TOYOTA

INDUSTRIAL EQUIPMENT

SERVICE MANUAL

Pallet Trucks

8HBW30	40,001 and up	**8HBE30**	40,001 and up
8HBE40	40,001 and up	**8HBC30**	40,001 and up
8HBC40	40,001 and up	**8TB50**	40,001 and up

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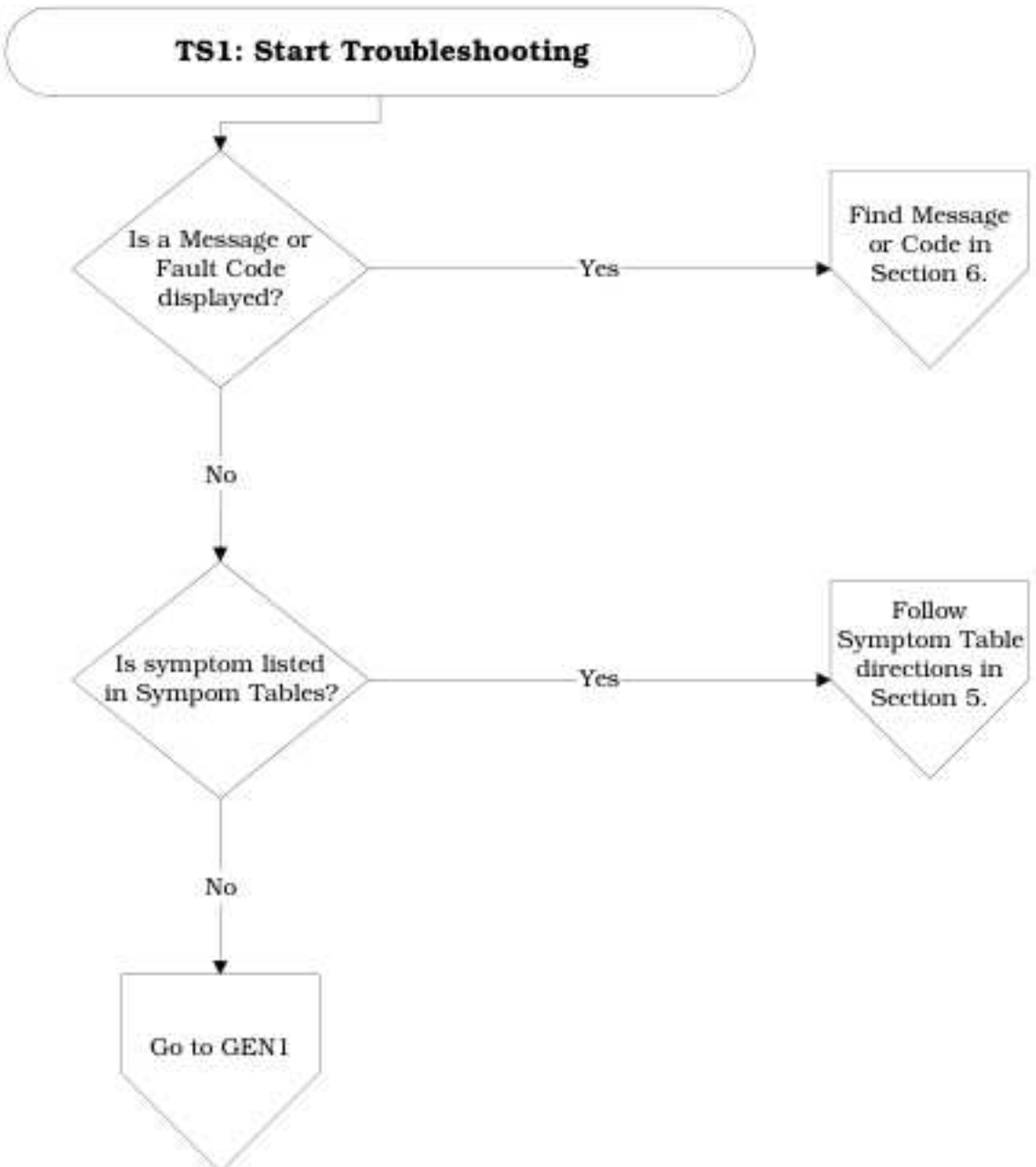
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Troubleshooting Flowcharts

