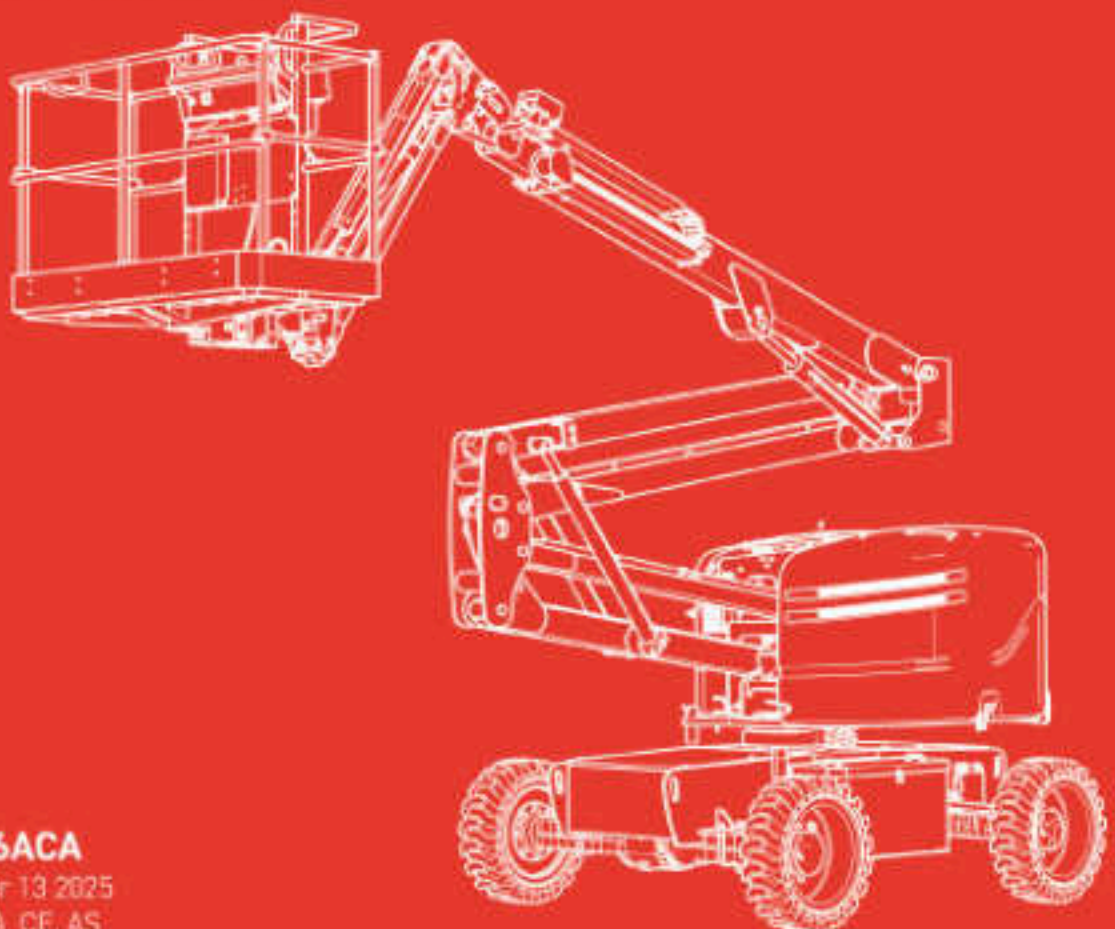
SKYJACK

SERVICE MANUAL

SJ45 AJHE+

ARTICULATING BOOMS



256676ACA
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ANSI/CSA, CE, AS

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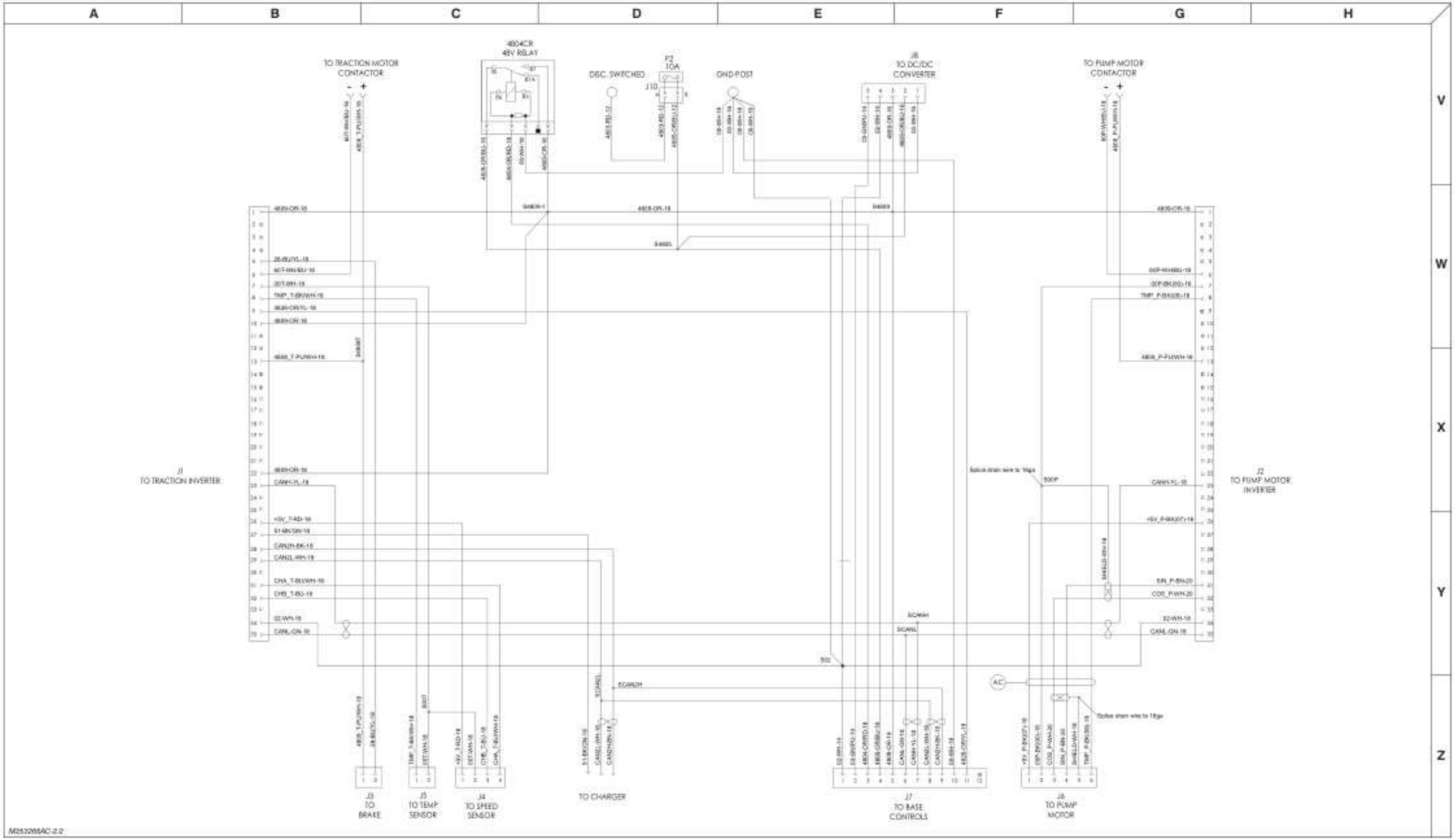
2.8 Hydraulic Specifications

Description		Metric	US
Pumps			
System Pump	Displacement - Static	11 cc/rev	0.67 ci/rev, 8.7 gpm @ 3000 gpm
	System Pump Pressure	210 bar	3045 psi
Filters			
High Pressure Filter	Max. Operating Pressure	10 µm/25	87 psi
Return Filter	Max. Operating Pressure	10 µm/40	22 psi
Motors			
Drive Motor	Displacement - Low	21 cc/rev	1.55 ci/rev
	Displacement - High	38 cc/rev	2.32 ci/rev
Swing Motor	Motor Displacement	65.56 cc/rev	4 ci/rev
	Maximum Swing Pressure	121 bar	1750 psi
Cylinders			
Extension Cylinder	Bore	5.1 cm	2 in
	Rod Diameter	3.2 cm	1.25 in
	Stroke	1.7 m	67 in
	Maximum Boom Pressure	207 bar	3000 psi
Main Lift Cylinder	Bore	10.2 cm	4 in
	Rod Diameter	4.5 cm	1.75 in
	Stroke	64.6 cm	25.44 in
	Maximum Lift Pressure	207 bar	3000 psi
Riser Cylinder	Bore	6.4 cm	2.5 in
	Rod Diameter	4.5 cm	1.75 in
	Stroke	92 cm	36.21 in
	Maximum Lift Pressure	207 bar	3000 psi
	Maximum Lower Pressure	190 bar	2750 psi
Steering Cylinder	Maximum Steering Pressure	207 bar	3000 psi

