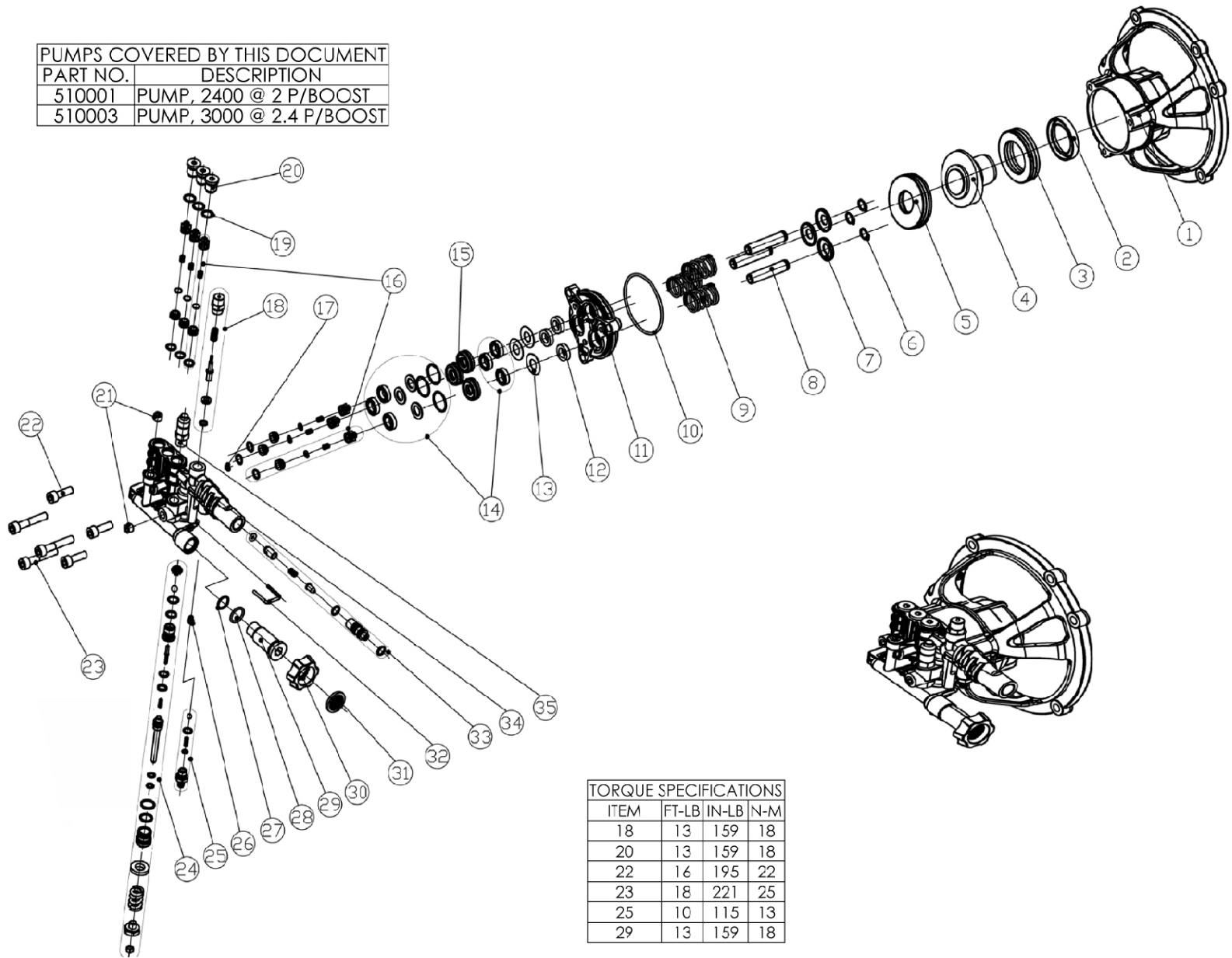


PUMPS COVERED BY THIS DOCUMENT	
PART NO.	DESCRIPTION
510001	PUMP, 2400 @ 2 P/BOOST
510003	PUMP, 3000 @ 2.4 P/BOOST

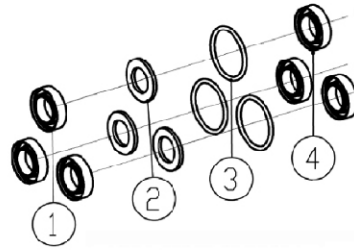


TORQUE SPECIFICATIONS			
ITEM	FT-LB	IN-LB	N-M
18	13	159	18
20	13	159	18
22	16	195	22
23	18	221	25
25	10	115	13
29	13	159	18



