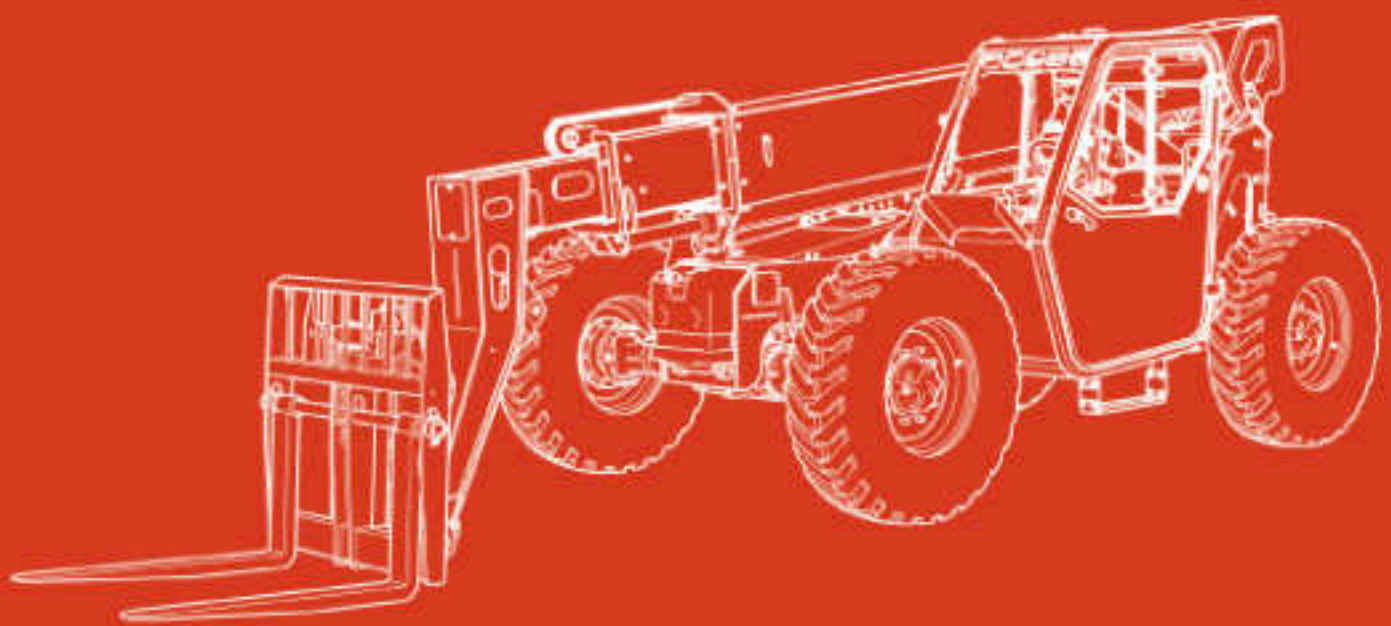
SKYJACK

SERVICE MANUAL

SJ643 TH, SJ843 TH

TELEHANDLERS



190127AG
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ANSI

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Table 2.8 Torque Specifications for Fasteners (Metric)

