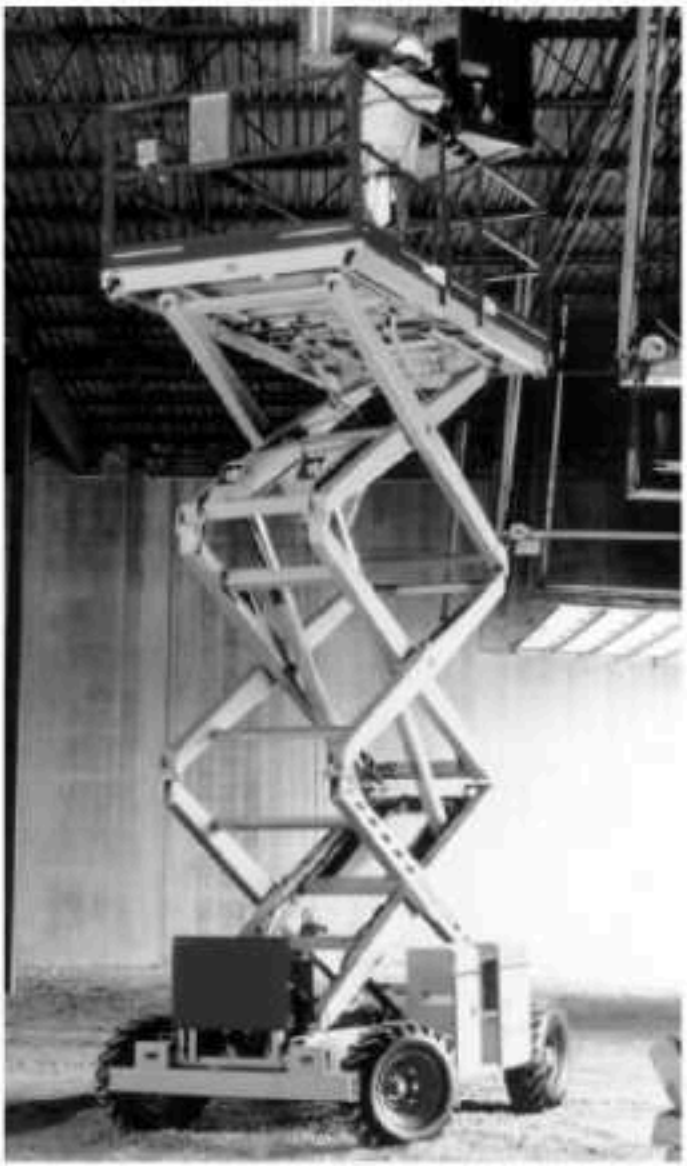
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OPERATING MAINTENANCE & PARTS MANUAL