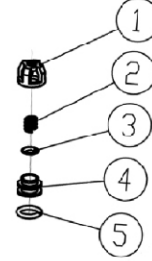
12 PART NO. 7106662

OIL SEAL KIT		
ITEM	QTY	DESCRIPTION
1	3	SEAL, OIL



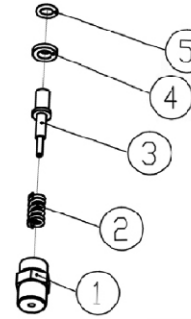
14 PART NO. 7106664

WATER SEAL KIT		
ITEM	QTY	DESCRIPTION
1	3	HIGH PRESSURE SEAL
2	3	BACK RING
3	3	O-RING
4	3	LOW PRESSURE SEAL



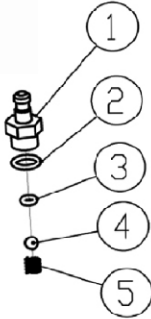
16 PART NO. 7104223

VALVE KIT		
ITEM	QTY	DESCRIPTION
1	6	VALVE CASE
2	6	SPRING
3	6	VALVE PLATE
4	6	VALVE SEAT
5	6	O-RING



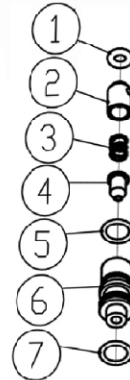
18 PART NO. 7106628

BOOST VALVE KIT		
ITEM	QTY	DESCRIPTION
1	1	VALVE CASE
2	1	VALVE SPRING
3	1	VALVE POLE
4	1	VALVE PLATE
5	1	O-RING



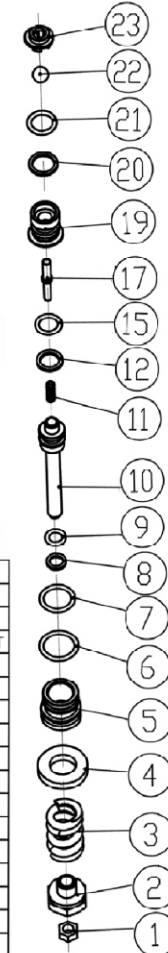
25 PART NO. 7104228

SOAP INJECTOR KIT		
ITEM	QTY	DESCRIPTION
1	1	HOSE BARB
2	1	O-RING
3	1	O-RING
4	1	STEEL BALL
5	1	SPRING



33 PART NO. 7106630

VENTURI TUBE KIT		
ITEM	QTY	DESCRIPTION
1	1	O-RING
2	1	CHECK VALVE CORE
3	1	CHECK VALVE SPRING
4	1	NOZZLE
5	1	O-RING
6	1	VENTURI TUBE
7	1	O-RING



24 PART NO. 7104226

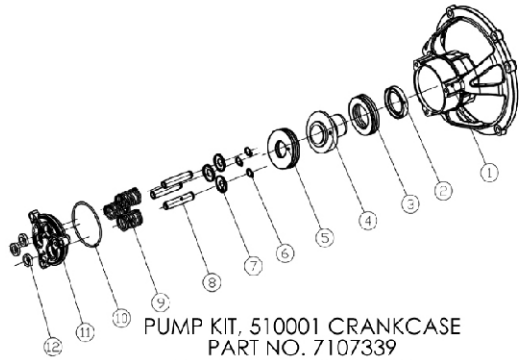
UNLOADER KIT		
ITEM	QTY	DESCRIPTION
1	1	NUT
2	1	ADJUSTING NUT
3	1	SPRING
4	1	SEATING RING
5	1	VALVE SHEATH
6	1	O-RING
7	1	O-RING
8	1	CHECKING RING
9	1	O-RING
10	1	VALVE POLE
11	1	SPRING
12	1	CHECKING RING
15	1	O-RING
17	1	PIN
19	1	UPPER SEAT
20	1	CHECKING RING
21	1	O-RING
22	1	STEEL BALL
23	1	BACK SEAT

510001 PUMP DRAWING PARTS LIST

ITEM	MA S500	PARTS NAME	QTY PER PUMP	COMMENT
1	7106631	Case	1	
2	7106632	Oil Seal	1	
3	7106633	Thrusting Bearing 2	1	
4	7106634	Wobble Plate	1	
5	7106635	Thrusting Bearing 1	1	
6	7106629	Clip	3	
7	7106657	Spring Base	3	
8	7106658	Plunger	3	
9	7106639	Spring, Plunger	3	
10	7106640	O-Ring, Plunger Base	1	
11	7106661	Base, Plunger	1	
12	7106662	Oil Seal	3	Oil Seal Kit
13	7106663	Back ring	3	
14	7106664	High Pressure Water Seal	3	Water Seal Kit
		Back Ring		
		O-Ring		
		Low Pressure Water Seal		
15	7106665	Back Ring	3	
16	7104223	Valve Case	6	Valve Kit (INLET AND OUTLET)
		Spring		
		Valve Plate		
		Valve Seat		
		O-Ring		
17	7106644	O-Ring	1	
18	7106623	Boost Valve Case	1	Boost Valve Kit
		Boost Valve Spring		
		Boost Valve Pole		
		Boost Valve Plate		
		O-Ring		
19	7106645	O-Ring	3	
20	7106646	Plug	3	
21	7106647	Plug	2	
22	7106643	Screw	3	
23	7106649	Screw	3	

