Illustrated Parts Manual

Model
2646ES
3246ES

SN 0200239382 to Present
SN B200020297 to Present
SN M200000100 to M200039292
SN 1200025021 to Present

Except PVC 1910 & PVC 2004 Machines

P/N
3121683

April 16, 2020 - Rev Q

ANSI

CE

AS/NZS

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SECTION 5 - CYLINDER 299

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FIGURE 5-1. LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684489	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH STANDARD HYDRAULIC OIL (TEXAS HYDRAULICS)	H
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	7023577	2	O-Ring	
2	See Note	NSS	Capscrew (Note: Purchase Locally)	
3	See Note	NSS	Locknut (Note: Purchase Locally)	
4	7023589	4	Capscrew	
5	See Note	NSS	Flatwasher (Note: Purchase Locally)	
6	7023539	1	Clamp	
7	7023557	1	Power Pack Assembly - Complete (See Items 101-107B for Breakdown)	
8	70003646	2	Pin, Dowel	
8	70003645	2	Roll Pin	
9	See Note	NSS	Cylinder Assembly Only (Note: See Items 201-227 for Breakdown)	
		Ref	POWER PACK ASSEMBLY - COMPLETE	
	7023557	Ref	Power Pack Assembly - Complete (1684489/1684529 Cylinders)	
101	7023578	1	Tank Kit (Note: Includes Tank and Items 101A-101C)	
101A	7023593	1	Plug, Fill	
101B	See Note	NSS	Screw (Note: Use Item 101)	
101C	See Note	NSS	Magnet (Note: Use Item 101)	
102A	7023579	1	Motor	
102A	70000659	1	Brush Kit - 7023579 Motor	
102B	See Note	NSS	Screw (Note: Use Item 102A Motor)	
102B	See Note	NSS	Washer (Note: Use Item 102A Motor)	
103	7023571	1	Adapter Kit	
103A	70000335	1	O-Ring (Note: Use Item 252)	
103B	See Note	NSS	Screw (Note: Use Item 103)	
103C	See Note	NSS	Screw (Note: Use Item 103)	
103D	See Note	NSS	Adapter (Note: Use Item 103)	
103E	See Note	1	Seal (Note: Use Item 252)	
103F	See Note	NSS	Retainer (Note: Use Item 103)	
103G	2220883	2	Plug	
103H	See Note	NSS	Plug (Note: Use Item 103)	
103J	See Note	NSS	Breather 9/16 - 12UNC (Note: Use Item 103)	
103K	See Note	NSS	Breather 9/16 - 18SAE (Note: Use Item 103)	
104	7023580	1	Pump (Note: Shaft Seal is only Repair Part Available. No Other Service Parts Available - Replace Complete Pump.)	
104A	See Note	1	Seal, Shaft (Note: Use Item 252)	
105	7023573	1	Relief Valve Assembly	
105A	7023591	1	Sealing Washer	
106		Ref	Power Pack Miscellaneous Service Parts	
106A	See Note	NSS	Seal (Note: Use Item 7)	
106B	See Note	1	Seal (Note: Use Item 252)	
106C	See Note	NSS	Screw (Note: Use Item 7)	
106F	See Note	1	Seal (Note: Use Item 252)	
106G	See Note	NSS	Tab, Locking (Note: Use Item 7)	
106H	See Note	NSS	Retainer, Tube (Note: Use Item 7)	