SJ-800 Series

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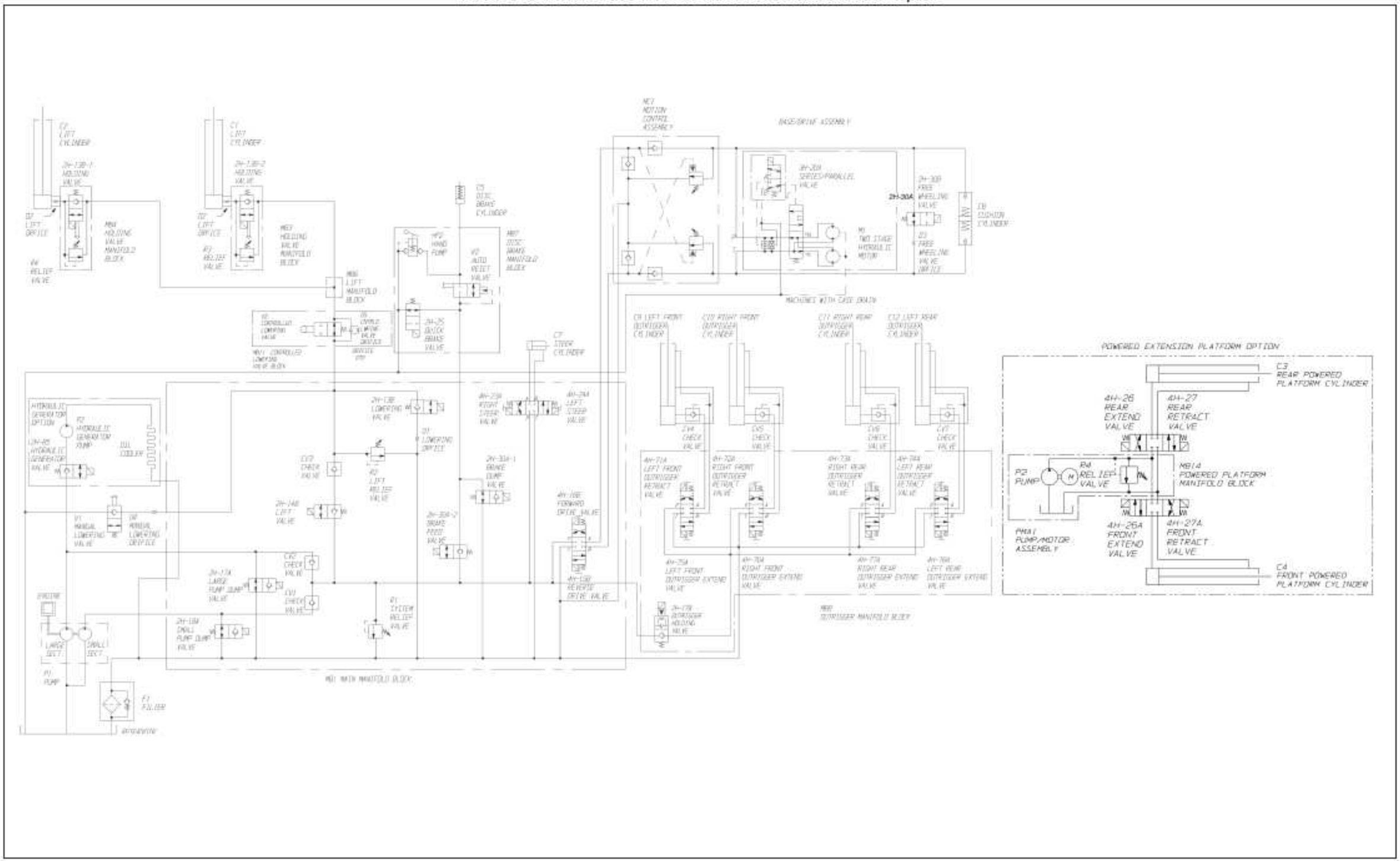
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FIGURE 3-20. HYDRAULIC SCHEMATIC - With Powered Extension Platform Option



