SERVICE & MAINTENANCE

Models

30e
35e
n35e
40e
n40e
45e

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SUBJECT - SECTION, PARAGRAPH **PAGE NO.**

INTRODUCTION - MAINTENANCE SAFETY PRECAUTIONS A-1
EFFECTIVITY CHANGES A-2

SECTION 1 - SPECIFICATIONS

1.1 CAPACITIES. 1-1
1.2 COMPONENT DATA. 1-1
1.3 PERFORMANCE DATA. 1-1
1.4 TORQUE SPECIFICATIONS. 1-3
1.5 LUBRICATION. 1-3
1.6 PRESSURE SETTINGS. 1-4
1.7 CYLINDER SPECIFICATIONS. 1-4
1.8 MAJOR COMPONENT WEIGHTS. 1-5
1.9 CRITICAL STABILITY WEIGHTS. 1-6
1.10 SERIAL NUMBER LOCATIONS. (See Figure 1-3) 1-6

SECTION 2 - PROCEDURES

2.1 GENERAL 2-1
2.2 SERVICING AND MAINTENANCE GUIDELINES. 2-1
2.3 LUBRICATION INFORMATION. 2-2
2.4 CYLINDERS - THEORY OF OPERATION. 2-3
2.5 VALVES - THEORY OF OPERATION. 2-3
2.6 MOTOR CONTROLLER. 2-4
2.7 WEAR PADS. 2-10
2.8 BOOM MAINTENANCE. 2-10
2.9 CYLINDER CHECKING PROCEDURES. 2-15
2.10 CYLINDER REPAIR. 2-20
2.11 CYLINDER REMOVAL AND INSTALLATION. 2-26
2.12 TILT INDICATOR SWITCH LEVELING PROCEDURE. (If Equipped.) 2-29
2.13 BOOM LIMIT SWITCHES. 2-29
2.14 POWER TRACK REMOVAL PROCEDURE (35/n35/40/n40/45 electric). 2-29
2.15 PRESSURE SETTING PROCEDURES. (In Sequence) (See Figure 2-29) 2-29
2.16 SWING BEARING. 2-35
2.17 DRIVE TORQUE HUB. (See Figure 2-34) 2-41
2.18 DRIVE BRAKE ASSEMBLY. 2-44
2.19 MID AND LOWER LIFT CYLINDER BLEEDING PROCEDURE. (40/n40/45 electric) 2-46
2.20 BOOM SYNCHRONIZING PROCEDURE. (40/n40/45 electric) 2-46
2.21 FREE WHEELING PROCEDURE. 2-47
2.22 FOOTSWITCH ADJUSTMENT. 2-47
2.23 AXLE DRAIN PLATES 2-47
2.24 PREVENTIVE MAINTENANCE AND INSPECTION SCHEDULE. 2-48

