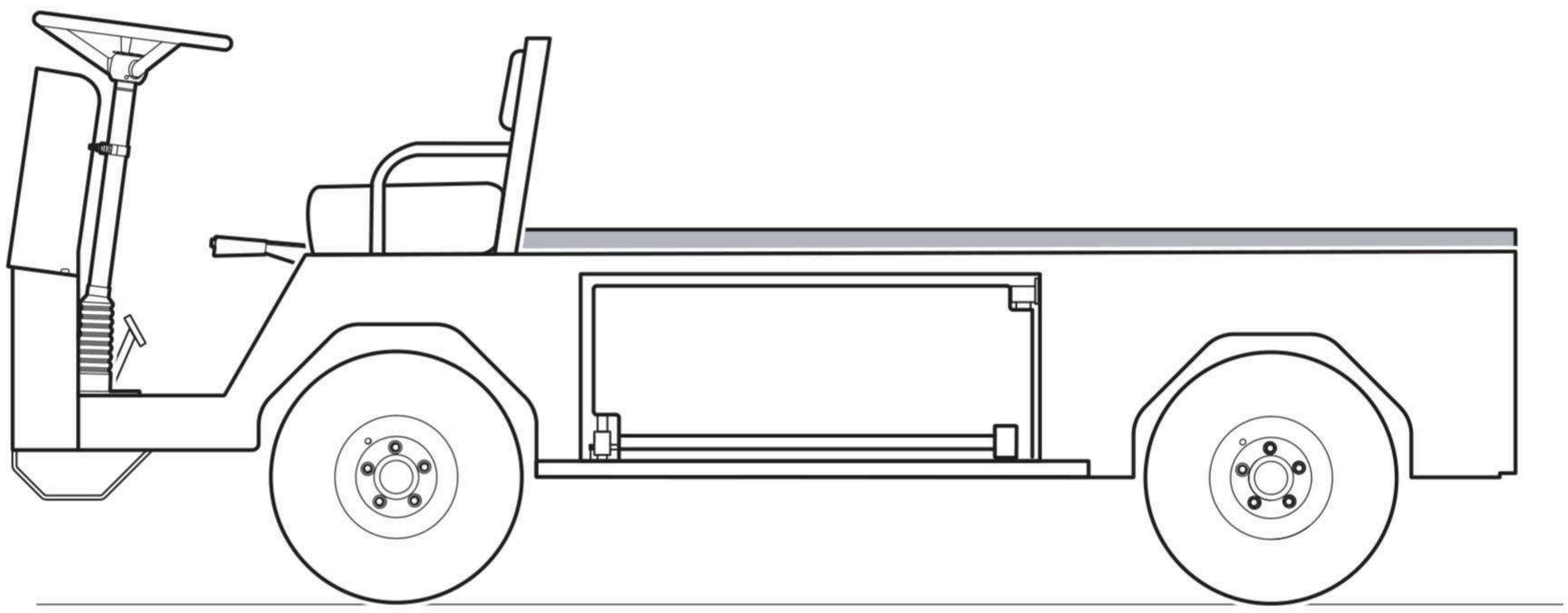
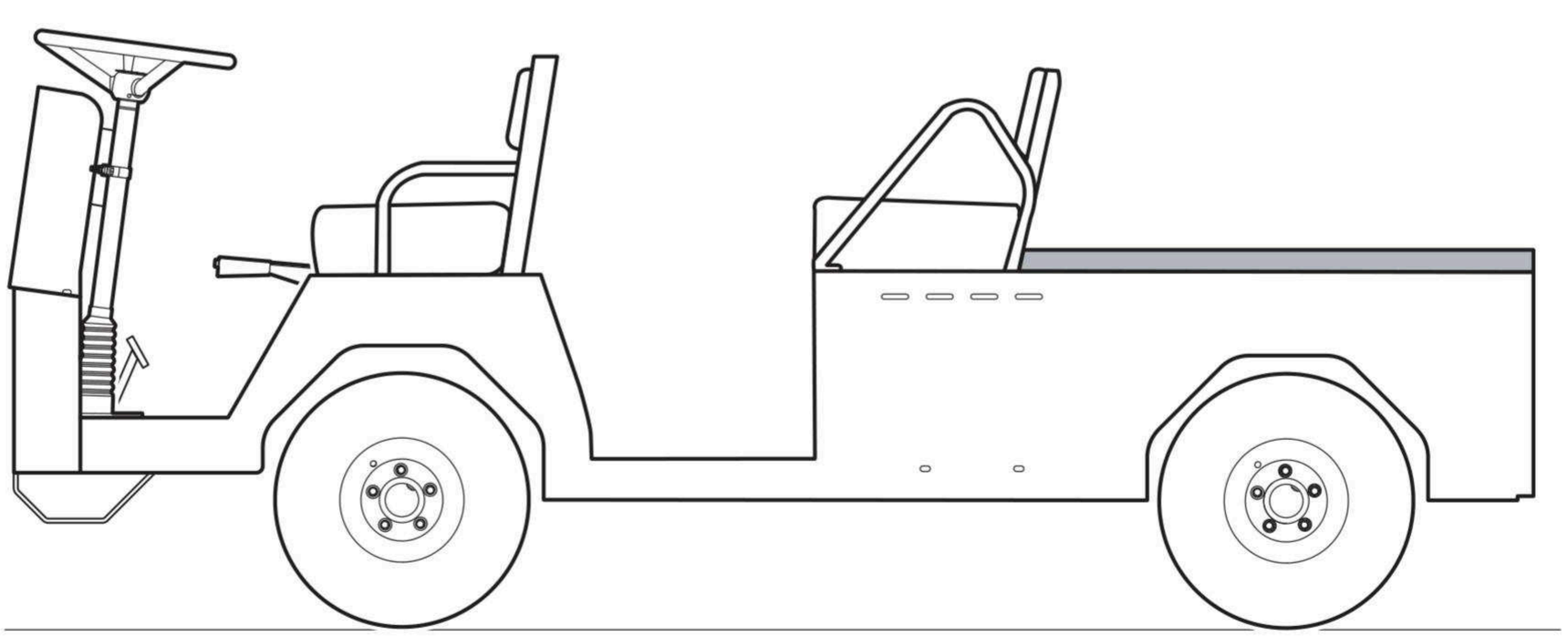
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TECHNICIAN'S REPAIR AND SERVICE MANUAL