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TROUBLESHOOTING INFORMATION

ELECTRICAL SYSTEM

TROUBLE	PROBABLE CAUSE	REMEDY
PLATFORM WILL NOT LIFT FROM PLATFORM OR BASE CONTROLS WITH OUTRIGGERS RETRACTED (LIFT OPERATES CORRECTLY WITH OUTRIGGERS EXTENDED) (31' Models with Serial Number 36381 and Above) (41' Models with Serial Number 40841 and Above)	1. Outriggers not fully retracted.	1. Fully retract outrigger cylinders.
	2. Loose or broken Jumper wire from wire 10A to wire #36 on Base Terminal Block (TB-3).	2. Check continuity. Replace if defective.
	3. Loose or broken wire #36 from Base Terminal Block (TB-3) to Relay (61CR).	3. Check continuity. Replace if defective.
	4. Defective Relay (61CR).	4. Check relay. Replace if defective.
	5. Loose or broken wire #02 from Relay (61CR) to Base Terminal Block (TB-1).	5. Check continuity. Replace if defective.
	6. Defective Outrigger Limit Switch (LS64).	6. Check switch. Replace if defective.
	7. Loose or broken wire #64 from Outrigger Limit Switch (LS64) to Outrigger Terminal Block (TB-4).	7. Check continuity. Replace if defective.
	8. Loose or broken wire #64 from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS63).	8. Check continuity. Replace if defective.
	9. Defective Outrigger Limit Switch (LS63).	9. Check continuity. Replace if defective.
	10. Loose or broken wire #63 from Outrigger Limit Switch (LS63) to Outrigger Terminal Block (TB-4).	10. Check continuity. Replace if defective.
	11. Loose or broken wire #63 from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS62).	11. Check continuity. Replace if defective.
	12. Defective Limit Switch (LS62).	12. Check switch. Replace if defective.
	13. Loose or broken wire #62 from Outrigger Limit Switch (LS62) to Outrigger Terminal Block (TB-4).	13. Check continuity. Replace if defective.
	14. Loose or broken wire #62 from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS61).	14. Check continuity. Replace if defective.
	15. Defective Outrigger Limit Switch (LS61).	15. Check switch. Replace if defective.
	16. Loose or broken wire #61 from Outrigger Limit Switch (LS61) to Outrigger Terminal Block (TB-4).	16. Check continuity. Replace if defective.
	17. Loose or broken wire #65 from Relay (61CR) to Relay (65CR).	17. Check continuity. Replace if defective.
	18. Defective Relay (65CR).	18. Check relay. Replace if defective.
	19. Loose or broken wire #02 from Relay (65CR) to Base Terminal Block (TB-1).	19. Check continuity. Replace if defective.
	20. Loose or broken wire #10A from Base Terminal Block (TB-1) to Relay (65CR).	20. Check continuity. Replace if defective.

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Table 5-5. Torque Specifications

DIRECTIONAL VALVE MOUNTING BOLTS	28 - 32 lbf . in.	3.1612 - 3.6128 Nm
WHEEL MOUNTING BOLTS AND NUTS	135-145 lbf. ft.	183.06-196.62 Nm
CENTER DRIVE SPROCKET MTG. BOLTS	110-115 lbf. ft (Blue LOCTITE)	149.16-155.94 Nm

CARTRIDGE

SIZE	08	38	58	10	12	16
lbf . ft (max)	20	20	20	25	35	50
lbf . in (max)	240	240	240	300	420	600
Nm (max)	27.12	27.12	27.12	33.90	47.46	67.80

COILS

SIZE	All Coils
lbf . ft (max)	4 to 5
lbf . in (max)	48 to 60
Nm (max)	5.42 to 6.78

SAE PLUGS

Size	2	4	5	6	8	10	12	16
lbf . ft (max)	3	10	15	15	25	25	30	35
lbf . in (max)	36	120	180	180	300	300	360	420
Nm (max)	4.07	13.56	20.34	20.34	33.90	33.90	40.68	47.46

Newton-Meter = Nm **Pound-force foot = lbf.ft** **Pound-force inch = lbf.in**

Table 5-6. General Specifications

ENGINE POWER - Ford gasoline	38 Hp Water Cooled (VSG-413)
ENGINE POWER - Kubota gasoline	23 Hp Water Cooled (WG-750)
ENGINE POWER - Kubota diesel (Later Models)	25.5 Hp Water Cooled (D1105-B)
ENGINE POWER - Kubota diesel (Early Models)	19.5 Hp Water Cooled (D-905)
ENGINE POWER - Kubota diesel (Early Models)	21 Hp Water Cooled (DH-850)
BATTERY	12 Volt, 60 Ampere Hour
TIRES	Refer to Table 5-3.
INSIDE TURNING RADIUS (2WD) Model 88XX	124" (3.15m)
INSIDE TURNING RADIUS (4WD) Model 88XX	129" (3.28m)
INSIDE TURNING RADIUS (2WD) Model 82XX	108" (2.74m)
INSIDE TURNING RADIUS (4WD) Model 82XX	158" (4.01m)
OUTSIDE TURNING RADIUS (2WD) Model 88XX	224" (5.69m)
OUTSIDE TURNING RADIUS (4WD) Model 88XX	236" (5.99m)
OUTSIDE TURNING RADIUS (2WD) Model 82XX	213" (5.41m)
OUTSIDE TURNING RADIUS (4WD) Model 82XX	248" (6.30m)
GROUND UNDERCLEARANCE - Model 88XX	7" (.178m)
GROUND UNDERCLEARANCE - Model 82XX	8" (.203m)
FLOOR LOAD RATING - Model 8831	47.14 psi (3.31 kg/cm^2)
FLOOR LOAD RATING - Model 8831F	67.14 psi (4.72 kg/cm^2)
FLOOR LOAD RATING - Model 8841	42.27 psi (2.97 kg/cm^2)
FLOOR LOAD RATING - Model 8841F	69.79 psi (4.91 kg/cm^2)
FLOOR LOAD RATING - Model 8231	46.49 psi (3.27 kg/cm^2)
FLOOR LOAD RATING - Model 8231F	66.31 psi (4.66 kg/cm^2)
FLOOR LOAD RATING - Model 8241F	69.31 psi (4.87 kg/cm^2)

