



Advanced Engineering Harness Modification Kit for iEC Logic Adapter



1.0 NATURE OF CHANGE

Initial release

2.0 PURPOSE

The purpose is to describe the modifications necessary to use the iEC Logic IO Wiring Adapter with Flyback Diodes (27348) with the Advanced Engineering Torque Tool Interface Wire Harness.

3.0 EQUIPMENT:

- 3.1 Advanced Engineering Torque Tool Interface Wire Harness
- 3.2 AcraDyne Modification Kit
 - 3.2.1 27348 iEC Logic IO Wiring Adapter with Flyback Diodes
 - 3.2.1.1 Manual
 - 3.2.1.2 Plastic Covers and Grommet
 - 3.2.1.3 27347 Logic IO Adapter PCB
 - 3.2.1.4 Cable Zip Tie
 - 3.2.2 M/F Circular Connectors, Pins/Sockets, Clamps, Cable and Heat Shrink
 - 3.2.2.1 M/F Circular Connector (70082939, 70083012)
 - 3.2.2.2 Pins and Sockets (70042598, 70042594)
 - 3.2.2.3 2 x Clamps (70042997)
 - 3.2.2.4 3/16" Heat Shrink, 1/2" Heat Shrink
 - 3.2.2.5 28 AWG Ferrules
 - 3.2.2.6 4 Conductor Cable (Belden B8723)
- 3.3 Tools required for operation
 - 3.3.1 Wire Stripper/Cutter
 - 3.3.2 Screw Driver

4.0 WORK INSTRUCTION

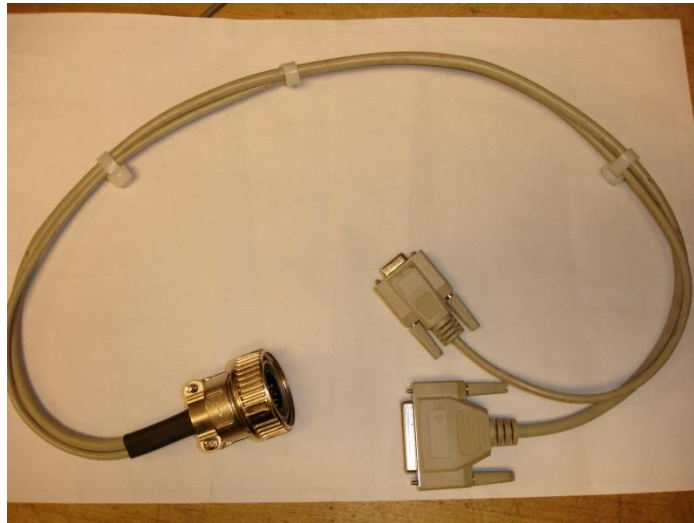


Figure 1. Advanced Engineering Torque Tool Interface Wire Harness

- 4.1 Use the Wire Cutters to remove the DB-25 connector from the AETT Wire Harness. Remove 2.5" of the existing AETT Wire Harness cable jacket.



Figure 2. Remove Jacket from DB-25 Conn and Isolate Signal wires

4.2 Wire Signal Chart

Pin (27348)	Signal Name	Color Code	Cable	
1	Accept	Black	DB-25	
2	Reject	Black / White	DB-25	
5	COM	Red	DB-25	
25	+24VDC	White	DB-25	
9	PSet 1	Orange / White	DB-25	
10	PSet 2	Orange / Black	DB-25	
11	PSet 3	Pink	DB-25	
24	+24VDC	Gray / Black	DB-25	
12	Reset	Pink / Black	DB-25	
8	Disable	Orange	DB-25	
28	+24VDC	Gray	DB-25	
6	Run FWD	Black	4 Cond.	
7	Run REV	White	4 Cond.	
26	+24VDC	Red	4 Cond.	
27	+24VDC	Green	4 Cond.	