SECTION 3 - TROUBLESHOOTING

3.1 GENERAL 3-1
3.2 TROUBLESHOOTING INFORMATION. 3-1
3.3 HYDRAULIC CIRCUIT CHECKS. 3-1

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FIGURE NO.	TITLE	PAGE NO.
1-1.	Torque Chart.	1-7
1-2.	Lubrication Chart - 30 electric. (Sheet 1 of 6).	1-8
1-2.	Lubrication Chart - 30 electric. (Sheet 2 of 6).	1-9
1-2.	Lubrication Chart - 35/n35 electric. (Sheet 3 of 6).	1-10
1-2.	Lubrication Chart - 35/n35 electric. (Sheet 4 of 6).	1-11
1-2.	Lubrication Chart - 40/n40/45 electric. (Sheet 5 of 6).	1-12
1-2.	Lubrication Chart - 40/n40/45 electric. (Sheet 6 of 6).	1-13
1-3.	Serial Number Locations - 30 electric. (Sheet 1 of 3).	1-14
1-3.	Serial Number Locations - 35/n35 electric. (Sheet 2 of 3).	1-15
1-3.	Serial Number Locations - 40/n40/45 electric. (Sheet 3 of 3).	1-16
2-1.	Sevcon Controller Troubleshooting Flow Charts. (Sheet 1 of 4).	2-6
2-1.	Sevcon Controller Troubleshooting Flow Charts. (Sheet 2 of 4).	2-7
2-1.	Sevcon Controller Troubleshooting Flow Charts. (Sheet 3 of 4).	2-8
2-1.	Sevcon Controller Troubleshooting Flow Charts. (Sheet 4 of 4).	2-9
2-2.	Location and Thickness of Wear Pads.	2-10
2-3.	Locations of Components - Platform Support (Model 30).	2-10
2-4.	Location of Components - Removal of Base Boom. (Model 30)	2-11
2-5.	Location of Components - Platform Support. (Models 35/n35/40/n40/45)	2-12
2-6.	Location of Components - Slave Leveling Cylinder.	2-12
2-7.	Location of Components - Removal of Base Boom. (Models 35/n35/40/n40/45)	2-12
2-8.	Location of Components - Aft End of Fly Boom Wear Pad Adjustments.	2-13
2-9.	Location of Components - Removal of Telescope Cylinder.	2-13
2-10.	Location of Components - Front Base Boom Wear Pad Adjustments.	2-13
2-11.	Boom Prop Configurations - 30 electric. (Sheet 1 of 3)	2-17
2-11.	Boom Prop Configurations - 35/n35 electric. (Sheet 2 of 3)	2-18
2-11.	Boom Prop Configurations - 35/n35 electric. (Sheet 3 of 3)	2-19
2-12.	Removal of Cylinder Retainer.	2-20
2-13.	Removal of Set Screws.	2-21
2-14.	Removal of Seals and O-Rings.	2-21
2-15.	Removal of Piston Seals.	2-21
2-16.	Rod Seal Installation.	2-22
2-17.	Wiper Seal Installation.	2-22
2-18.	Poly-Pak Piston Seal Installation.	2-22
2-19.	"O"-Ring Installation.	2-22
2-20.	Piston Seal Kit Installation.	2-22
2-21.	Steer Cylinder Piston Installation.	2-23
2-22.	Installing Retainer Ring on Telescope Cylinder Barrel.	2-23
2-23.	Lift Cylinder Assembly.	2-24
2-24.	Upper Boom Lift Cylinder Removal.	2-26
2-25.	Mid Boom Lift Cylinder Removal.	2-27
2-26.	Lower Boom Lift Cylinder Removal.	2-27
2-27.	Upper Telescope Cylinder Removal.	2-28
2-28.	Tilt Switch.	2-29
2-29.	Pressure Setting Procedures - 30 electric. (Sheet 1 of 3)	2-32
2-29.	Pressure Setting Procedures - 35/n35 electric. (Sheet 2 of 3)	2-33
2-29.	Pressure Setting Procedures - 40/n40/45 electric. (Sheet 3 of 3)	2-34
2-30.	Swing Bearing Feeler Gauge Check.	2-35
2-31.	Swing Bearing Tolerance Boom Placement - 30/35/n35 electric.	2-36
2-31.	Swing Bearing Tolerance Boom Placement - 40/n40/45 electric.	2-38
2-32.	Swing Bearing Tolerance Measuring Point.	2-38
2-33.	Swing Bearing Torquing Sequence.	2-40
2-34.	Drive Hub Assembly - 30/35/n35/40/n40/45.	2-43
2-35.	Drive Brake Assembly - 30/35/n35/40/n40/45.	2-45
2-36.	Port "P" Location.	2-46
2-37.	Synchronizing Valve.	2-47
2-38.	Upright Leveling.	2-47

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2-39.	Drive Brake Release	2-47
2-40.	Drive Axle Drain Plate	2-48
3-1.	Electrical Schematic 30 electric. (Sheet 1 of 4)	3-12
3-1.	Electrical Schematic 30 electric. (Sheet 2 of 4)	3-13
3-1.	Electrical Schematic 30 electric. (Sheet 3 of 4)	3-14
3-1.	Electrical Schematic 30 electric. (Sheet 4 of 4)	3-15
3-2.	Electrical Schematic 35/40/45 electric. (Sheet 1 of 4)	3-16
3-2.	Electrical Schematic. 35/40/45 electric. (Sheet 2 of 4)	3-17
3-2.	Electrical Schematic. 35/40/45 electric. (Sheet 3 of 4)	3-18
3-2.	Electrical Schematic. 35/40/45 electric. (Sheet 4 of 4)	3-19
3-3.	Hydraulic Diagram - 30 electric.	3-20
3-4.	Hydraulic Diagram - 35 electric.	3-21
3-5.	Hydraulic Diagram - 40/45 electric.	3-22