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FIGURE 6-17. BASE, AXLES AND WHEELS

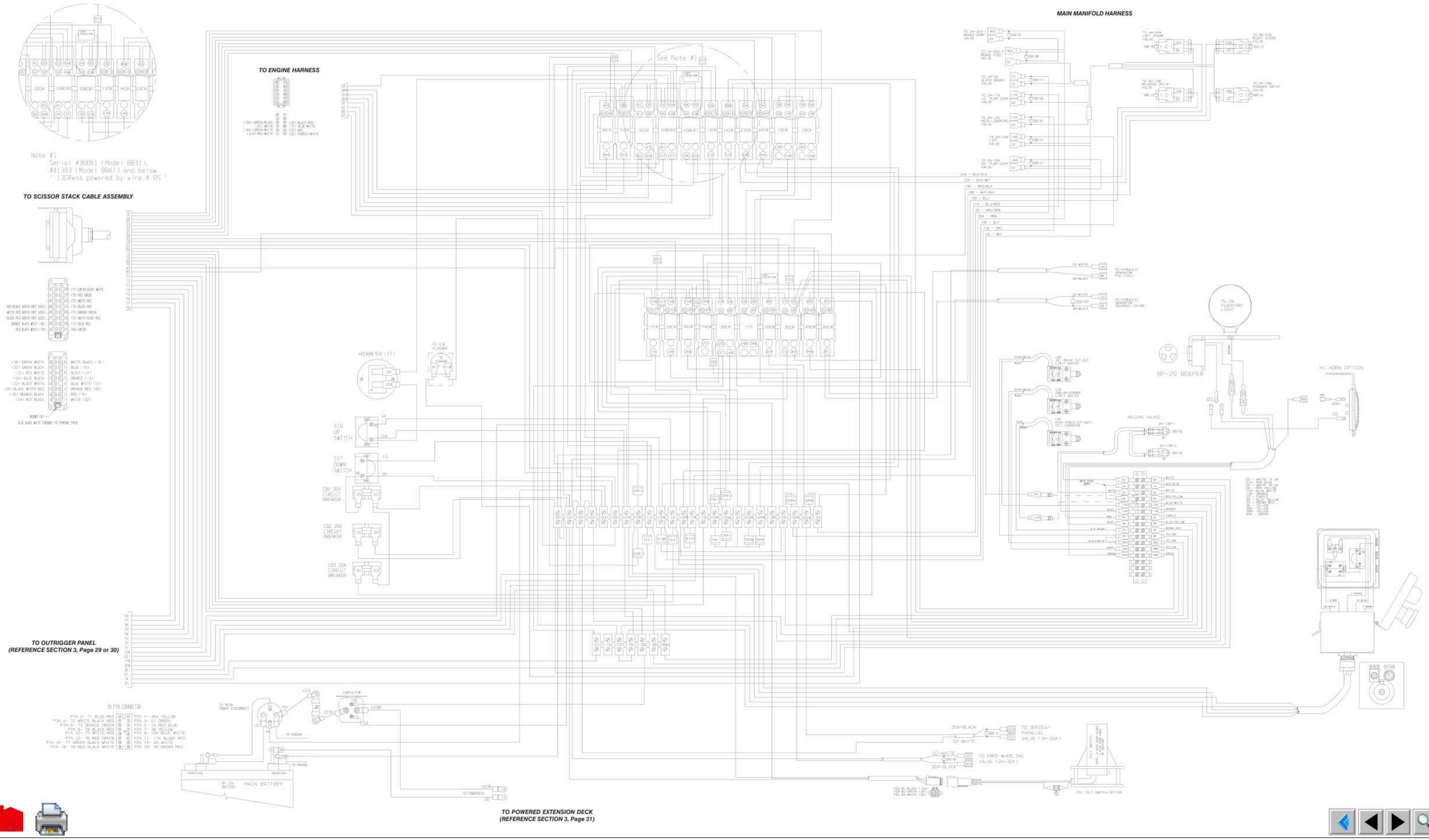
Index No.	Skyjack Part No.	Description	Units per Assy.
1	115818	WELDMENT, Base (Models 88xx)	1
	112766	WELDMENT, Base (Models 82xx)	1
	116077	WELDMENT, Base (w/Scissor Guard option)(Models 88xx)	1
	111396	WELDMENT, Base (w/Scissor Guard option)(Models 82xx)	1
	116078	WELDMENT, Base (w/Outrigger option)(Models 88xx)	1
	112007	WELDMENT, Base (w/Outrigger option)(Models 82xx)	1
	116080	WELDMENT, Base (w/Extended Outrigger option)(Models 88xx)	1
	112784	WELDMENT, Base (w/Extended Outrigger option)(Models 82xx)	1
	116079	WELDMENT, Base w/Scissor Guard & Outrigger option)(Models 88xx)	1
2	(Ref.)	ENGINE ROLL-OUT TRAY ASSEMBLY (For components, refer to Figure 6-43, Page 108 or Figure 6-44, Page 110)	1
3	(Ref.)	DISC BRAKE ASSEMBLY (For components, refer to Figure 6-21, Page 65)	1
4	(Ref.)	HYDRAULIC/ELECTRIC CABINET ASSEMBLY (For components, refer to Figure 6-35, Page 92)	1
5	(Ref.)	FUEL TANK/HYDRAULIC OIL TANK CABINET ASSY. (For components, refer to Figure 6-27, Page 82 or Figure 6-28, Page 83)	1
	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	8
	103472	• WASHER, Flat 3/8"	16