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3.26 Inverter Panel Harness Schematic



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Section 4 – Troubleshooting Information

4.1 Introduction

The following pages contain a table of Troubleshooting for locating and correcting most service trouble which can develop. Careful and accurate analysis of the systems listed in the table of Troubleshooting will localize the trouble more quickly than any other method. This manual cannot cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, isolate whether the problem is electrical or hydraulic, and then isolate and correct the specific problem.

The content of this section is separated into "probable cause" and "remedy." The information in the left-hand column, preceded by a number, represents the "probable cause." The information in the right-hand column, in bold text, represents the "remedy" to the "probable cause" directly beside it. See the example below for clarification.

1. Probable cause	**Remedy**

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5.4-5 Master Cylinder Replacement

1. Make sure the MEWP is parked on a firm and level surface.

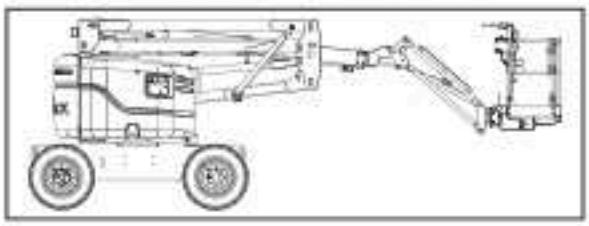
⚠ WARNING

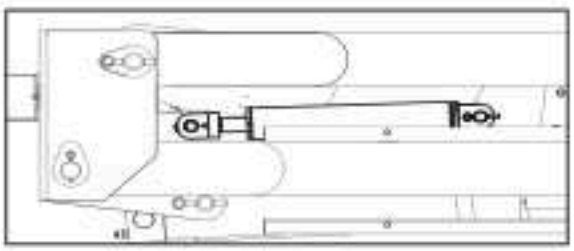
Ensure that there is sufficient room for boom to swing and elevate.

⚠ WARNING

Be aware of overhead obstructions or other possible hazards around the machine when lifting.

2. By using the base controls, position the machine as below to allow for easy work access to the basket/jib boom and the master cylinder.





3. Turn the main disconnect switch to the off position. Lock the switch to prevent unauthorized use during this procedure.

NOTE

Make sure all components are secured before lifting or removing them.