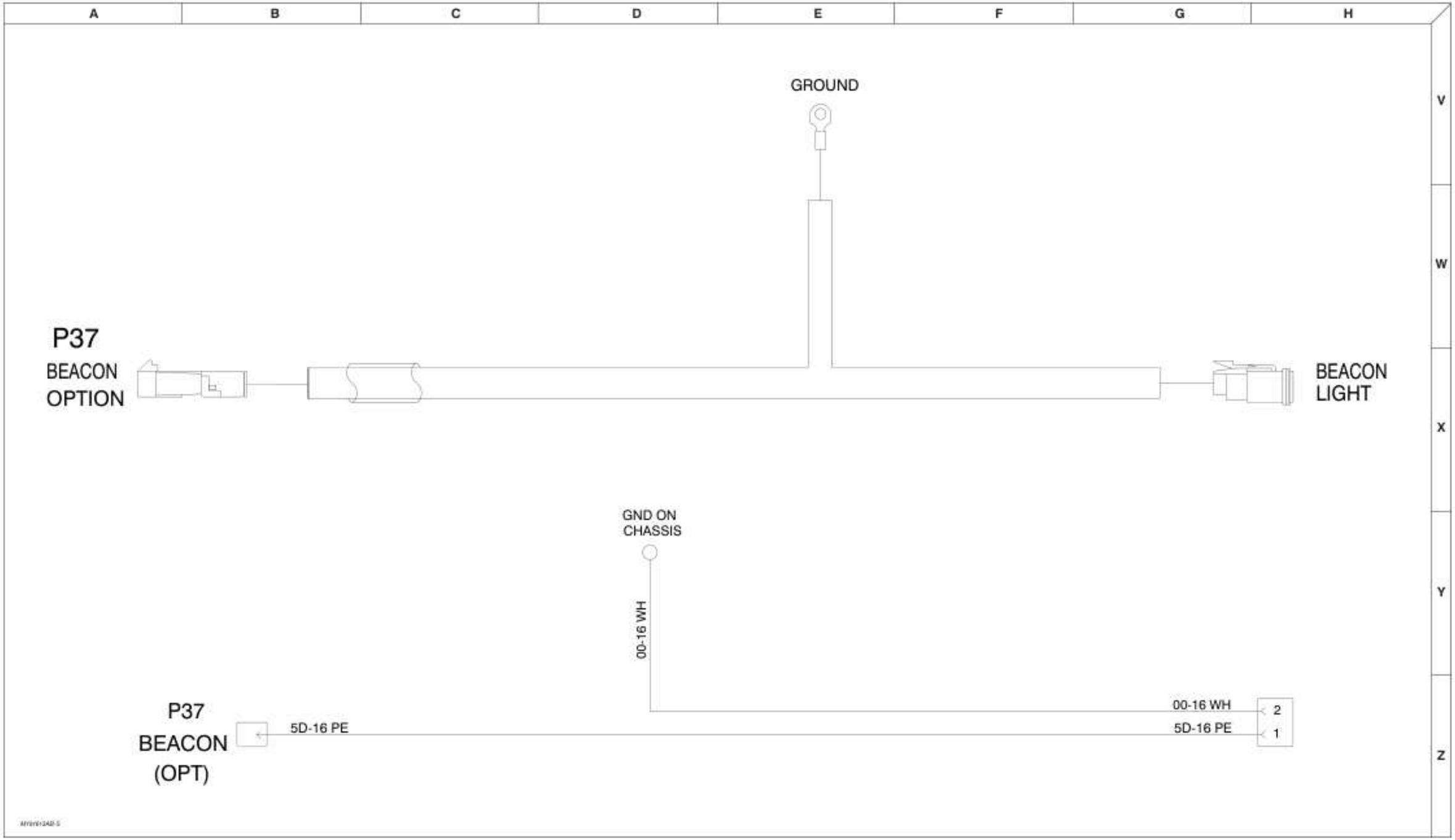
Size	Torque Type	8.8		10.9	
		Dry	Lubed	Dry	Lubed
M5 x 0.80	(in-lb)	(54)	(41)	(78)	(59)
	Nm	6.1	4.6	8.8	6.7
M6 x 1.00	(in-lb)	(92)	(69)	(133)	(99)
	Nm	10.4	7.8	15	11.2
M7 x 1.00	(in-lb)	(156)	(116)	(222)	(167)
	Nm	17.6	13.1	25.1	18.9
M8 x 1.25	(in-lb)	(225)	(169)	(333)	(242)
	Nm	25.4	19.1	37.6	27.3
M10 x 1.50	ft-lb	37	28	53	40
	Nm	50	38	72	54
M12 x 1.75	ft-lb	65	49	93	69
	Nm	88	66	126	94
M14 x 2.00	ft-lb	104	78	148	111
	Nm	141	106	201	150
M16 x 2.00	ft-lb	161	121	230	172
	Nm	218	164	312	233
M18 x 2.50	ft-lb	222	167	318	238
	Nm	301	226	431	323
M20 x 2.50	ft-lb	314	235	449	337
	Nm	426	319	609	457
M22 x 2.50	ft-lb	428	321	613	460
	Nm	580	435	831	624
M24 x 3.00	ft-lb	543	407	776	582
	Nm	736	552	1052	789
M27 x 3.00	ft-lb	796	597	1139	854
	Nm	1079	809	1544	1158
M30 x 3.50	ft-lb	1079	809	1543	1158
	Nm	1463	1097	2092	1570
M33 x 3.50	ft-lb	1468	1101	2101	1576
	Nm	1990	1493	2849	2137
M36 x 4.00	ft-lb	1886	1415	2699	2024
	Nm	2557	1918	3659	2744

NOTE: Lubed includes lubricants such as lubrizing, oil, grease, and some uncured thread lockers. Refer to the specific thread locker manufacturer's instructions for specific torque adjustments.

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3.20 Beacon Light Harness & Wiring Diagram



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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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8. Install spring retainer, spring and regulator valve in sleeve against inner cross pin as shown in figure below.

