Illustrated Parts Manual

Models

E/M400A/ AJPnarrow

Prior to SN 0300189901

E/M450A/AJ

Prior to SN 0300189898

P/N
3121830

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CE

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TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. STEER INSTALLATION 10
FIGURE 1-2. TIRE AND WHEEL DRIVE INSTALLATION 14
FIGURE 1-3. DRIVE HUB ASSEMBLY (Prior to SN 0300154191) 18
FIGURE 1-4. DRIVE HUB ASSEMBLY 22
FIGURE 1-5. HYDRAULIC COMPONENTS INSTALLATION 26
FIGURE 1-6. BRAKE/STEER VALVE ASSEMBLY 28
FIGURE 1-7. BATTERIES AND CHARGER INSTALLATION 30
FIGURE 1-8. MAC BATTERY CHARGER ASSEMBLY 34
FIGURE 1-9. ELECTRICAL COMPONENTS INSTALLATION (FRAMED MOUNTED) 38
FIGURE 1-10. YANMAR MOTOR/GENERATOR INSTALLATION (M MODELS ONLY) 42
FIGURE 1-11. KUBOTA MOTOR/GENERATOR INSTALLATION (M MODELS ONLY) 46
FIGURE 1-12. FRAME COVERS INSTALLATION 50

SECTION 2 - TURNTABLE 53

FIGURE 2-1. VALVES AND HORN INSTALLATIONS 54
FIGURE 2-2. MAIN CONTROL VALVE ASSEMBLY 58
FIGURE 2-3. TURNTABLE AND SWING DRIVE INSTALLATION 62
FIGURE 2-4. SWING MOTOR ASSEMBLY (Prior to SN 0300135649) 66
FIGURE 2-5. SWING MOTOR ASSEMBLY 68
FIGURE 2-6. SWING BEARING ASSEMBLY 70
FIGURE 2-7. FUEL TANK AND MOTOR CONTROL MODULE INSTALLATION (M MODELS ONLY) 74
FIGURE 2-8. GROUND CONTROL BOX ASSEMBLY 78
FIGURE 2-9. HOODS AND BEACON LIGHT INSTALLATIONS 82

SECTION 3 - BOOM 87

FIGURE 3-1. BOOMS AND CYLINDERS INSTALLATION 88
FIGURE 3-2. E/M450A & E/M400A MAIN BOOM ASSEMBLY AND PLATFORM SUPPORT INSTALLATION 94
FIGURE 3-3. E/M450AJ MAIN BOOM ASSEMBLY 98
FIGURE 3-4. E/M450AJ JIB AND PLATFORM SUPPORT AND ROTATOR INSTALLATION 102
FIGURE 3-5. E/M400AJP MAIN BOOM ASSEMBLY 106
FIGURE 3-6. E/M400AJP JIB AND PLATFORM SUPPORT AND ROTATOR INSTALLATION 110
FIGURE 3-7. ROTATOR ASSEMBLY 114
FIGURE 3-8. PLATFORM SUPPORT INSTALLATION - WITH LSS 118
FIGURE 3-9. CABLES/CLAMPS AND LIMIT SWITCHES INSTALLATIONS 122

SECTION 4 - PLATFORM 127

FIGURE 4-1. PLATFORM COMPONENTS INSTALLATION (FRONT ENTRY PLATFORM) 128
FIGURE 4-2. PLATFORM COMPONENTS INSTALLATION (SIDE ENTRY PLATFORM) 132
FIGURE 4-3. PLATFORM PADDING INSTALLATION (FRONT ENTRY PLATFORM) 136
FIGURE 4-4. PLATFORM PADDING INSTALLATION (SIDE ENTRY PLATFORM) 138
FIGURE 4-5. PLATFORM TOP RAIL EXTENSION INSTALLATION (SIDE ENTRY PLATFORM) 140
FIGURE 4-6. PLATFORM CONSOLE ASSEMBLY 142
FIGURE 4-7. CONTROLLER ASSEMBLY (SWING AND LIFT) 146
FIGURE 4-8. CONTROLLER ASSEMBLY (DRIVE AND STEER) 150
FIGURE 4-9. PIPE RACKS INSTALLATION 154

