SERVICE & MAINTENANCE

Model
80HX
80HX+6
80HXER

3120863

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1.7 MAJOR COMPONENTS WEIGHTS

Table 1-7. Major Component Weights

Component	Lbs.	KG.
Platform w/o Control Box	236	107
Boom (includes Lift Cylinder, Rotator, and Support)	4816	2184
Turntable Complete (includes Engine)	14972	6790
Frame Complete (includes Tires and Wheels)	9290	4213
Complete Machine - 2WD No Options	28605	12973
Complete Machine - 4WD No Options	29106	13200
Complete Machine (80HX+6) 2WD No Options	31856	14447

1.8 CYLINDER SPECIFICATIONS

Table 1-8. Cylinder Specifications

DESCRIPTION	BORE	STROKE	ROD DIA.
Master Level	63.5 mm	387 mm	31.75 mm
Slave Level	63.5 mm	387 mm	31.75 mm
Lift	203 mm	781 mm	89 mm
Lockout (Oscillating Axle)	102 mm	124 mm	31.75 mm
Lockout (4WD)	102 mm	108 mm	31.75 mm
Telescope	89 mm	6551 mm	63.5 mm
Steer (2WD)	76 mm	205 mm	31.75 mm
Steer (4WD)	76 mm	249 mm	38 mm
Extend-A-Reach			
Lift	76 mm	322 mm	51 mm
Slave	89 mm	184 mm	44.5 mm

1.9 BOOM TAPE

Red - 99 cm.

Yellow - 86.4 cm.

Blue - 492.5 cm.

1.10 CRITICAL STABILITY WEIGHTS

Table 1-9. Critical Stability Weights

Component		Lb.s	KG.
Engines	Deutz F4L912	837	380
	Ford LRG 423	410	186
	Cummins 4B3.9	680	309
Tire & Wheels	15x19.5 Tire	130	59
	Wheel	72	33
	Foam Fill	320	145

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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.

Troubleshooting and maintenance information pertaining to the prime mover (engine) that are not contained in this manual are contained in the applicable engine maintenance manual.

3.2 TROUBLESHOOTING INFORMATION

The troubleshooting procedures are listed and defined in Table 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 an 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 also 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 and 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 control 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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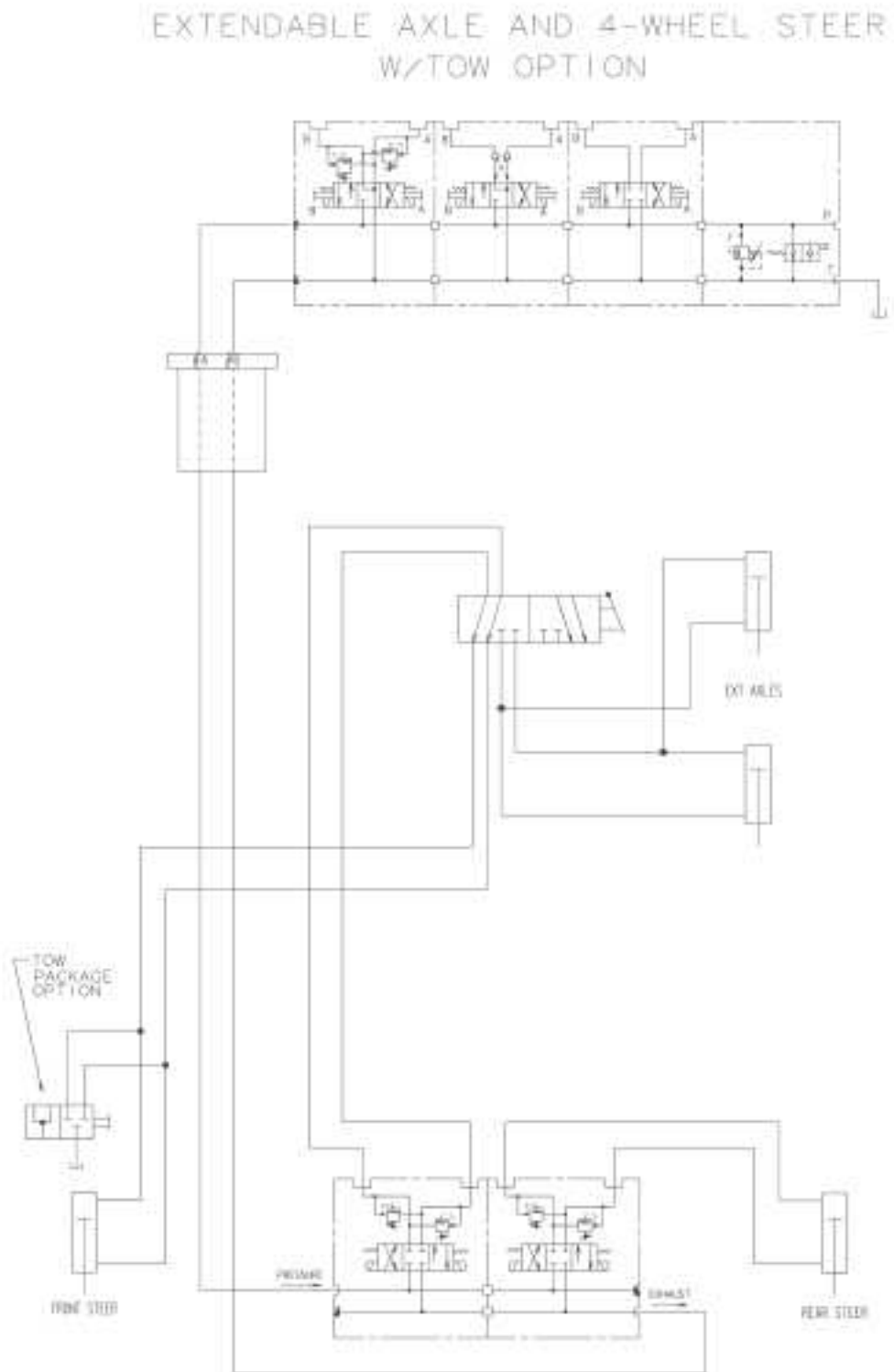


Figure 3-9. Hydraulic Schematic (Sheet 5 of 6)

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