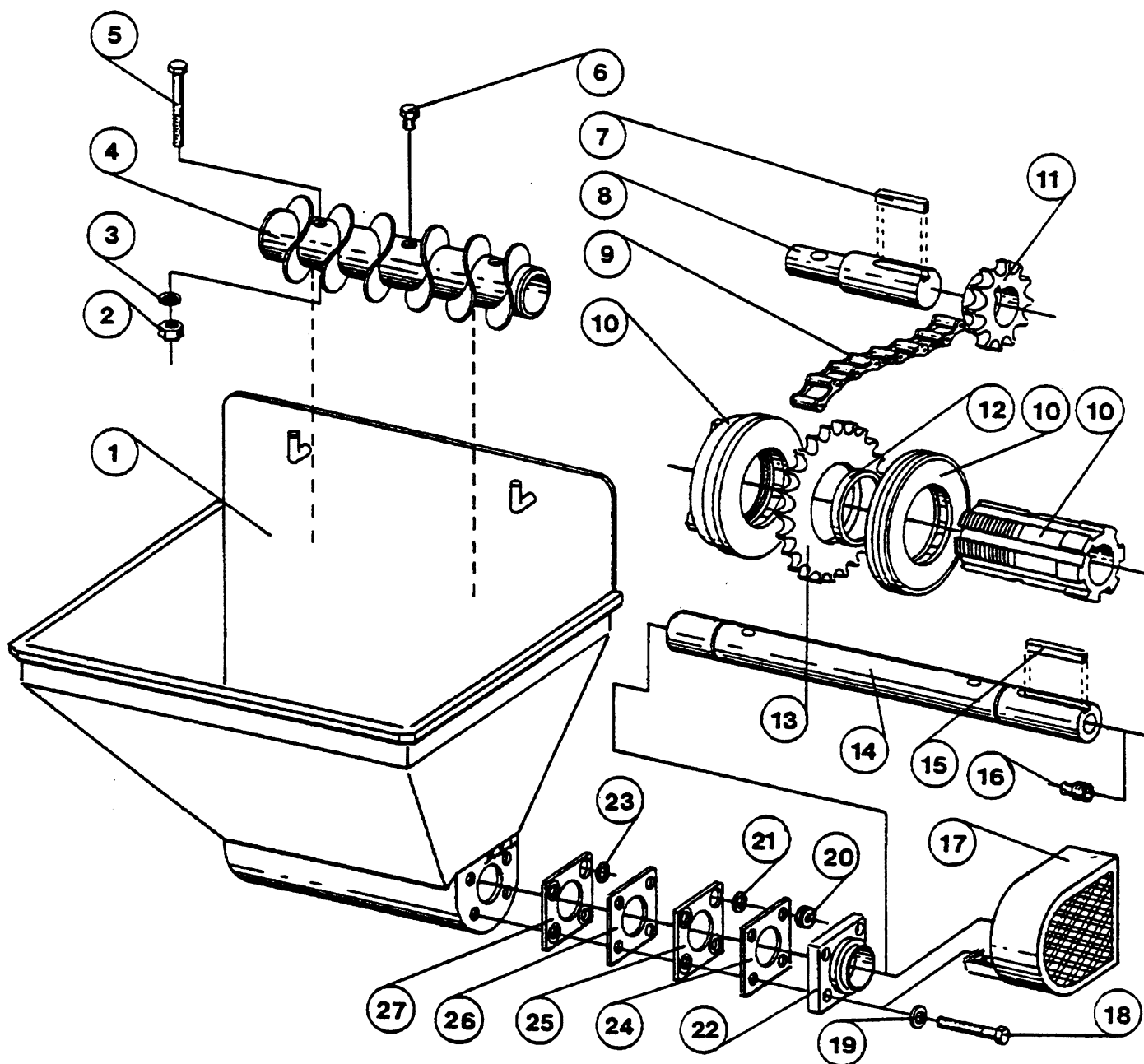


C-30MG — PISTON HEAD COMPONENTS

C-30MG CONCRETE PUMP
PISTON HEAD COMPONENTS C30-MG

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM968446	NUT, HEX 3/4-10	2	REPLACES EM407
2	EM14420	FACE PLATE	2	
3	EM18409	O-RING	2	
4	EM14418	SLEEVE	2	
5	EM14419	PISTON CUP	2	
6	EM14417	BACK PLATE	2	
7	EM14416	FELT SPACER	2	
8	EM14423	FELT RING	2	
9	EM14421	OILER PLATE	2	
10	EM18409	O-RING	2	
11	EM14808	PISTON ROD	2	