SECTION 5 - CYLINDER 157

FIGURE 5-1. JIB CYLINDER ASSEMBLY 158
FIGURE 5-2. JIB CYLINDER ASSEMBLY 160
FIGURE 5-3. PLATFORM LEVEL CYLINDER ASSEMBLY 162
FIGURE 5-4. PLATFORM LEVEL CYLINDER ASSEMBLY 166
FIGURE 5-5. PLATFORM LEVEL CYLINDER ASSEMBLY - JIB 168
FIGURE 5-6. PLATFORM LEVEL CYLINDER ASSEMBLY - JIB 170
FIGURE 5-7. LIFT CYLINDER ASSEMBLY - LOWER 172
FIGURE 5-8. LIFT CYLINDER ASSEMBLY - LOWER - E\M400A (SERVICE REPLACEMENT) 176
FIGURE 5-9. LIFT CYLINDER ASSEMBLY - LOWER - E/M450A (SERVICE REPLACEMENT) 178
FIGURE 5-10. LIFT CYLINDER ASSEMBLY - LOWER - E400AJP/M400AJP & E450AJ/M450AJ (SERVICE REPLACEMENT) 180
FIGURE 5-11. LIFT CYLINDER ASSEMBLY - MID 182
FIGURE 5-12. LIFT CYLINDER ASSEMBLY - MID - E/M450A (SERVICE REPLACEMENT) 186
FIGURE 5-13. MID LIFT CYLINDER ASSEMBLY (E/M450AJ & E/M400AJP (SERVICE REPLACEMENT) 188

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TABLE OF CONTENTS

FIGURE 5-14. MID LIFT CYLINDER ASSEMBLY (E/M400A) (SERVICE REPLACEMENT) 190
FIGURE 5-15. LIFT CYLINDER ASSEMBLY - UPPER 192
FIGURE 5-16. LIFT CYLINDER ASSEMBLY - UPPER - E/M450A & E/M400A (SERVICE REPLACEMENT) 196
FIGURE 5-17. LIFT CYLINDER ASSEMBLY - UPPER - E400AJP/M400AJP & E450AJ/M450AJ (SERVICE REPLACEMENT) 198
FIGURE 5-18. MASTER CYLINDER ASSEMBLY 200
FIGURE 5-19. MASTER CYLINDER ASSEMBLY 204
FIGURE 5-20. MASTER CYLINDER ASSEMBLY 206
FIGURE 5-21. MASTER CYLINDER ASSEMBLY 208
FIGURE 5-22. STEER CYLINDER ASSEMBLY 210
FIGURE 5-23. TELESCOPE CYLINDER ASSEMBLY 212
FIGURE 5-24. TELESCOPE CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT) 216
FIGURE 5-25. TELESCOPE CYLINDER ASSEMBLY - E/M400A (SERVICE REPLACEMENT) 220
FIGURE 5-26. TELESCOPE CYLINDER ASSEMBLY - E/M450A (SERVICE REPLACEMENT) 222
FIGURE 5-27. TELESCOPE CYLINDER ASSEMBLY - E450AJ/M450AJ (SERVICE REPLACEMENT) 224
FIGURE 5-28. TELESCOPE CYLINDER ASSEMBLY 226
FIGURE 5-29. TELESCOPE CYLINDER ASSEMBLY - E450AJ/M450AJ (SERVICE REPLACEMENT) 228
FIGURE 5-30. COUNTERBALANCE VALVE ASSEMBLY 230

SECTION 6 - HYDRAULIC 233

FIGURE 6-1. STANDARD HYDRAULIC DIAGRAM (E/M400A & E/M450A) 234
FIGURE 6-2. STANDARD HYDRAULIC DIAGRAM (E/M450AJ) 238
FIGURE 6-3. STANDARD HYDRAULIC DIAGRAM (E/M400AJP) 242
FIGURE 6-4. HYDRAULIC DIAGRAM LIST 246

SECTION 7 - ELECTRICAL 247

FIGURE 7-1. ELECTRICAL DIAGRAM LIST 248
FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (WITH MAC CHARGER) 250
FIGURE 7-3. HARNESS COMPONENTS INSTALLATION (WITH DELTA-Q CHARGER) 264

SECTION 8 - DECALS 277

FIGURE 8-1. DECAL INSTALLATION (Prior to SN 0300096809) 278
FIGURE 8-2. DECAL INSTALLATION 284

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 289

FIGURE 9-1. MODEL E/M400A/AJPNARROW & E/M450A/AJ STANDARD PARTS 290
FIGURE 9-2. MODEL E/M400A/AJPNARROW & E/M450A/AJ VARIABLE PARTS 292

SECTION 10 - SPECIAL OPTIONS 293

FIGURE 10-1. SPECIAL OPTIONS 294

PART NUMBER INDEX 297

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FIGURE 5-11. LIFT CYLINDER ASSEMBLY - MID