4. Using straps, secure the main boom on suitable lifting equipment such as a crane.

5. Secure the master cylinder with straps. See below for an example.



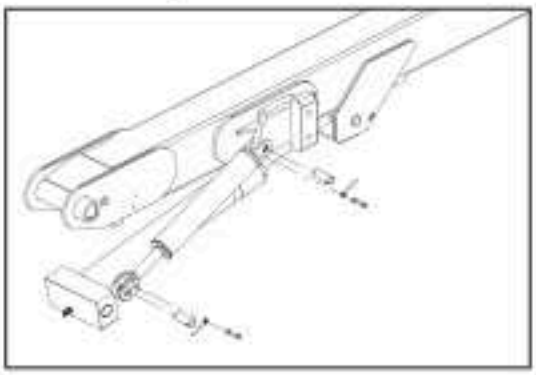
⚠ CAUTION

Label all electrical cables and hydraulic hoses before removal

⚠ CAUTION

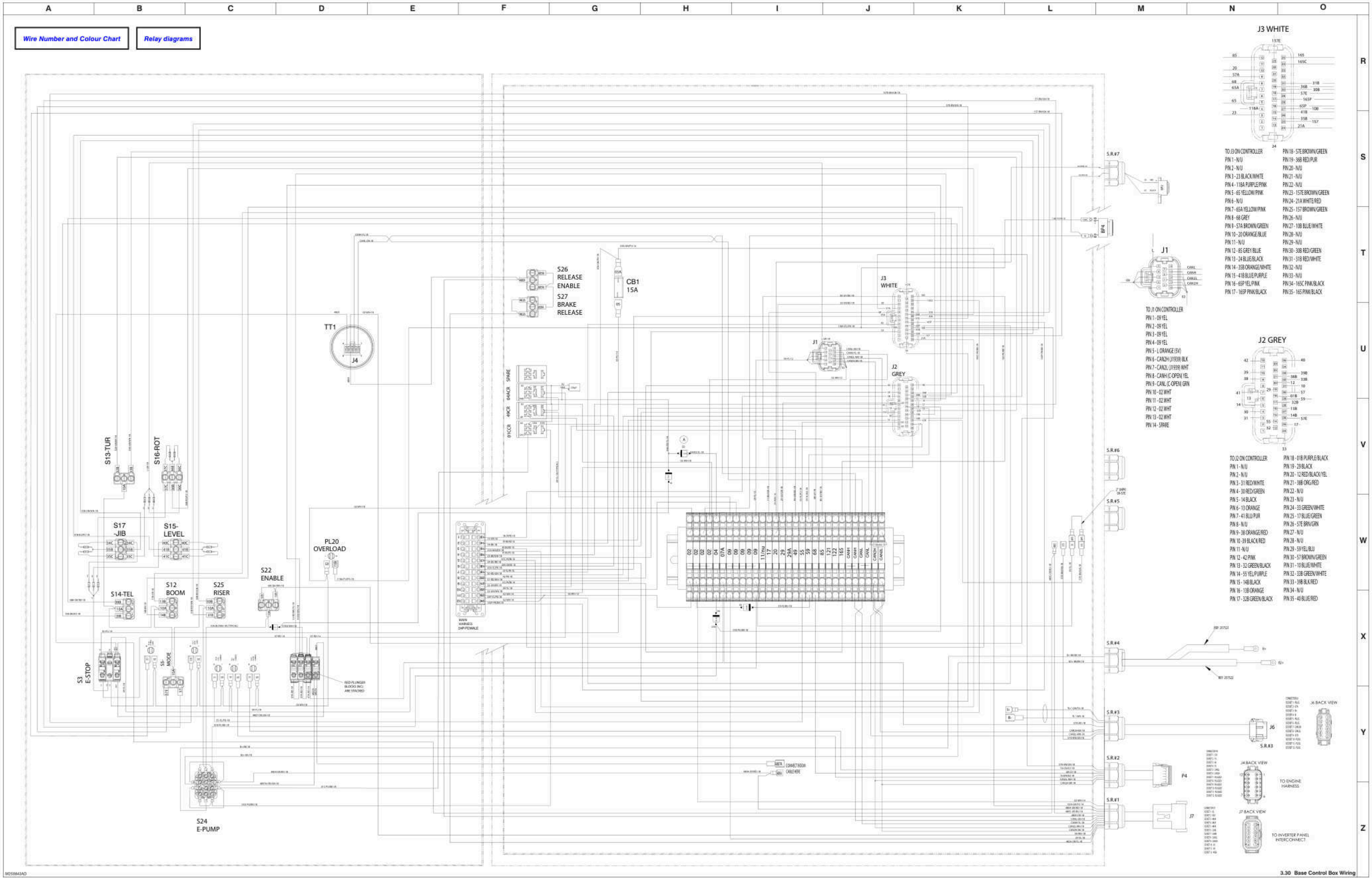
To prevent hydraulic system contaminations, cap all hydraulic hoses and fittings after removal.

6. Remove the hydraulic hoses and fittings on the master cylinder. Replace any worn or damaged components.
7. Disconnect the master cylinder from the main boom by removing the connecting pin, see below. Set all parts aside for reuse.



8. Install the new master by installing the cylinder pins as shown above. Secure the keeper pin and the bolt with Loctile 242 (Blue) or equivalent.
9. Install the hydraulic hoses and fittings on the master cylinder.

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3.30 Base Control Box Wiring

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