ELECTRIC CARGO AND PERSONNEL CARRIERS (INDUSTRIAL 875 & TITAN)

STARTING MODEL YEAR: 2005 REVISED MARCH 2012

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Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings

TRAILERING

⚠ WARNING ⚠ ***Personal injury to occupants of other highway vehicles may occur if vehicle and contents are not adequately secured to trailer.***

Do not ride on vehicle being trailered.

If the vehicle is to be transported on a trailer at highway speeds, check that the vehicle and contents are adequately secured before trailering the vehicle. The rated capacity of the trailer used must exceed the weight of the vehicle (See GENERAL SPECIFICATIONS for vehicle weight) and load plus 1000 lbs (450 kg). Lock the parking brake and secure the vehicle to the trailer using ratchet tie downs.

TORQUE SPECIFICATIONS

HARDWARE

Periodically the vehicle should be inspected for loose fasteners. Fasteners should be tightened in accordance with the Torque Specifications table (Ref Fig. 4 on page A-4).

Generally, three grades of hardware are used in the vehicle. Grade 5 hardware can be identified by the three marks on the hexagonal head and grade 8 hardware is identified by 6 marks on the head. Unmarked hardware is Grade 2 (Ref Fig. 4 on page A-4).

ALL TORQUE FIGURES ARE IN FT. LBS. (Nm)

Unless otherwise noted in text, tighten all hardware in accordance with this chart.
This chart specifies 'lubricated' torque figures. Fasteners that are plated or lubricated when installed are considered 'wet' and require approximately 80% of the torque required for 'dry' fasteners.

BOLT SIZE	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Grade 2	4 (5)	8 (11)	15 (20)	24 (33)	35 (47)	55 (75)	75 (102)	130 (176)	125 (169)	190 (258)
Grade 5	6 (8)	13 (18)	23 (31)	35 (47)	55 (75)	80 (108)	110 (149)	200 (271)	320 (434)	480 (651)
Grade 8	6 (8)	18 (24)	35 (47)	55 (75)	80 (108)	110 (149)	170 (230)	280 (380)	460 (624)	680 (922)

BOLT SIZE	M4	M5	M6	M8	M10	M12	M14
Class 5.8 (Grade 2)	1 (2)	2 (3)	4 (6)	10 (14)	20 (27)	35 (47)	55 (76.4)
Class 8.8 (Grade 5)	2 (3)	4 (6)	7 (10)	18 (24)	35 (47)	61 (83)	97 (131)
Class 10.9 (Grade 8)	3 (4)	6 (8)	10 (14)	25 (34)	49 (66)	86 (117)	136 (184)

Fig. 4 Torque Specifications

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TROUBLESHOOTING DIAGRAMS

The simplified troubleshooting diagram is a quick ESC diagnosis (Ref Fig. 6 on page E-6). Use this diagram to perform initial troubleshooting. Follow the indicated step numbers to the information in the detailed troubleshooting diagram.