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**MID LIFT CYLINDER ASSEMBLY**	
	1683713	Ref	**Mid Lift Cylinder Assembly E/M450A (Prior to SN 0300058843)**	1-A
	1684057	Ref	**Mid Lift Cylinder Assembly E/M450A (SN 0300058843 through 0300091052)**	3-B
	1684493	Ref	**Mid Lift Cylinder Assembly E/M450A (Original Equipment) (SN 0300091053 through 0300189898)**	B
	1683825	Ref	**Mid Lift Cylinder Assembly E/M450AJ (Prior to SN 0300056571)**	1-A
	1683942	Ref	**Mid Lift Cylinder Assembly E/M450AJ (SN 0300056571 through 0300086021)**	3-C
	1684452	Ref	**Mid Lift Cylinder Assembly E/M450AJ (Original Equipment) (SN 0300086022 through 0300189898)**	C
	1684027	Ref	**Mid Lift Cylinder Assembly E/M400A (Original Equipment) (Prior to SN 0300080496)**	1-A
	1684447	Ref	**Mid Lift Cylinder Assembly E/M400A (SN 0300080496 through 0300086021)**	B
	1684454	Ref	**Mid Lift Cylinder Assembly E/M400A (Original Equipment) (SN 0300086022 through 0300189901)**	A
	1683942	Ref	**Mid Lift Cylinder Assembly E/M400AJP (Prior to SN 0300091053)**	3-C
	1684452	Ref	**Mid Lift Cylinder Assembly E/M400AJP (Original Equipment) (SN 0300091053 through 0300189901)**	C
		Ref	**Note: Original Cylinder may have been replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1		Ref	Barrel Weldment Options:	
1A	1683516	1	1683713 Cylinder (Note: Includes Item #25)	
1B	1683829	1	1683825 Cylinder (Note: Includes Item #25)	
1C	1683943	1	1683942 & 1684452 Cylinders	
1D	1684025	1	1684027 & 1684447 & 1684454 Cylinders	
1E	1684056	1	1684057 & 1684493 Cylinder	
2		Ref	Rod Weldment Options:	
2	1683021	1	1683713 & 1683825 Cylinders (Note: Includes Item #25)	
2	1683944	1	1683942, 1684057, 1684452 & 1684493 Cylinders	
2	1684026	1	1684027 & 1684447 & 1684454 Cylinders	
3		Ref	Retainer Options:	
3	1120305	1	1683713, 1684057, 1683825, 1683942 & 1684452 Cylinders	
3	1120108	1	1684027, 1684447 & 1684454 Cylinder	
3	1120375	1	1684493 Cylinder	
4		Ref	Piston Options:	
4	3480242	1	1683713, 1684057, 1683825, 1683942, 1684452 & 1684493 Cylinders	
4	3480115	1	1684027 Cylinder (Not Shown) (Use p/n 3480240) Note: When replacing the piston you must order seal kit p/n 2902419 separate from piston.	
4	3480240	1	1684447 & 1684454 Cylinder (Not Shown)	
5		Ref	Head Options:	
5	1683712	1	1683713, 1684057, 1683825, 1683942, 1684452 & 1684493 Cylinders	
5	1681344	1	1684027, 1684447 & 1684454 Cylinder	
6		Ref	Nut, Hex Options:	
6	3300281	1	1683713, 1684057, 1683825, 1683942, 1684452 & 1684493 Cylinders	