C-30SP — OPTIONAL SCREW CONVEYOR AND TORQUE LIMITER MODEL C30-SP



C-30SP — OPTIONAL SCREW CONVEYOR AND TORQUE LIMITER MODEL C30-SP

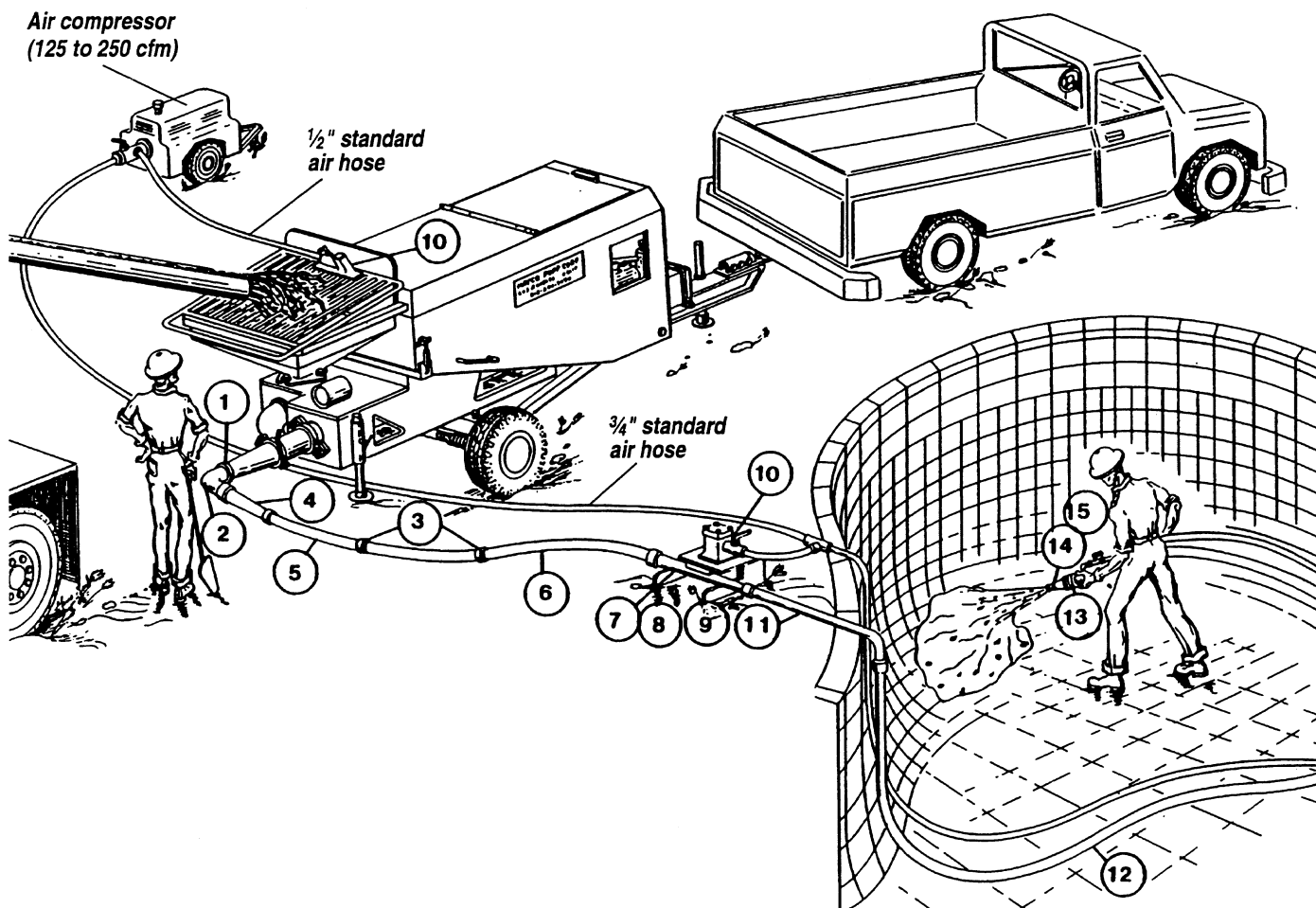
C-30SP CONCRETE PUMP

OPTIONAL SCREW CONVEYOR AND TORQUE LIMITER C30-SP

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM14175	HOPPER	1	
2	EM968011	NUT, HEX 1/2-13	2	REPLACES EM404
3	EM923346	WASHER, LOCK 1/2	2	REPLACES EM606
4	EM26108	SCREW FEEDER	1	
5	EM147	BOLT, HEX 1/2-13X2.1/2	2	
6	EM26108-4	PLUG	1	
7	EM721	KEY	1	
8	EM14170	EXTENSION	1	
9	EM14340	SPROCKET CHAIN	1	
10	EM14338	TORQUE LIMITER	1	
11	EM14341	SPROCKET	1	
12	EM14716	BUSHING	1	
13	EM14339	SPROCKET	1	
14	EM26359	DRIVE SHAFT	1	
15	EM720	KEY	1	
16	EM916001	OILER	1	REPLACES EM16179
17	EM26109	CHAIN GUARD	1	
18	EM147	BOLT, HEX 1/2-13X2.1/2	8	
19	EM923346	WASHER, LOCK 1/2	8	REPLACES EM606
20	EM621	WASHER, WILLIAM	4	
21	EM18138	SEAL SPACER	8	
22	EM18135	FLANGE BEARING	2	
23	EM18138	SEAL SPACER	8	
24	EM18136	SPACER PLATE	2	
25	EM18137	SHAFT SEAL	2	
26	EM18136	SPACER PLATE	2	
27	EM18137	SHAFT SEAL	2	

RECOMMENDED SHOTCRETE SYSTEM

For swimming pool construction, ditch lining, tunnel lining, slope stabilization, etc.