It is vital to the safety of the technician and assistants that all warnings and safety procedures in this section be followed.

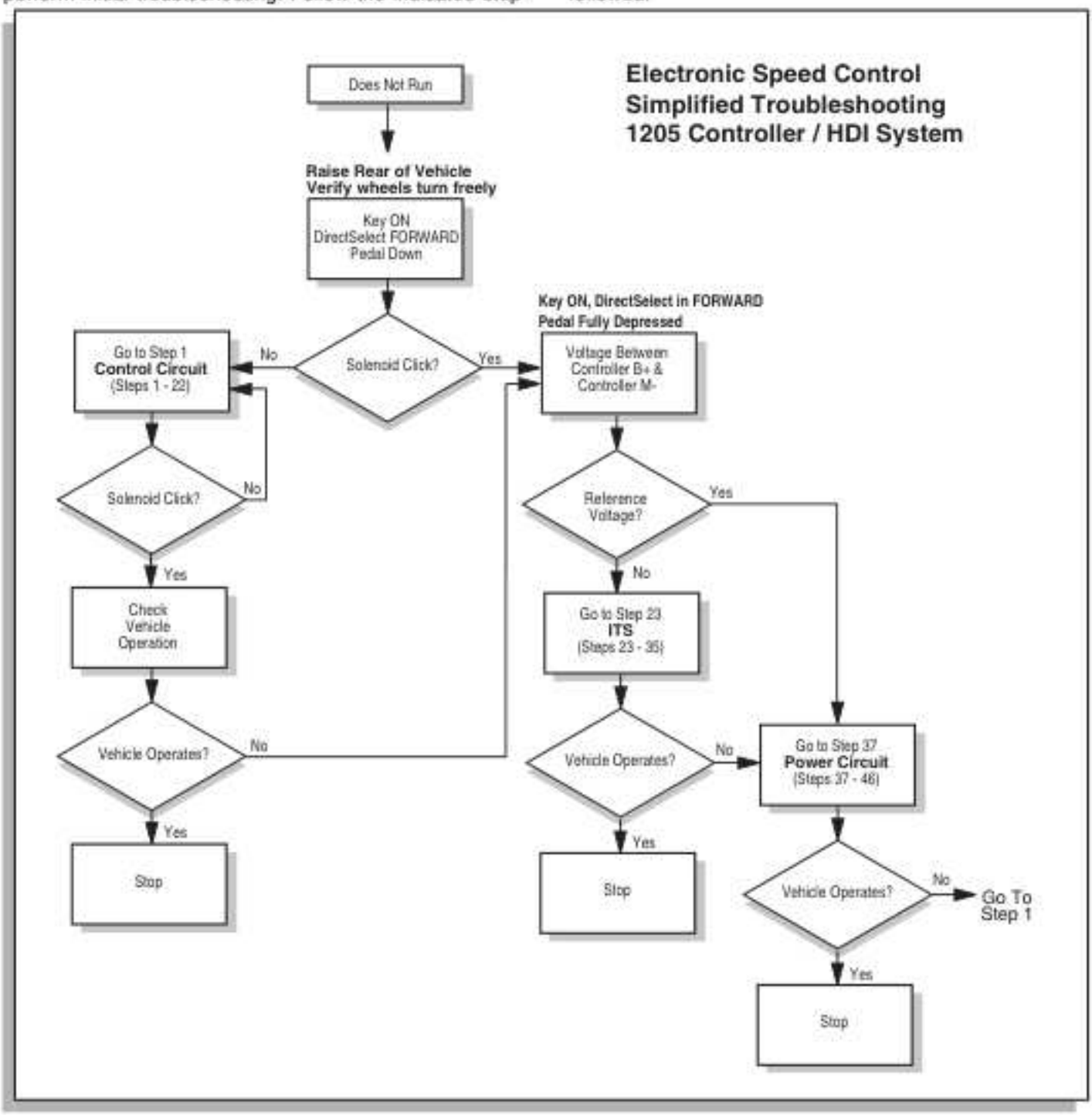


Fig. 6 Simplified Troubleshooting Diagram

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ELECTRONIC SPEED CONTROL (48V)