TS1: START TROUBLESHOOTING

Figure 5-1. TS1: START TROUBLESHOOTING



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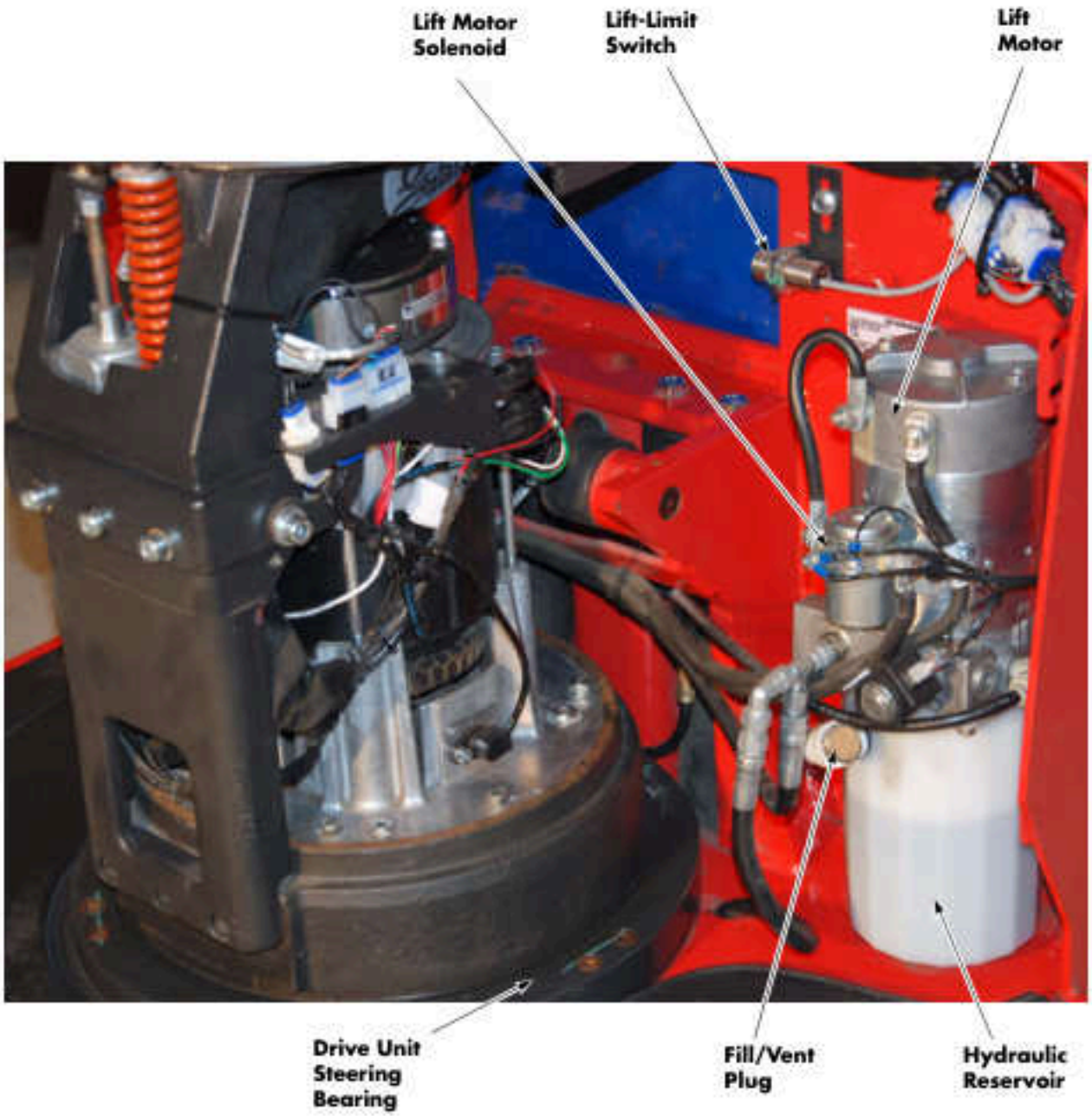
Component	Sub-Component(s)	Thread-Locking Compound P/N	Torque to: / Notes
Drive Unit	pinion gear lock nut on armature shaft		50 ft. lb. (68 Nm)
Drive Unit	upper gear housing to main case	00590-04964-71	18 ft. lb. (25 Nm)
Drive Wheel	mounting bolts		100 ft. lbs. (135 Nm)
Grab Rail Switch Module	mounting screws	use only thread-locking compound Loctite® 425 - others will damage the plastic housing	
Hydraulic Reservoir	screws mounting reservoir to adaptor housing (4)		20 to 25 in. lbs. (2.2 to 2.8 Nm)
Hydraulic Unit	mounting bolts		
Lift Motor	end plate to adapter body screws		6.3 to 7.4 ft. lb. (8.5 to 10 Nm)
Lift Motor	solenoid mounting screws		60 to 69 in. lb. (6.8 to 7.9 Nm)
Lift Pump	screws mounting pump to adaptor body (8)		10 to 12 ft. lb. (13.5 to 16.3 Nm)
Load axle	bolts mounting axle to sway bars	00590-48236-71	30 ft. lbs. (40.7 Nm)
Lower Solenoid Valve	mounting into manifold		15 ft. lb. (20.3 Nm)
Nut on Coil on spool assembly			5 ft. lb. (7 Nm)
Pallet entry slider	mounting screws	00590-46666-71	Verify clearance from floor to slider is 0.125 in. (3.18 mm)
Relief Valve Tube subassembly			35 ft. lb. (49 Nm)
Sway bars and dampeners	bolts mounting to operator compartment	00590-48236-71	30 ft. lbs. (40.7 Nm)
Traction Amplifier	terminals		100 in. lb. (11.3 Nm)
Traction Amplifier	to truck frame mounting screws		6 ft. lb. (8 Nm)