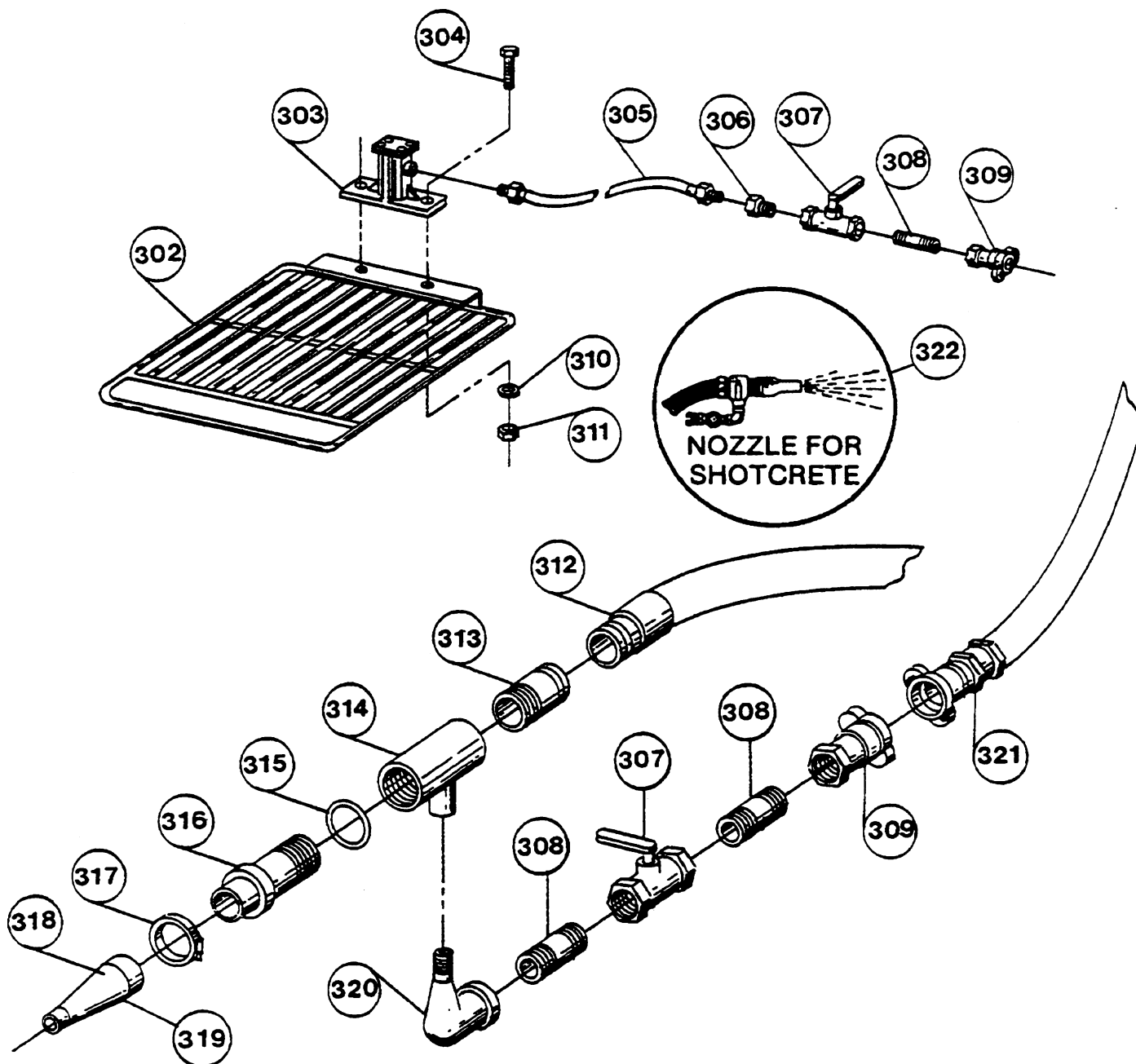
RECOMMENDED SHOTCRETE SYSTEM

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	EM28904	3" "B" COUPLING		
2	EM23946	3"-90° ELBOW		
3	EM28903	2 1/2" S/J COUPLING		
4	EM28005DD	3"X 2 1/2 REDUCER		
5	EM28061	2 1/2"X 10FT. PIPE		
6	EM24849	2 1/2"X 50FT. HOSE		
7	EM28001DD	2 1/2"X 2" REDUCER		
8	EM23815D	2 1/2"X 2" REDUCER W/AIR VIBRATOR		
9	EM28902	2" S/J COUPLING		
10	EM23101	AIR VIBRATOR		
11	EM28131	2"X 2 ELBOW		
12	EM24841	2"X 25 FT. HOSE		
13	EM23808D	NOZZLE ASSEMBLY		
14	EM23806	1 3/8" NOZZLE TIP		
15	EM23807	1 1/4" NOZZLE TIP		

General recommendations

- If the site will permit, use steel pipe from the pump to the pool perimeter. It will reduce line pressures which is highly recommended.
- The vibrator on the reducer by the pool improves pumpability.
- Turn both air vibrators off whenever the pump is stopped to prevent separation of mix.
- The air vibrators are low consumption (4.2 scfm).
- Leave the air on at the nozzle when the pump is stopped to prevent clogging of air the hoses in the air insert.
- Use item #11 (steel elbow) at the edge of the pool to prevent collapse of the rubber hose, which can cause blockage.

C-30HD SHOTCRETE ACCESSORIES



C-30HD SHOTCRETE ACCESSORIES