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings

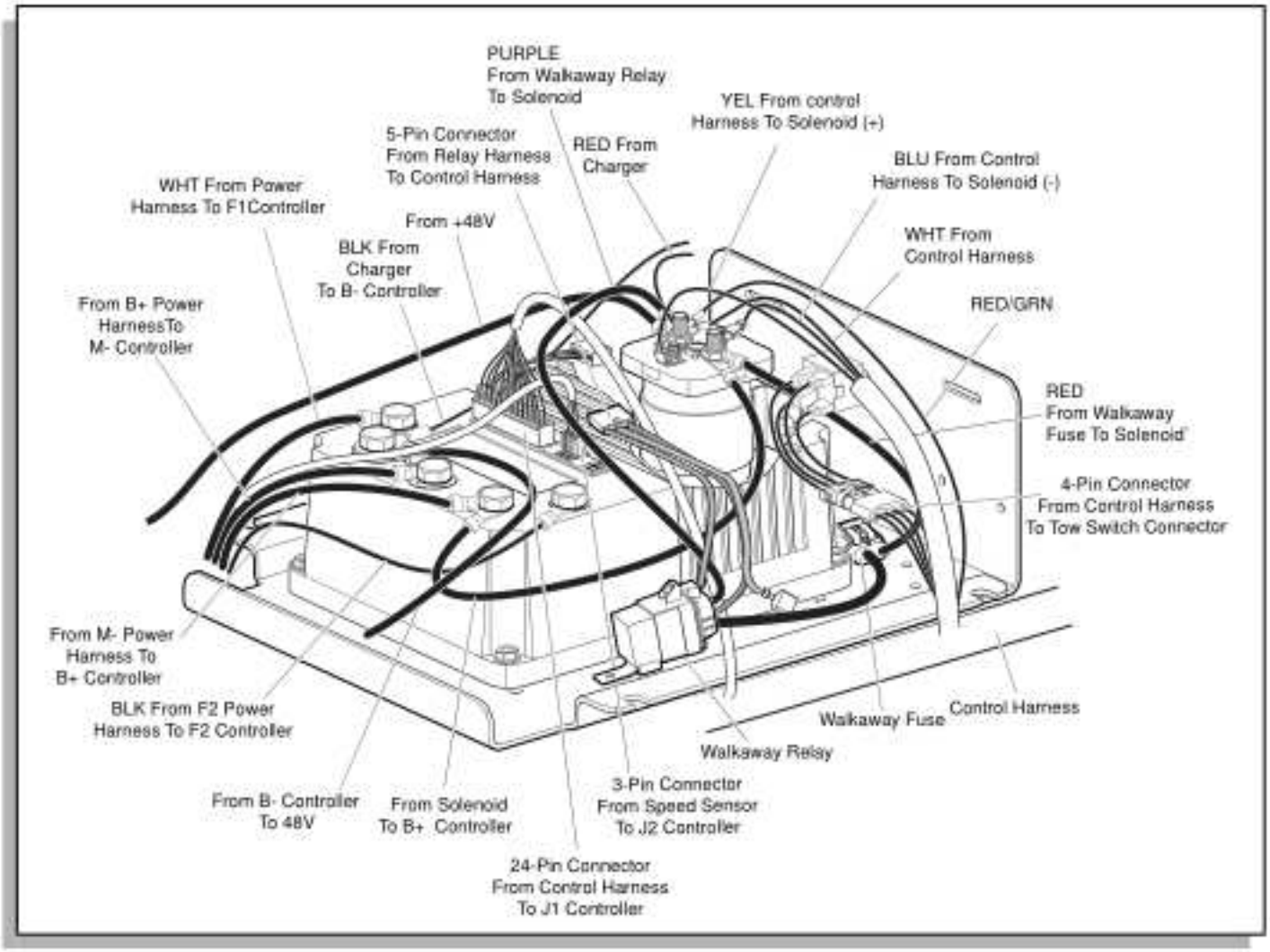


Fig. 18 Controller Wiring

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