

PARTS MANUAL (ANSI/CSA & KC)

ROUGH TERRAIN SCISSORS

MODELS SJ9250 RT

165942AD December 20, 2022

SKYJACK

MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >

Table Of Contents

1.0 Platform Related Parts

1.1 Platform and Hinged Railing Assembly 8
1.2 Gate Latch Assembly 13
1.3 Powered Extension Platform Assembly 14
1.4 Quick Release Pin Assemblies 16
1.5 Powered Extension Cylinder Mounting Assembly 18
1.6 Powered Extension Cylinder Assembly 19
1.7 Powered Extension Power Unit Assembly 20
1.8 Platform Extension Platform Control Console 22
1.9 Electrical Panel Connection - Platform Extension (ANSI/CSA) 24
1.10 Electrical Panel Connection - Platform Extension (KC) 26
1.11 Safety D-Ring Assembly 29
1.12 Hydraulic Hose Connection - Single Powered Extension Cylinder 30
1.13 Hydraulic Hose Connection - Dual Powered Extension Cylinders 31
1.14 Platform Control Console Assembly - Hardware 32
1.15 Platform Control Console Assembly - Switches 34
1.16 Drive/Steer Controller Assembly 36

2.0 Scissor Related Parts

2.1 Scissor Assembly 40
2.2 Scissor Arm Mounting Hardware 42
2.3 Scissor Arm Connecting Hardware 44
2.4 Hydraulic Hose Connection - Lift Cylinders 46
2.5 Lift Cylinder Assembly 48
2.6 Holding Valve Assembly 50
2.7 Holding Valve Assembly with Pressure Switch (KC) 51
2.8 Electrical Connection - Scissor Assembly 52
2.9 Horn, Light and Beeper Assembly (ANSI/CSA) 54
2.10 Horn, Light, Beeper and Transducer Assembly (KC) 56
2.11 Scissor Control Cable Assembly 58

3.0 Base Related Parts

3.1 Base Assembly 62
3.2 Fuel Cabinet Assembly 64
3.3 Fuel Tank Assembly 67
3.4 Hydraulic/Electrical Cabinet Assembly 68
3.5 Hydraulic Oil Tank Assembly 74
3.6 Hydraulic Hose Connections - Base 76
3.7 Hydraulic Hose Connections - Hydraulic Cabinet 78
3.8 Cushion Valve Assembly 80
3.9 Emergency Lowering Valve Assembly 81
3.10 Electrical Cabinet Components - Emergency Lowering and Powerdeck 82
3.11 Electrical Connections - Emergency Lowering (ANSI/CSA) 84
3.12 Electrical Connections - Emergency Lowering & Platform Retraction (KC) 86
3.13 Motion Control Valve Assembly 88
3.14 Auto Reset Brake Manifold Assembly 89
3.15 Main Manifold Assembly 90
3.16 Electrical Panel Assembly (ANSI/CSA) 92
3.17 Electrical Panel Assembly (KC) 94
3.18 Electrical Harnesses 98
3.19 Base Controls Assembly 100

4.0 Axle Related Parts

4.1 Front Axle Assembly 102

MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >

Table Of Contents

4.2 Front Axle Hardware 106
4.3 Steer Cylinder Assembly 108
4.4 Drive Motor Assembly 109
4.5 Drive Shaft Assembly 110
4.6 Center Drive Assembly 112
4.7 Brake Caliper and Mount 114
4.8 Rear Axle Assembly 116

5.0 Engine Related Parts

5.1 Engine Roll-Out Tray Assembly 120
5.2 Engine Control Panel 124
5.3 Kubota Diesel Engine Assembly (D1305) 126
5.4 Kubota Diesel Fuel System (D1305) 132
5.5 Kubota Diesel Engine Harness 134
5.6 Air Intake Assembly (Kubota Diesel Engine D1305) 136
5.7 Exhaust Manifold Assembly (Kubota Diesel Engine D1305) 137
5.8 Hydraulic Pump Assembly 138
5.9 Engine Roll-Out Tray Hardware (GM Engine) 140
5.10 GM Dual Fuel Engine Assembly 142
5.11 Bell Housing Assembly (GM Engine) 148
5.12 Engine Interface Harness (GM Engine) 150
5.13 Hose Connections - GM Dual Fuel Engine 152