510001 PUMP DRAWING PARTS LIST

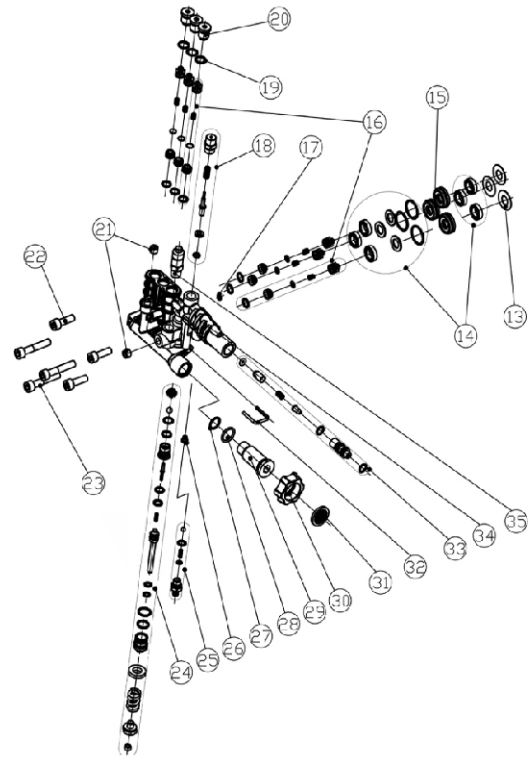
ITEM	MA S500	PARTS NAME	QTY PER PUMP	COMMENT
24	7104226	Nut	1	Unloader Kit
		Adjusting Nut		
		Spring		
		Seating Ring		
		Valve Sheath		
		O-Ring		
		O-Ring		
		Checking Ring		
		O-Ring		
		Valve Pole		
		Spring		
		Checking Ring		
		O-Ring		
		Pin		
		Upper Seat		
		Checking Ring		
		O-Ring		
Steel Ball				
Back Seat				
25	7104228	Nozzle	1	Soap Injector Kit
		O-Ring		
		O-Ring		
		Steel Ball		
		Spring		
26	7106550	Venturi Tube Back Ring	1	
27	7106551	O-Ring	1	
28	7106552	O-Ring	1	
29	7106553	Inlet Connector	1	
30	7106554	Nut	1	
31	7000123	Filter Gasket	1	
32	7106555	U-Pin	1	
33	7106530	O-Ring	1	Venturi Tube Kit
		Checking Valve Core		
		Checking Valve Spring		
		Nozzle		
		O-Ring		
		Venturi Tube		
O-Ring				
34	7106556	Pump Head	1	
35	7101359	Thermal Relief Valve	1	



PUMP KIT, 510001 CRANKCASE
PART NO. 7107339

510001 PUMP DRAWING PARTS LIST

ITEM	IMS900	PARTS NAME	QTY PER PUMP	COMMENT
1	*-00531	Case	1	
2	*-00532	Oil Seal	1	
3	*-00533	Tracking Bearing 2	1	
4	*-00534	Washer Plate	1	
5	*-00535	Tracking Bearing 1	1	
6	*-00536	Chk	3	
7	*-00537	Spring Base	3	
8	*-00538	Plunger	3	
9	*-00539	Spring, Plunger	3	
10	*-00540	O Ring, Plunger Base	1	
11	*-00541	Base, Plunger	1	
12	*-00532	Oil Seal	3	Oil Seal Kit



PUMP KIT, 510001 MANIFOLD
PART NO. 7107340

510001 PUMP DRAWING PARTS LIST

13	710603	Back Ring	1	
14	710602	High Pressure Valve Seat	1	Water Seal Kit
		Back Ring	1	
		O Ring	1	
15	710603	Low Pressure Valve Seat	1	
		Back Ring	1	
16	710229	Valve Case	1	Valve Kit (INLET AND OUTLET)
		Spring	1	
		Valve Plate	1	
		Valve Seat	1	
17	710611	O Ring	1	
		Boost Valve Case	1	
		Boost Valve Ball	1	
		Boost Valve Plate	1	
18	710623	O Ring	1	Boost Valve Kit
		Boost Valve Case	1	
		Boost Valve Ball	1	
		Boost Valve Plate	1	
19	710663	O Ring	2	
20	710665	Pin	2	
21	710617	Pin	2	
22	710661	Stem	2	
23	710643	Stem	2	
24	710229	Ball	1	Unloader Kit
		Adjusting Nut		
		Spring		
		Sealing Ring		
		Valve Thread		
		O Ring		
		O Ring		
		Checking Ring		
		O Ring		
		Valve Plate		
		Spring		
		Checking Ring		
		O Ring		
		O Ring		
Pin				
Upper Seat				
Checking Ring				
O Ring				
O Ring				
Steel Ball				
Back Seat				
25	710229	Nozzle	1	Scrap Injector Kit
		O Ring		
		Steel Ball		
		Spring		
26	710603	Venturi Tube Neck Ring	1	
27	710601	O Ring	1	
28	710602	O Ring	1	
29	710603	Inlet Connector	1	
30	710624	Ball	1	
31	703171	Filter Bracket	1	
32	710602	O Ring	1	
33	710603	O Ring	1	Venturi Tube Kit
		Checking Valve Core		
		Checking Valve Spring		
		Nozzle		
34	710603	Pump Head	1	
35	710229	Thermal Relief Valve	1	