TABLE NO.	TITLE	PAGE NO.
1-1	Hydraulic Oil	1-3
1-2	Lubrication Specifications	1-3
1-3	Cylinder Specifications	1-4
1-4	Cylinder Specifications	1-4
1-5	Cylinder Specifications	1-4
1-6	Cylinder Specifications	1-5
2-1	Cylinder Piston Nut Torque Specifications	2-25
2-2	Holding Valve Torque Specifications	2-25
2-3	PREVENTIVE MAINTENANCE AND INSPECTION SCHEDULE	2-49
3-1	PLATFORM ASSEMBLY - TROUBLESHOOTING	3-2
3-2	BOOM ASSEMBLY - TROUBLESHOOTING	3-3
3-2	BOOM ASSEMBLY - TROUBLESHOOTING	3-4
3-2	BOOM ASSEMBLY - TROUBLESHOOTING	3-5
3-2	BOOM ASSEMBLY - TROUBLESHOOTING	3-6
3-3	TURNTABLE ASSEMBLY - TROUBLESHOOTING	3-7
3-4	CHASSIS ASSEMBLY - TROUBLESHOOTING	3-8
3-4	CHASSIS ASSEMBLY - TROUBLESHOOTING	3-9
3-5	HYDRAULIC SYSTEM - TROUBLESHOOTING	3-10
3-6	ELECTRICAL SYSTEM - TROUBLESHOOTING	3-11

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1.8 MAJOR COMPONENT WEIGHTS.

Table 1-7. electric Drive Series Lifts

	30 electric		35 electric		n35 electric		40 electric		n40 electric		45 electric	
	LB.	KG.	LB.	KG.	LB.	KG.	LB.	KG.	LB.	KG.	LB.	KG.
Platform & Support	155	70.3	215	97.5	215	97.5	215	97.5	215	97.5	215	97.5
Upper Boom Complete	256	116	615	279	615	279	615	279	615	279	810	367.4
Mid Boom Complete	–	–	–	–	–	–	440	199.6	440	199.6	550	249
Lower Boom Complete	182	83	550	249	550	249	440	199.6	440	199.6	550	249
Upper Lift Cylinder	83	38	95	43.1	95	43.1	89	40.4	89	40.4	89	40.4
Mid Lift Cylinder	–	–	–	–	–	–	75	34	75	34	95	43
Lower Lift Cylinder	83	38	104	47.2	104	47.2	104	47.2	104	47.2	110	50
Telescope Cylinder	–	–	55	24.9	55	24.9	55	24.9	55	24.9	85	38.5
Upper Upright	230	104	350	159	350	159	225	102	225	102	225	102
Lower Upright	–	–	–	–	–	–	97	44	97	44	97	44
Turntable	450	204	850	386	850	386	948	430	948	430	948	430
Battery Box (Includes Batteries)	400	181	550	249	550	249	600	272	600	272	600	272
Chassis 4 ft. 11 in. (Includes Solid Tires & Spacer Plate)	–	–	–	–	4,600	2086	–	–	4,662	2115	–	–
Chassis 5 ft. 9 in. (Includes Pneumatic Tires)	4,825	1100	3,400	1542	–	–	3,646	1653	–	–	4,295	1948
Chassis 5 ft. 9 in. (Includes Foam Filled Tires)	–	–	3,800	1724	–	–	4,045	1835	–	–	4,695	2130
Counterweight	960	435	3240	1470	3240	1470	3850	1746	3850	1746	3850	1746
Machine Complete 4 ft. 11 in. (GVW)	–	–	–	–	10,200	4627	–	–	11,830	5366	–	–
Machine Complete 5 ft. 9 in. (GVW)	4,770	2164	9,500	4309	–	–	10,700	4853	–	–	11,800	5352

⚠ WARNING

SELECT LIFTING EQUIPMENT WITH CAPACITY CAPABLE OF SAFELY SUPPORTING WEIGHT.

1.9 CRITICAL STABILITY WEIGHTS.

⚠ WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION (FOR EXAMPLE: BATTERIES, FILLED TIRES, PLATFORM) DO NOT MODIFY UNIT IN ANY WAY TO AFFECT STABILITY.

Table 1-8. electric Drive Series Lifts

		30 electric		35 electric		n35 electric		40 electric		n40 electric		45 electric	
		LB.	KG.	LB.	KG.	LB.	KG.	LB.	KG.	LB.	KG.	LB.	KG.
Counterweight (If Removable)	Tail	960	435	3240	1470	3240	1470	3850	1746	3850	1746	3850	1746
	Frame	–	–	–	–	395	179	–	–	750	340	–	–
Tire & Wheel (Ballasted Only)	Poly Filled	150	68	160	72	–	–	160	72	–	–	165	74.8
	Solid	–	–	–	–	112	51	–	–	112	51	–	–
Platform	4 ft. (1.22M)	90	41	90	41	90	41	90	41	90	41	90	41
	5 ft. (1.52M)	–	–	100	45	–	–	100	45	–	–	100	45
Battery	Each	77	35	100	45	100	45	120	54	120	54	120	54

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SECTION 3. TROUBLESHOOTING

3.1 GENERAL.

This section contains troubleshooting information to be used for locating and correcting most of the operating problems which may develop in the aerial platform. If a problem should develop which is not presented in this section or which is not corrected by listed corrective actions, technically qualified guidance should be obtained before proceeding with any maintenance.