6.0 Optional Equipment

6.1 Electrical Panel Connections - Hydraulic Outrigger 156
6.2 Hydraulic Hose Connections - Hydraulic Outrigger 158
6.3 Outrigger Assembly 160
6.4 Outrigger Cylinder Assembly 162
6.5 Outrigger Manifold Assembly 163
6.6 Outrigger/Hydraulic Generator Control Console Assembly 164
6.7 3500W Generator and Oil Cooler Assembly 166
6.8 Hydraulic Hose Connections - 3500W Hydraulic Generator and Oil Cooler 168
6.9 Air Hose to Platform Option 170
6.10 Platform AC Outlet Assembly 171
6.11 Cold Start Option 172
6.12 Gate Hand Rail Kit 173
6.13 GP-108 Controller 174
6.14 Flashing Light Relay Harness 175

7.0 Labels

7.1 Label Kits 177
7.2 Labels - Left and Right Sides 178
7.3 Labels - Front and Rear 180
7.4 Labels - Hydraulic Outriggers 181
7.5 Labels - Miscellaneous 182
7.6 Labels - Control Consoles 184

8.0 Tables

8.1 Fluid Tables 188

MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >

Index No.	Skyjack Part No.	Qty.	Description
			NOTE: Part numbers followed by "DG" indicate dark grey painted parts.
1	118248DG	1	WELDMENT, Inner scissor (1st level)
2	118252DG	1	WELDMENT, Outer scissor (1st level)
3	(Ref.)	-	SCISSOR PIN ASSEMBLY (For components, refer to Section 2.3)
4	108915DG	1	WELDMENT, Inner scissor (2nd level)
5	118253DG	1	WELDMENT, Outer scissor (3rd level)
6	111954	1	SAFETY BAR LATCH ASSEMBLY
	102780	1	• LATCH, Rotary (RH)
	111534	1	• KNOB, Latch
	103404	3	• WASHER, Lock (5/16")
	103864	3	• BOLT, Hex head (5/16-18 x 1", Grade 5)
	103857	1	• BOLT, Hex head (1/4-20 x 1", Grade 5)
	104000	1	• WASHER, Lock (1/4")
	103980	1	• NUT, Hex head (1/4-20, Grade 5)
7	(Ref.)	-	TOP SLIDER ASSEMBLY (For components, refer to Section 2.2)
8	108919DG	1	WELDMENT, Inner scissor (4th level)
9	(Ref.)	-	CENTER BAR PIVOT ASSEMBLY (For components, refer to Section 2.3)
10	108918DG	1	WELDMENT, Outer scissor (4th level)
11	118249DG	1	WELDMENT, Inner scissor (3rd level)
12	(Ref.)	-	LIFT CYLINDER ASSEMBLY (For components, refer to Section 2.5)
13	108914P	1	WELDMENT, Outer scissor (2nd level)
14	(Ref.)	-	LIMIT SWITCH PIN ASSEMBLY (For components, refer to Section 2.3)
15	(Ref.)	-	BOTTOM SLIDER ASSEMBLY (For components, refer to Section 2.2)
16	118034	4	PIN, Lift cylinder rod end
	118336	4	PIN, Lift cylinder base end
17	103887	8	BOLT, Hex head (5/16"-18 x 3/4")
18	103404	8	WASHER, Lock (5/16")
19	(Ref.)	-	SCISSOR CENTER PIN ASSEMBLY (For components, refer to Section 2.3)
20	(Ref.)	-	KIT, Flashing light (For components, refer to Section 2.9)
21	131952	16	WASHER, Fender
	105395	16	BUMPER, Scissor arm
	103936	16	BOLT, Socket (3/8" -16 x 1", Grade 5) (ANSI/CSA)
	114926	16	BOLT, Socket (3/8" -16 x 1.25", Grade 5) (KC)
22	(Ref.)	-	GUARD, Cable carrier (For components, refer to Section 2.8)
23	-	-	CLAMP ASSEMBLY
	103078	7	• CLAMP, Double (G10)
	103632	4	• BOLT, Self-tapping (1/4-14 x 0.75)
	103995	13	• WASHER, Flat (1/4")
	103856	9	• BOLT, Hex head (1/4-20 x 0.75, Grade 5)