4.3 Use the Wire Cutters to remove 2.5" of the 4 Conductor Cable jacket.

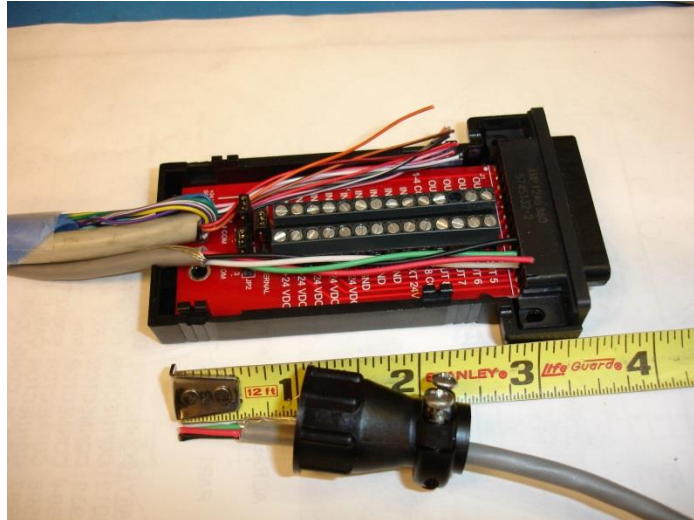


Figure 3. Remove Jacket from Run FWD/REV Cable

- 4.4 Use the Wire Cutters to remove 2.5" of the 4 Conductor Cable jacket from the Logic IO Adapter end (27348). Remove 0.5" of the 4 Conductor Cable jacket from the Circular Connector end.
- 4.5 Crimp Sockets pins to Circular Connector end of cable. Install into Circular Connector body.
- 4.6 Install 3/16" Heat Shrink on both ends of cable.
- 4.7 Install Circular Connector back and clamp.
- 4.8 Terminate cable into Logic IO Adapter (27348). See Wiring Signal Chart.



Figure 4. Terminating 4 Conductor Cable

- 4.9 Terminate 4 Conductor Cable into Logic IO Adapter (27348). See Wiring Signal Chart.

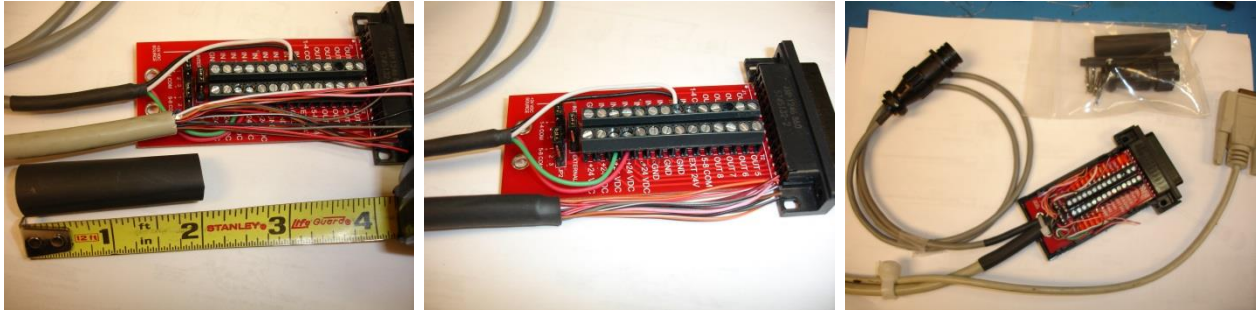


Figure 5. Terminate DB-25 Conductor Cable

- 4.10 Fold back or Cut unused DB-25 conductors. Install ½” Heat Shrink on Logic IO Adapter end. Use zip tie to strain relieve the cable exit.
- 4.11 Terminate the DB-25 Cable into the Logic IO Adapter (27348). See Wiring Signal Chart. Use 28 AWG Ferrules to Terminate.
- 4.12 Verify Jumper Settings
- 4.12.1 +24VDC Source is set to “Internal”
 - 4.12.2 1-4 COM is set to 1-2
 - 4.12.3 5-8 COM is set to 1-2
- 4.13 Snap on Logic IO Adapter Plastic Covers while installing jack screws and saddle washers.

REVISION HISTORY

Revision Date

06/28/2013

Document Change Log

Initial Release



AIMCO CORPORATE HEADQUARTERS

10000 SE Pine Street
Portland, Oregon 97216
Phone: (503) 254-6600
Toll Free: 1-800-852-1368

AIMCO CORPORATION DE MEXICO SA DE CV

Ave. Cristobal Colon 14529
Chihuahua, Chihuahua. 31125
Mexico
Phone: (01-614) 380-1010
Fax: (01-614) 380-1019