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FIGURE 5-28. TELESCOPE CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1683911	Ref	**TELESCOPE CYLINDER ASSEMBLY**	4-C
		Ref	Note: Original Cylinder may have been replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	1683912	1	Barrel	
1A	1120110	1	Cap, End	
1A	0100035	AR	Compound, Locking (Note: Not Included with Barrel Weldment)	
2	1683980	1	Rod Weldment	
3	3480239	1	Piston	
4		Ref	Head	
4	1683863	1	Head (use p/n 1683584) **(Prior to SN 0300122425)**	
4	1683584	1	Head **(SN 0300122425 through 0300189901)**	
5	4567963	1	Spacer, Tube	
6	4640807	1	Counterbalance Valve Assembly (See Items 201-203 for Breakdown)	
7	0641512	4	Bolt 5/16in-18NC x 1-1/2in	
8	2220883	2	Plug, O-Ring	
9	3951402	1	Setscrew 1/4in-20NC x 1/4in	
10	3322205	1	Locknut	
11	3760318	1	Ring, Retaining	
12	See Note	2	Ring, Wear, (Note: Use Item 100)	
13	See Note	1	Seal, Cap, (Note: Use Item 100)	
14	See Note	1	O-Ring, (Note: Use Item 100)	
15	See Note	1	Ring, Wear, (Note: Use Item 100)	
16	See Note	1	O-Ring, (Note: Use Item 100)	
17	See Note	1	Seal, Rod, (Note: Use Item 100)	
18	See Note	1	Wiper, (Note: Use Item 100)	
19	0100011	AR	Compound, Locking	
19	0100038	AR	Primer, Locking	
21	2220628	1	Fitting, Elbow	
22	2220516	1	Fitting, Cap	
23	3340882	1	Wear Pad Assembly	
24	0641424	2	Bolt 1/4in-20NC x 3in	
25	2220596	1	Fitting, Elbow	
26	2220517	1	Fitting, Cap	
27	3311405	2	Nut 1/4-20NC	
28	4751400	4	Flatwasher 1/4in	
100	2901903	1	Seal Kit (Includes Items 12-18)	
	4640807	Ref	**COUNTERBALANCE VALVE ASSEMBLY**	D
201	4640771	1	Cartridge, Counterbalance	
201	2900770	1	Seal Kit - 4640771 Cartridge	
202	4640709	1	Cartridge, Vented Counterbalance	
202	2900770	1	Seal Kit - 4640709 Cartridge	
203	3790113	2	O-Ring (Between Valve and Cylinder Block)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001148903	Ref	**Deutsch DT Connector Kit**	
	1001148904	Ref	**Deutsch HD Connector Kit**	
	1001148905	Ref	**Packard Connector Kit**	
	1001148906	Ref	**Various Connector Kit**	
		Ref	**Filter Kits: (M400 & M450 Only)**	
		Ref	**Kubota Engines**	
	1001111013	1	Combined Filter Kit **(SN 0300088539 to Present)**	
	1001110140	1	Engine Oil and Fuel Filter Kit (E/M400) **(SN 0300088539 through 0300189901)**	
	1001110140	1	Engine Oil and Fuel Filter Kit (E/M450) **(SN 0300088539 through 0300189898)**	
	1001109716	1	Hydraulic and Air Filter Kit (E/M400) **(SN 0300088539 through 0300189901)**	
	1001109716	1	Hydraulic and Air Filter Kit (E/M450) **(SN 0300088539 through 0300189898)**	
		Ref	**Yanmar Engines**	
	1001111012	1	Combined Filter Kit (Use p/n 1001111011) **(Prior to SN 0300088539)**	
	1001110142	1	Engine Oil and Fuel Filter Kit **(Prior to SN 0300088539)**	
	1001109715	1	Hydraulic and Air Filter Kit **(Prior to SN 0300088539)**	
	4060959	Ref	**Footswitch Shield (Note: Move Decal to Shield)**	
	0259398	Ref	**Headlight and Taillights Installation**	
	2920150	2	Headlight	
	7016356	2	Lamp, Seal Beam (1 Per Headlight)	
	2920118	2	Taillight	
	7016623	2	Bulb - Brake (1 Per Taillight)	
	7016624	1	Bulb - Tail (1 Per Taillight)	
		Ref	**Hose Kit Options:**	
		Ref	**E/M400**	
	1001239570	Ref	**Hose Kit - Platform Valve**	
	1001198659	Ref	**Hose Kit - Power Track (Upper) (E/M400AJ)**	
	1001198657	Ref	**Hose Kit - Power Track (Upper) (E/M400AJP)**	
	1001198658	Ref	**Hose Kit - Power Track (Upper) (E/M400AJPn)**	
		Ref	**E/M450**	
	1001198660	Ref	**Hose Kit - Power Track (Upper) (E/M450AJ)**	
		Ref	**Hydraulic Fluids**	
	2300028	Ref	Mobil DTE 10 Excel 15	
	70010346	1 gal/3.8l	Mobil DTE 10 Excel 15	
	2300042	Ref	SYN Biodegradable	
	2300027	Ref	Mobil EAL 224H - Biodegradable	
		Ref	**Inverter Installation (E Models Only)**	
	0272034	Ref	**CE Spec**	
	0271687	Ref	**Australian Spec**	
	1001148971	Ref	**Lanyard Kit (Platform Bolt-on)**	
	1001222307	Ref	**LSS Override Kit**	
	1001151286	Ref	**Manual Descent Add-on Kit (Italy Specs)**	
	2902423	Ref	**Mechron Service Kit (For the addition of separate fuse for engine generator controller)**	
	2915225	Ref	**Platform Conversion Kit (Converts Front to Side Entry) (E/M450A)**	
		Ref	**Platform Entry Kits**	
	1001142504	Ref	**Drop Bar (Replacing Swing Gate with Drop Bar)**	
	1001142505	Ref	**Swing Gate (Replacing Drop Bar with Swing Gate)**	

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