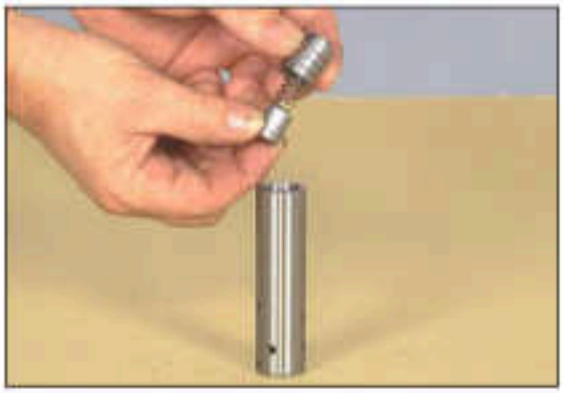


Figure 105 *Install Component in Sleeve*

9. Compress regulator spool and spring in sleeve far enough to install cross pin as shown in figure below.



Figure 106 *Compress Components in Sleeve*

10. Install cross pin as show in figure below.



Figure 107 *Install Cross Pin*

11. From opposite end, position accumulator spool in sleeve as shown in figure below.



Figure 108 *Position Accumulator Coil*

12. Install outer accumulator spring as shown in figure below.



Figure 109 *Install Outer Accumulator Spring*

13. Install middle spring as shown in figure below.



Figure 110 *Install Middle Spring*

14. Install inner spring as shown in figure below.

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Remove Boom Hoses

1. Start engine and extend the boom approximately 3 feet to gain acces to side acces hole on fly boom section.



Figure 66 *Boom Side Access Hole*

2. Shutdown engine and remove key from ignition switch.
3. Disconnect hoses at the rear of bulkhead as shown below.

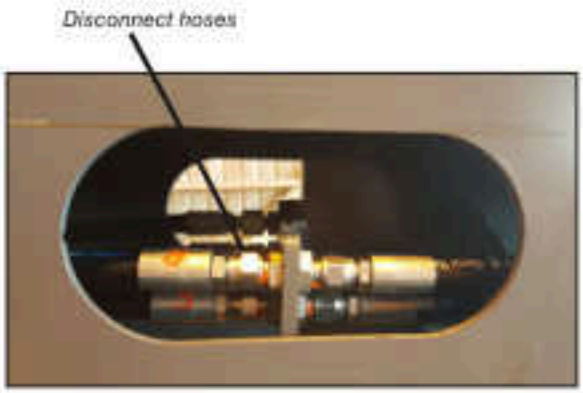


Figure 67 *Fork Tilt Hoses Removal*

4. Cap/plug all open lines and fittings.
5. Remove the hoses at the rear of bulkhead fittings on the other side of the boom.
6. Cap/plug all open lines and fittings.
7. Start the engine and fully retract the boom.
8. Shutdown engine and remove key from ignition switch.
9. Remove end of Fork Tilt hoses at front bulkheads on main boom assembly.

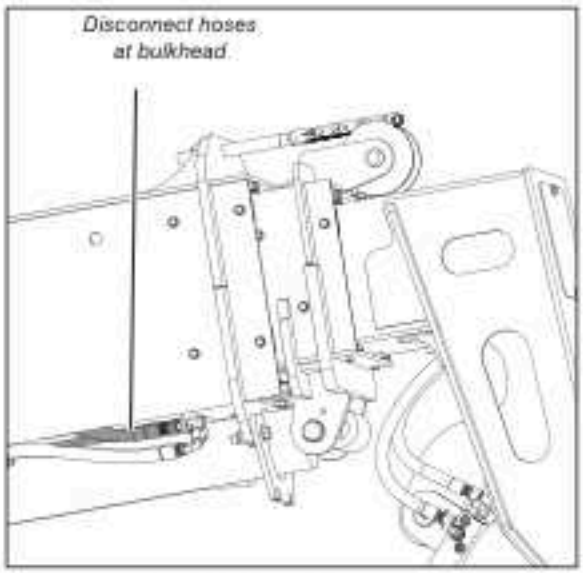


Figure 68 *Fork Tilt Hoses Removal at Bulkhead*

10. Cap/plug all open lines and fittings.
11. Remove other end of Auxilliary Hydraulics hoses at front bulkheads on main boom assembly.