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Schematics

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Figure 7-2. Inside Tractor, Right Side



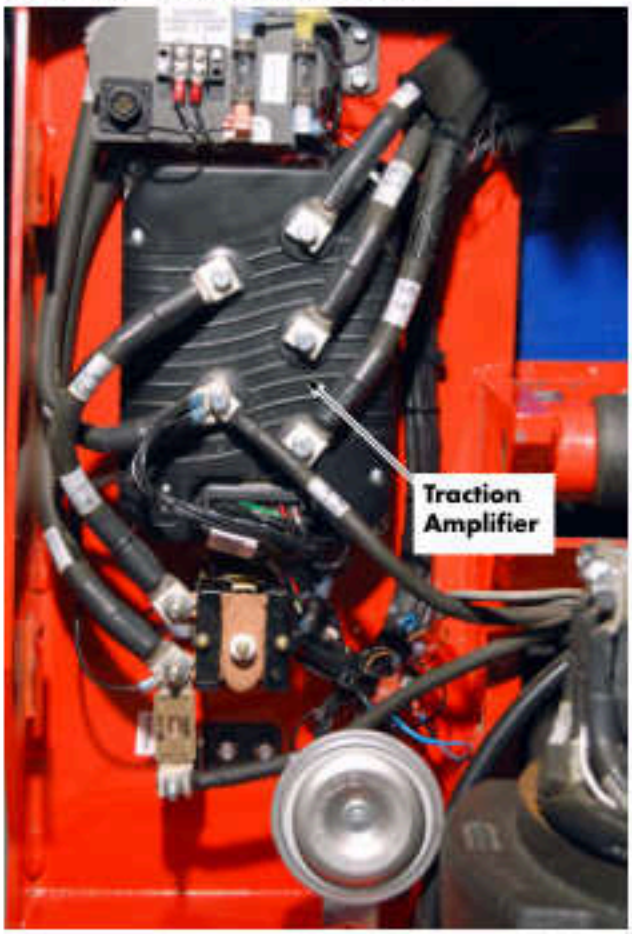
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Traction Amplifier

⚠CAUTION

Do *not* open the traction amplifier. Opening the traction amplifier could cause damage to it and voids the warranty.

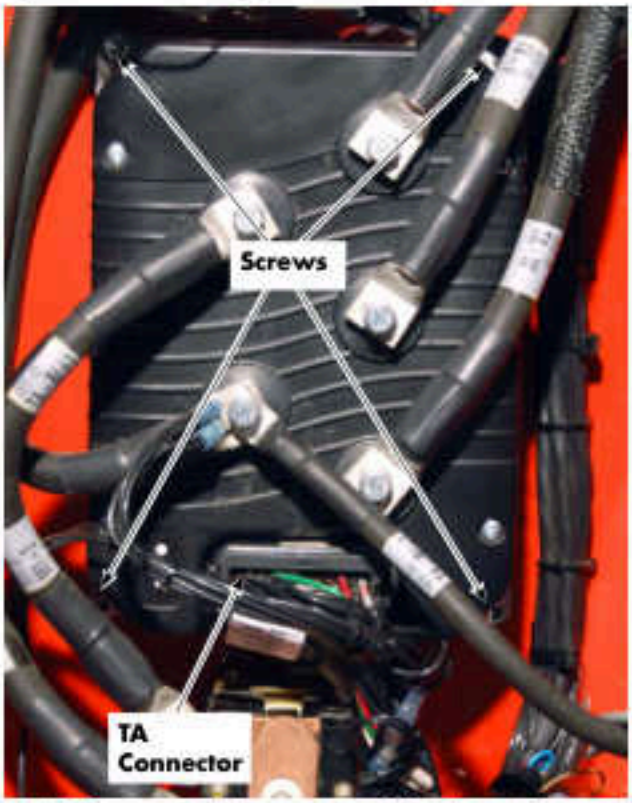
Figure 7-91. Traction Amplifier Location



Removal

1. Turn the truck OFF and disconnect the battery connector.
2. Remove the tractor cover.
3. Using a small blade screwdriver, pry the locking tab back and disconnect the TA connector from the TA. See Figure 7-92.