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FIGURE 5-8. LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131036	Ref	LIFT CYLINDER ASSEMBLY - 2646ES WITH BIODEGRADEABLE HYDRAULIC OIL (SH-PAC)	F
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	70004634	1	Barrel	
2	70004635	1	Rod	
3	70004636	1	Head, Cylinder	
4	See Note	NSS	Seal, Dust (Note: Use Item 20)	
5	See Note	NSS	Seal (Note: Use Item 20)	
6	70004637	1	Bearing	
7	See Note	NSS	O-Ring (Note: Use Item 20)	
8	See Note	NSS	O-Ring (Note: Use Item 20)	
9	70004638	1	Piston	
10	See Note	NSS	Seal (Note: Use Item 20)	
11	See Note	NSS	Ring, Wear (Note: Use Item 20)	
12	See Note	NSS	O-Ring (Note: Use Item 20)	
13	70003663	1	Nut	
14	0962181	2	Bushing (Rod End)	
14	0962006	2	Bushing (Barrel End)	
15	70004949	1	Motor/Pump/Tank Assembly (See Items 102-121 for Breakdown)	
16	See Note	1	O-Ring (Note: Use Item 20)	
17	70004639	2	Capscrew M10 x 50	
18	70004625	3	Capscrew M8 x 20	
19	70004626	2	Plug, Extension	
20	70004640	1	Seal Kit - Cylinder (Includes Items 4, 5, 7, 8, 10, 11, 12 & 16)	
		Ref	MOTOR/PUMP/TANK ASSEMBLIES	
	70004949	1	Motor/Pump/Tank Assembly	
102	70004914	1	O-Ring	
103	70004915	1	Cartridge, Valve (Main Relief)	
104	70004916	1	Cartridge, Valve (Breather Vacuum Check)	
105	70004917	1	Cartridge, Valve (Breather Pressure Check)	
106	70004980	1	Kit, Motor (Includes motor, flange and ring)	
107	70005233	1	Kit, Pump (Includes pump and hardware)	
108	70004974	4	Washer M8	
109	70004975	4	Capscrew M8 x 60	
110	70004973	1	Shaft Coupling	
111	70004925	2	O-Ring	
112	70003028	1	Cartridge, Solenoid Valve Less Coil (Steer)	
113	70004926	1	Cartridge, Solenoid Valve Less Coil (Lift)	
114	70004927	2	Cartridge, Valve (Steer Relief)	
115	70004585	1	Cartridge, Valve (Lift Check)	
116	70004928	1	Filter 300 micron	
117	70003707	3	Coil	
118	70004947	1	Pipe, Suction	
119	70004948	1	Pipe, Return	
120	70004935	1	Filter, Bypass	
121	70004936	3	O-Ring	
122	70005241	1	Kit, Tank (Includes tank, plug, "o"-ring and screws)	

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FIGURE 7-19. CABLES INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001196861	Ref	CABLE INSTALLATION	B
		Ref	Usage Chart	
		Ref	China Built Machines **(SN B200020297 through B200035317)**	
		Ref	Mexico Built Machines **(SN M200000100 through M200039292)**	
		Ref	USA Built Machines	
		Ref	UL Machines (All Machines)	
1	0100048	1	Compound, Sealing	
2	0760606	4	Bolt M6 x 12	
3	0760610	4	Bolt M6 x 20	
4	1320318	1	Clamp	
5	1321716	2	Clamp	
6	1380158	21	Clip, Retainer	
7	3290601	2	Nut M6	
8	3290605	4	Nut M6	
9	3290606	6	Nut M6	
10	4010616	2	Screw M6 x 40	
11	4031713	2	Capscrew M6 x 45	
12	4740545	8	Washer	
13	4751400	4	Washer 1/4	
14	1001094175	2	Clamp	
15	1001194180	NLA	Clamp (Use p/n 1001210760) **(SN 0200239382 through 0200257625, SN B200020297 through B200035317, SN M200000100 through M200002832)**	
15	1001210433	NLA	Clamp (Use p/n 1001210760) **(SN 0200257626 to Present, SN M200002833 through M200039292)**	
16	1001096707	1	Platform Harness (Includes Item 15) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200239382 through 0200262555, SN B200020297 through B200035317, SN M200000100 through M200010214)**	
16	1001201244	1	Platform Harness (Includes Item 15) (Not Shown - See PLATFORM HARNESS for Breakdown) **(SN 0200262556 to Present, SN M200010215 through M200039292)**	
17	1001115002	1	Cylinder Harness (See CYLINDER HARNESS for Breakdown)	
18	1001178539	1	Battery Cable Kit (Not Shown - See BATTERY CABLE KIT for Breakdown)	
19	1001178543	1	Pump Power Harness (Not Shown - See Pump Power Harness for Breakdown)	
20	1001178686	1	Ground to Platform Harness (Not Shown - See GROUND TO PLATFORM HARNESS for Breakdown)	
21	1001196837	1	Chassis Harness (See CHASSIS HARNESS for Breakdown)	

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