3.2 TROUBLESHOOTING INFORMATION.

The troubleshooting procedures applicable to the aerial platform are listed and defined in Tables 3-1 through 3-6. As an aid to table use, the aerial platform is divided into six major groups, each covered separately within this section. These groups are as follows: platform assembly, boom assembly, turntable assembly, chassis assembly, hydraulic system and electrical system.

Each malfunction within and individual group or system is followed by a listing of probable causes which will enable determination of the applicable remedial action. The probable causes and the remedial action should, where possible, be checked in order listed in the tables.

It should be noted that there is no substitute for a thorough knowledge of the equipment and related systems.

It should be recognized that the majority of the problems arising in the machine will be centered in the hydraulic and electrical systems. For this reason, every effort has been made to ensure that all likely problems in these areas are given the fullest possible treatment. In the remaining machine groups only those problems which are symptomatic of greater problems of which have more than one probable cause and remedy are included. This means that problems for which the probable cause and remedy may be immediately obvious are not listed in this section.

The first rule for troubleshooting any circuit that is hydraulically operated and electrically controlled is to determine if the circuit is lacking hydraulic oil or electrical control power. This can be ascertained by overriding the bypass valve (mechanically or electrically) so that oil is available to the function valve, then overriding the function valve mechanically. If the function performs satisfactorily, the problem exists with the control circuit.

3.3 HYDRAULIC CIRCUIT CHECKS.

The first reference for improper function of a hydraulic system, where the cause is not immediately apparent, should be the Troubleshooting Chart. The best place to begin the problem analysis is at the power source (pump). Once it is determined that the pump is serviceable, then a systematic check of the circuit components, beginning with the control would follow. For aid in troubleshooting, refer to the Illustrated Parts Manual for hydraulic diagrams of the various circuits.

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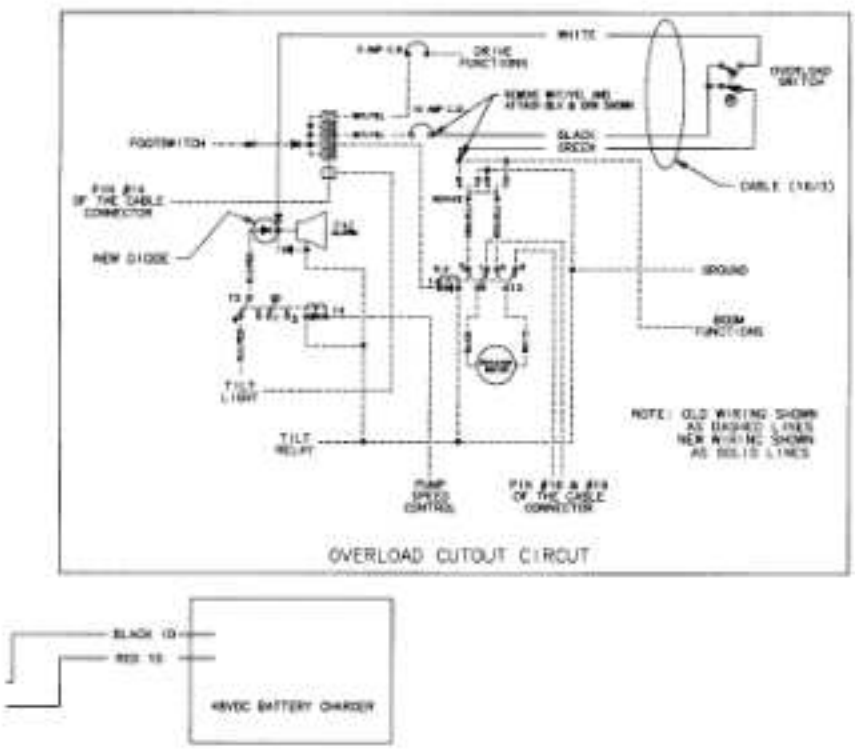


Figure 3-2. Electrical Schematic. 35/40/45 electric. (Sheet 4 of 4)

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