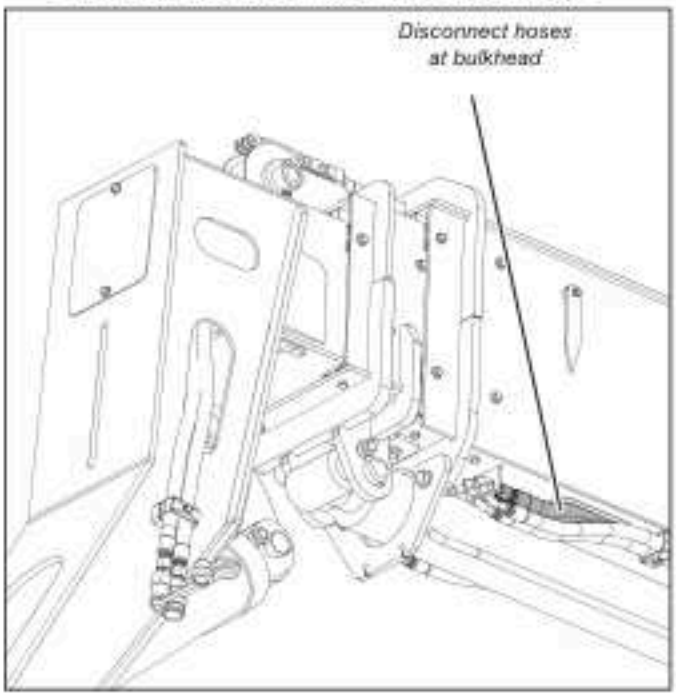
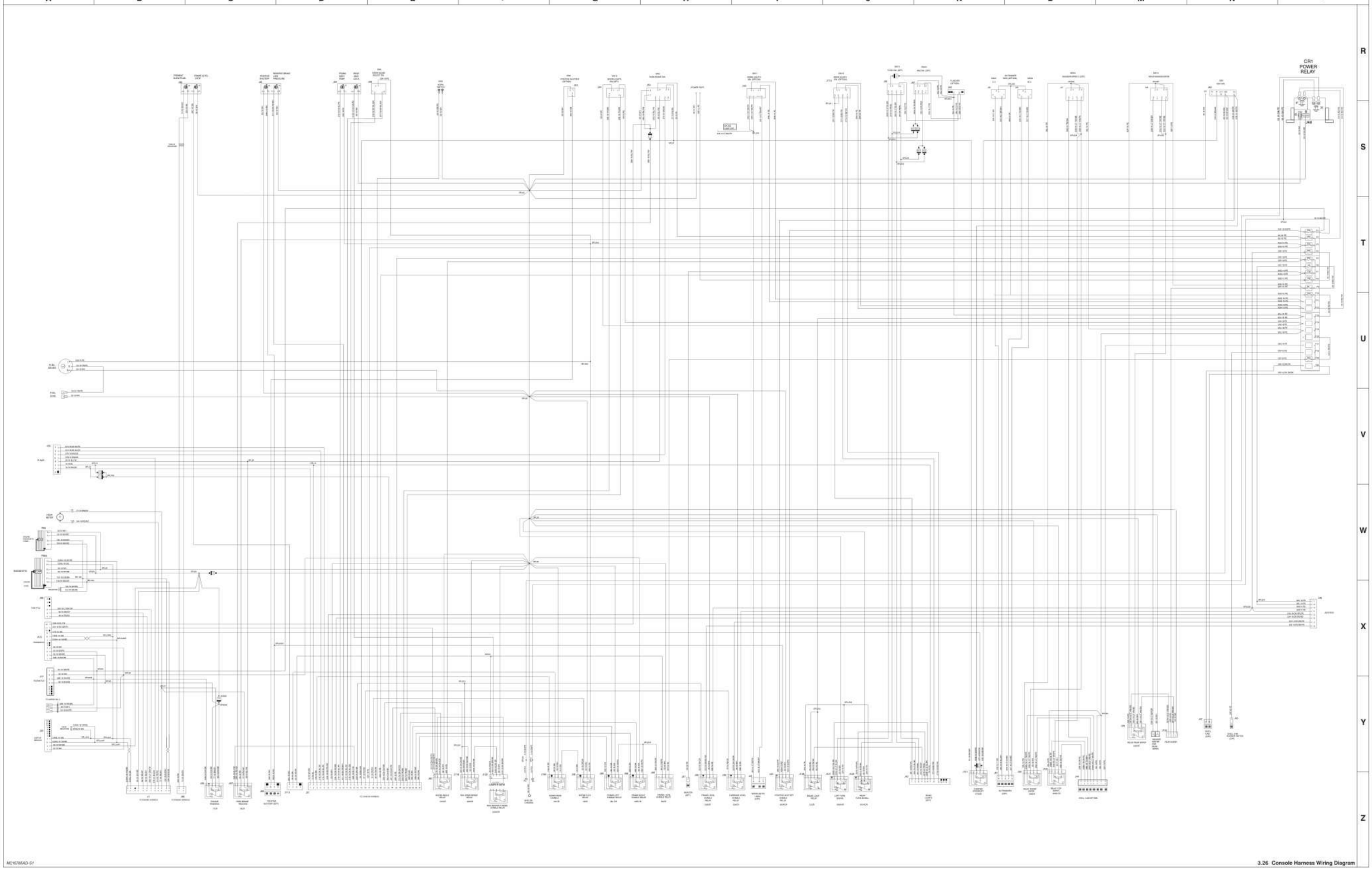


Figure 69 *Aux. Hydraulics Hoses Removal at Bulkhead*

12. Cap/plug all open lines and fittings.
13. With rear access cover plate removed, pull the hoses out of boom assembly and thoroughly inspect all hoses. Replace hoses if needed.

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