Figure 7-92. Removing the Traction Amplifier



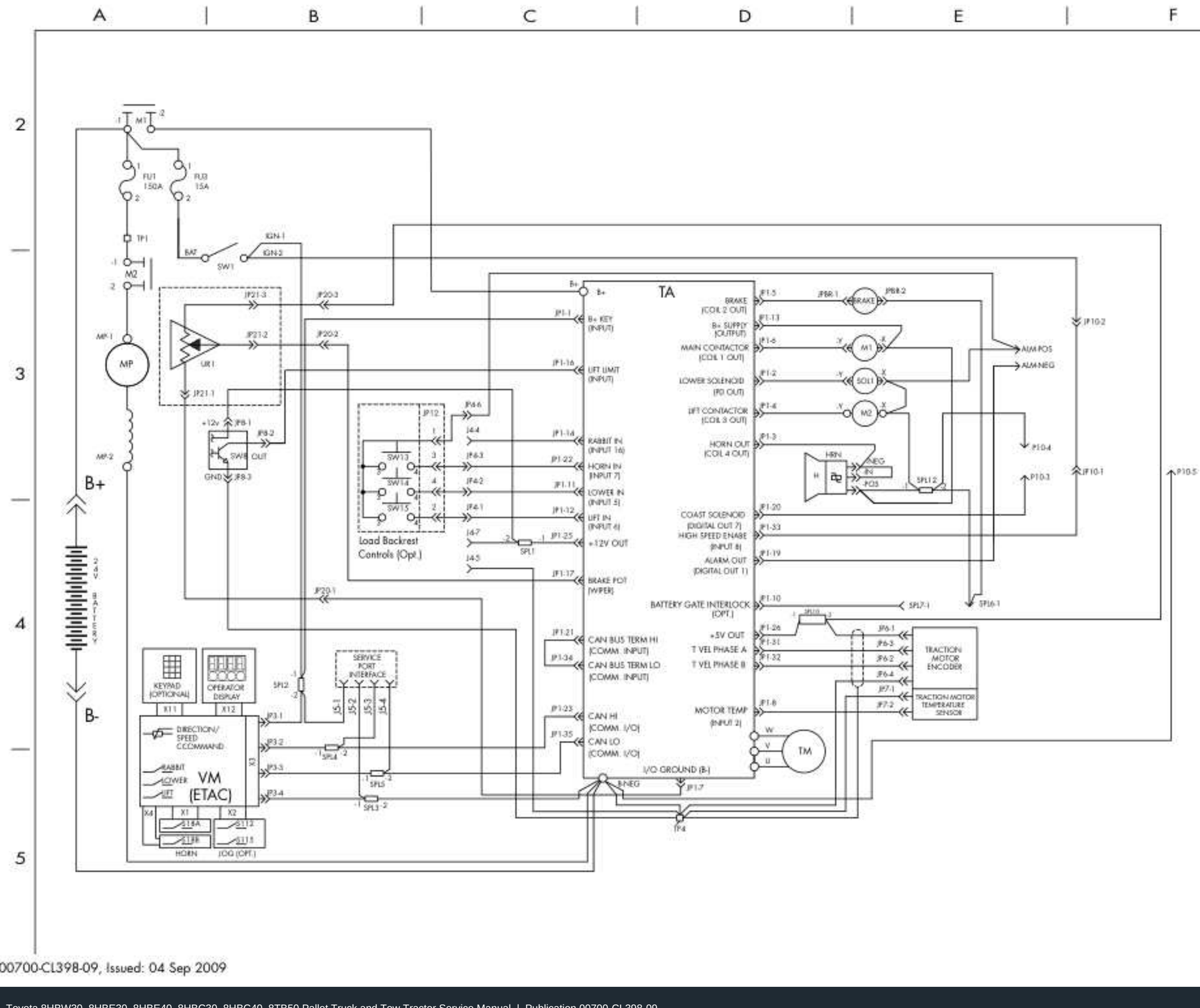
4. Disconnect the power cables from the terminals on the TA.
5. Remove the four hex head cap screws securing the TA to the truck frame, and lift the controller out. See Figure 7-92.

Installation

1. Install *new* thermal conductive material (provided with the TA) between the base of the TA and the heatsink.
2. Secure the TA to the truck frame with the four previously removed hex head cap screws. Tighten the mounting screws to a torque of 6 ft. lb. (8 Nm). See Figure 7-92.

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Figure A-3. Model 8HBC30/40 Standard



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