C-30HD CONCRETE PUMP SHOTCRETE ACCESSORIES

NO.	PART NO.	PART NAME	QTY.	REMARKS
302	EM26107	HOPPER SCREEN	1	
303	EM23101-1	AIR VIBRATOR	1	
304	EM132	BOLT, 1/2-13X2	2	
305	EM23407	AIR HOSE	1	
306	EM23408	BUSHING	1	
307	EM23411	VALVE	1	
308	EM912073	NIPPLE	2	
309	EM23409	COUPLING	1	
310	EM923346	WASHER, 1/2 LOCK	2	REPLACES EM606
311	EM406	NUT, HEX 1/2-13	2	
312	EM23818	2"X25' GROOVED HOSE		
	EM24841	2"X25' RAISED HOSE		
	EM23845	2"X50' GROOVED HOSE		
313*	EM23802	ADAPTER	1	
314*	EM23803	GUN BODY	1	
315*	EM20816	"O" RING	1	
316*	EM23804	AIR INSERT	1	
317*	EM23805	NOZZLE CLAMP	1	
318*	EM23806	NOZZLE TIP, 1 3/8"	1	
319*	EM23807	NOZZLE TIP, 1 1/4"	1	
320*	EM911076	STREET ELBOW	1	REPLACES EM23412
321		AIR HOSE		NOT SUPPLIED BY MAYCO
322	EM23808	NOZZLE ASSEMBLY	1	INCLS. ITEMS W/*

NOTE: Use a 1 3/8" rubber nozzle tip for a wide spray pattern. Use a 1 1/4" rubber nozzle tip for a narrow spray pattern. DO NOT INSTALL THE NOZZLE AT THE END OF THE HOSE UNTIL THE FIRST MATERIAL HAS PASSED THROUGH THE ENTIRE HOSE LENGTH.

Disassemble and clean the nozzle assembly thoroughly after each job. Grease all threads before re-assembly. Do not close the air valve when pumping is stopped as a continued air flow keeps the air passages clean.