	103999	• WASHER, Lock 3/8"	8
	103978	• NUT, Hex 3/8-16	8
6	110045	LADDER, 2 step (31' Models)	2
	110046	LADDER, 3 step (41' Models)	2
	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	8
	103472	• WASHER, Flat 3/8	16
	103999	• WASHER, Lock 3/8	8
	103978	• NUT, Hex 3/8-16	8
7	(Ref.)	AXLE ASSEMBLY, Front idle (2wd) (For components, refer to Figure 6-22, Page 66)	1
	(Ref.)	AXLE ASSEMBLY, Front drive (4wd) (For components, refer to Figure 6-24, Page 70)	1
	103907	• BOLT, Flat-hd 1/2-13 x 1-3/4 lg.	8
	106665	• BOLT, Flat-hd 1/2-13 x 1-3/4 lg.	8
	103470	• WASHER, Flat 1/2	8
	103471	• NUT, Hex 1/2-13	8
8	(Ref.)	AXLE ASSEMBLY, Rear drive (For components, refer to Figure 6-26, Page 80)	1
	103907	• BOLT, Flat-hd 1/2-13 x 1-3/4 lg.	8
	103470	• WASHER, Flat 1/2	8
	103471	• NUT, Hex 1/2-13	8
9	(Ref.)	CENTER DRIVE AND DRIVE SHAFT (For components, refer to Figure 6-25, Page 74)	1
	103907	• BOLT, Hex-hd 1/2-13 x 1-1/2" lg.	4
	103470	• WASHER, Lock 1/2	4
	103468	• WASHER, Flat 1/2" (replaces 103478)	4

Parts list continued on the following page.

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FIGURE 3-8. ELECTRICAL PANEL DIAGRAM - CE with All Options



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