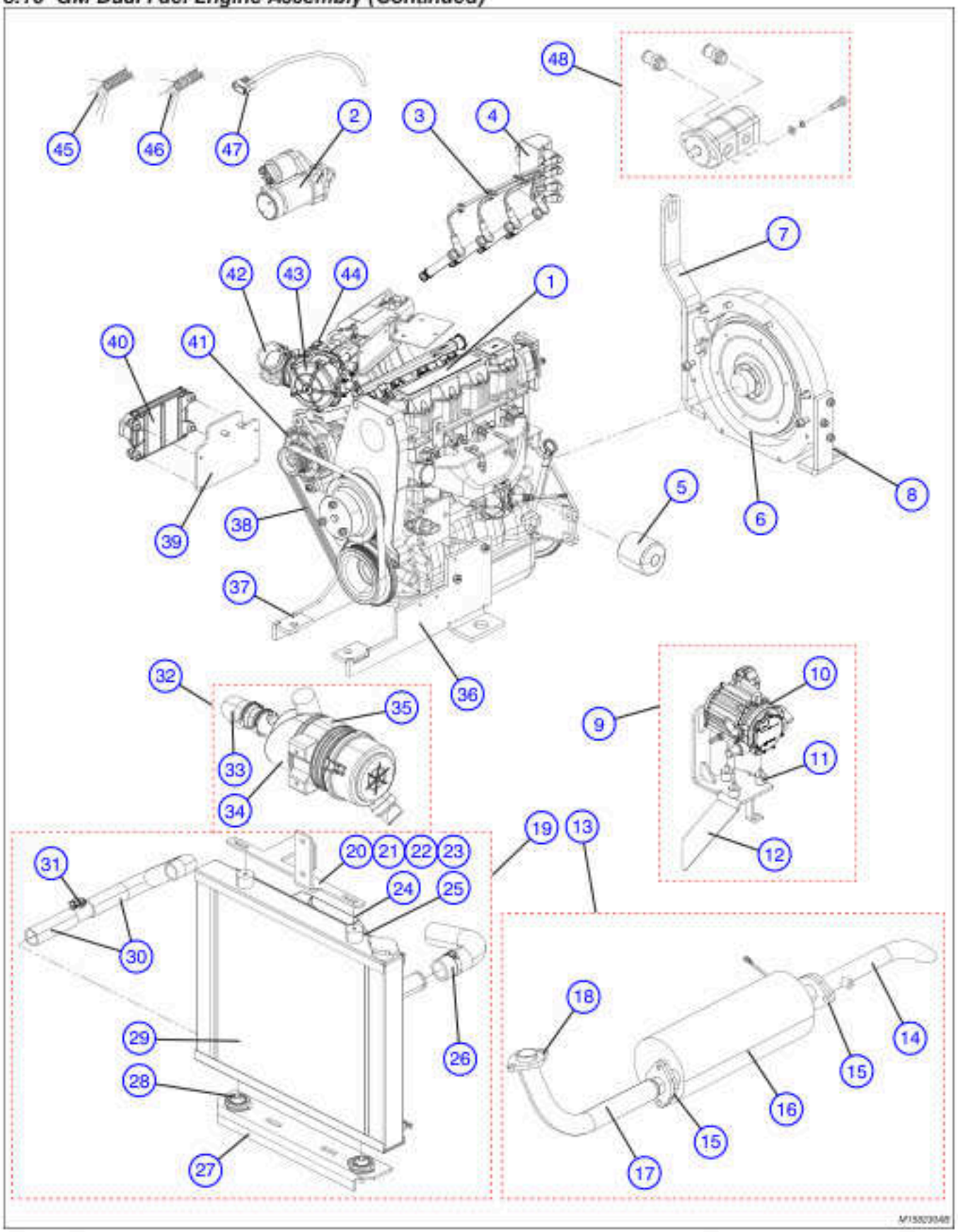
MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >

Index No.	Skyjack Part No.	Qty.	Description
			NOTE: Part numbers followed by "DG" indicate dark grey painted parts.
1	(Ref.)	-	SCISSOR ARM ASSEMBLY (For components, refer to Section 3.1)
2	108144	4	GUARD, Cable carrier
3	103958	2	BOLT, Machine (#8-32 x 3/4") (ANSI/CSA)
4	112249	2	WASHER, Lock (#8) (ANSI/CSA)
5	115658	1	LIMIT SWITCH, Sealed (end-of-stroke) (ANSI/CSA)
6	110853	2	BOLT, Flat head (1/4-20 x 0.625, Grade 5) (ANSI/CSA)
7	110428	1	PLATE, Limit switch mounting (ANSI/CSA)
8	110429	1	PLATE, Limit switch locking (top) (ANSI/CSA)
9	133298	2	BOLT, Machine (#10-32 x 1.75")
10	104694	2	WASHER, Flat (#10)
11	104185	2	WASHER, Lock (#10)
12	133130DG	1	COVER, Limit switch
13	112449	2	SCREW, Hex head machine (1/4"-20 x 1")
14	104000	2	WASHER, Lock (1/4")
15	103995	4	WASHER, Flat (1/4")
16	103980	2	NUT, Hex head (1/4"-20, Grade 5)
17	100967	2	CAM, Limit switch
18	119375	1	LIMIT SWITCH, Sealed (26 ft. lift cutout)
19	119296	1	LIMIT SWITCH, Roller plunger (high speed cutout)
20	(Ref.)	-	PLATFORM CONTROL CABLE ASSEMBLY (For components, refer to Section 1.14)
21	(Ref.)	-	HORN, LIGHT & BEEPER ASSEMBLY (For components, refer to Section 2.9) or Section 2.10)

MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >

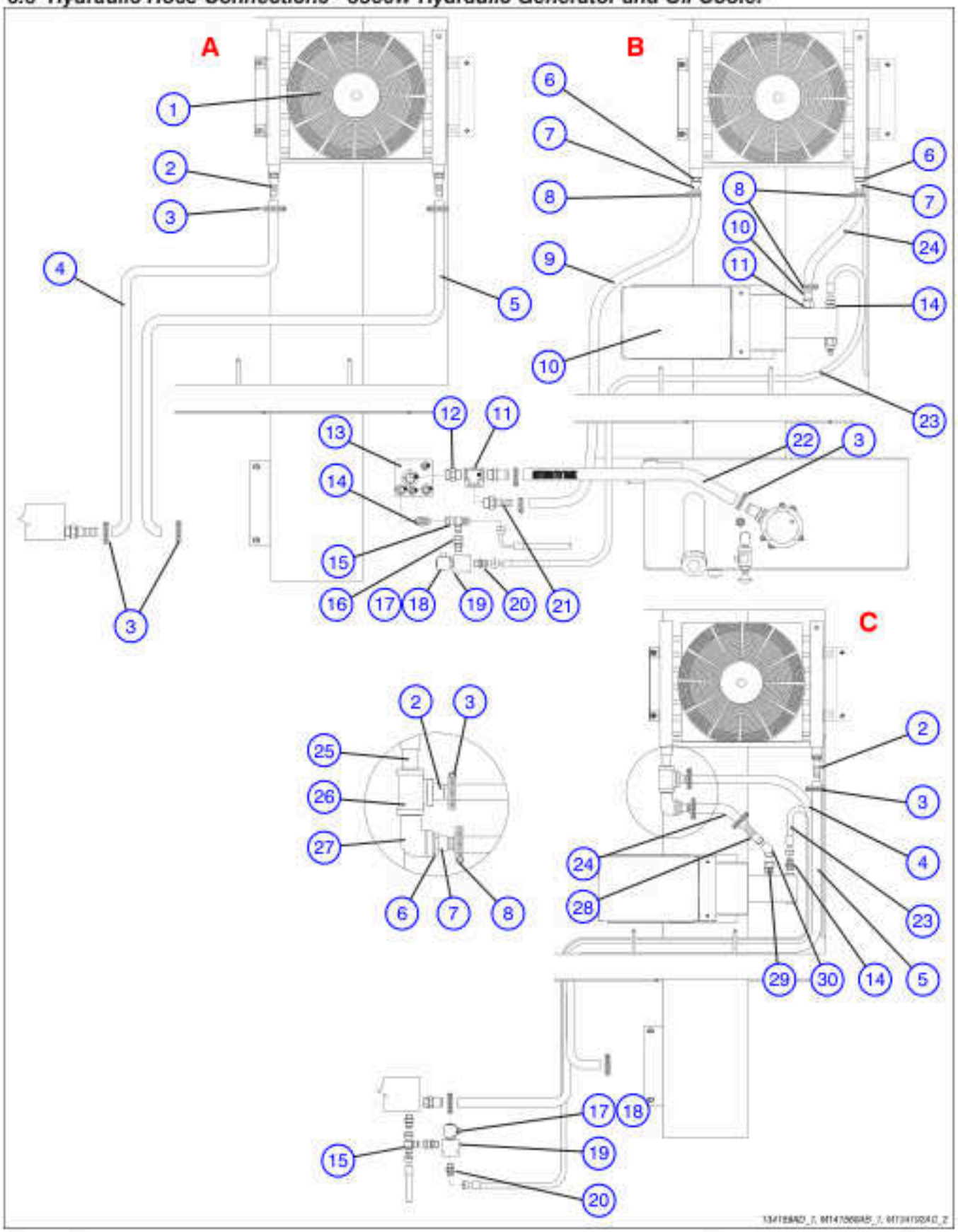
Index No.	Skyjack Part No.	Qty.	Description
			NOTE: Part numbers followed by "DG" indicate dark grey painted parts.
1	133583DG	1	WELDMENT, Base (ANSI/CSA)
	157837DG	1	WELDMENT, Base (KC)
2	(Ref.)	-	CABINET ASSEMBLY (Fuel side) (For components, refer to Section 3.2)
3	(Ref.)	-	CABINET ASSEMBLY (Hydraulic/Electric side) (For components, refer to Section 3.4)
4	151983	2	LADDER
5	-	-	HARDWARE, Ladder
	103473	8	• BOLT, Hex head (3/8-16 x 1")
	103472	8	• WASHER, Flat (3/8")
	103999	8	• WASHER, Lock (3/8")
	(Ref.)	-	ENGINE (For Kubota engine components, refer to Page 5.3) (For GM engine components, refer to Page 5.10)
7	(Ref.)	-	ENGINE ROLL OUT TRAY & COVER ASSEMBLY (For components, refer to Section 5.1)
8	(Ref.)	-	FRONT DRIVE AXLE ASSEMBLY (For components, refer to Section 4.1)
9	126361	8	BOLT, Hex head (1/2"-13 x 1.75", Grade 8)
10	126286	8	WASHER, Lock (1/2", heavy duty)
11	123856	8	NUT, Hex head (1/2"-13, Grade 8)
12	(Ref.)	-	CENTER DRIVE ASSEMBLY (For components, refer to Section 4.6)
13	103907	4	BOLT, Hex head (1/2"-13 x 1.5")
14	103470	4	WASHER, Lock (1/2")
15	104379	4	WASHER, Flat (.50 SAE, Hard, Zinc)
16	129390	1	WHEEL ASSEMBLY (#6 *"Carlisle"*,10 ply air filled, 75 psi) (ANSI/CSA)
	129389	2	• RIM/TIRE ASSEMBLY (Left hand, 3.75" backspace)
	129388	2	• RIM/TIRE ASSEMBLY (Right hand, 3.75" backspace)
	130034	1	WHEEL ASSEMBLY (#6 *"Carlisle"*,10 ply foam filled, 75 psi)
	130033	2	• RIM/TIRE ASSEMBLY (Left hand, 3.75" backspace)
	130032	2	• RIM/TIRE ASSEMBLY (Right hand, 3.75" backspace)
	134520	1	WHEEL ASSEMBLY (#6 *"OTR"*, 10 ply air filled, 75 psi) (non-marking) (ANSI/CSA)
	134518	2	• RIM/TIRE ASSEMBLY (Left hand, 3.75" backspace)
	132515	2	• RIM/TIRE ASSEMBLY (Right hand, 3.75" backspace)
	134519	1	WHEEL ASSEMBLY (#6 *"OTR"*, 10 ply foam filled) (non-marking) (ANSI/CSA)
	134517	2	• RIM/TIRE ASSEMBLY (Left hand, 3.75" backspace)
	134516	2	• RIM/TIRE ASSEMBLY (Right hand, 3.75" backspace
17	103315	32	NUT, Wheel (5/8"-18)

MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >



MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >

6.8 Hydraulic Hose Connections - 3500W Hydraulic Generator and Oil Cooler



MidWestTech | Skyjack SJ9250 RT Rough Terrain Scissor Lift Parts Manual | Publication 1... Order the manual at mid-west-tech.com >