



Installation Manual

AltoNet Diagnostic Connector Extension Kit

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Revisions

Rev #	Date	Description
1	09/19/12	New Document

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1.0 APPLICATION

The 200442 Connector Kit will provide access to the J2 Alto Aux Connector for customer tuning and system verification in Alto's Forte Series Digital Amplifiers. The contents of this kit when combined with installer-supplied 26 AWG twisted pair cable creates an extension cable that allows remote access to the amplifier's configuration and verification data port.

2.0 INSTALLATION

2.1 General

The information in this section assists the installer of the connector kit. Conformity to the electrical wiring guidelines will help to ensure proper operation of the unit.

Review all information in this section before proceeding with the installation of the connector kit.

For assistance during installation, please contact Alto using the following contact information:

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2.2 Connector Specifications

AUX Connector (on 106500-XXXX-XXXXX Digital Amplifier)


26 pin Female D-Sub Positronic # ODD26F4B100V5X

Mating Connector

26 pin Male D-Sub Positronic # **ODD26M10JVLX**

Female Panel Mount Connector

26 pin Female D-Sub Positronic # **ODD26F10000**

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2.3 Required Parts List

ITEM NUMBER	PART NUMBER	DESCRIPTION	QUANTITY SUPPLIED	QUANTITY NEEDED
1	106500-XXXX-XXXXX	Alto Digital Amplifier		1
2		Accessible Panel		1
3	Positronic # ODD26M10JVLX	Mating Connector 26 PIN Male D-Sub	1	1
4	Positronic # ODD26F10000	Female Panel Mount Connector	1	1
5		26 AWG twisted pair (length up to 30 feet each)		8

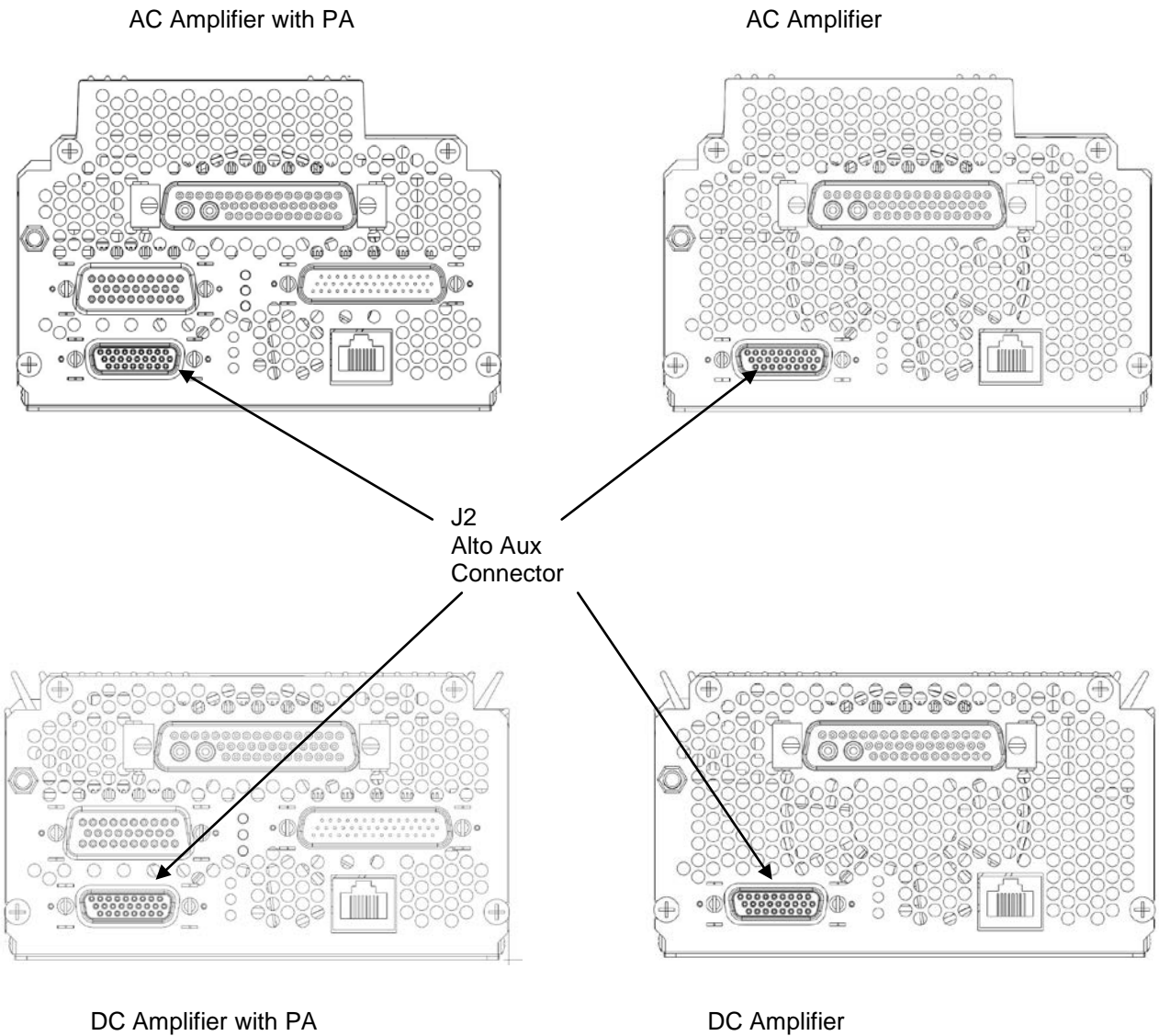


Figure 1: Amplifier End Plates – J2 Alto Aux Connector

2.4 Wiring Requirements

The installing agency is responsible for the supply or fabrication of the wiring harnesses. Perform a pin-to-pin check to confirm that all wires terminate at their proper location. Pay close attention to the power and ground connections.

Do not connect any unnecessary wiring. Any wires installed for future use must be capped or terminated near the unit.

The length of the input wires should be kept at a minimum to reduce the chance of noise being introduced into the system. The maximum harness length is not to exceed 50 feet (16 meter).

Avoid parallel runs or installation of audio signal cables in close proximity of transmitter coax cables, high current DC power wiring, AC power wiring, or other high current wiring.

Avoid installation in close proximity to any device with a strong alternating magnetic field such as an inverter or electrical motor.

Wire size, type, and installation should comply with all industry regulations pertaining to the actual installation.

Mating Connector **A** PN: ODD26M10JVLX

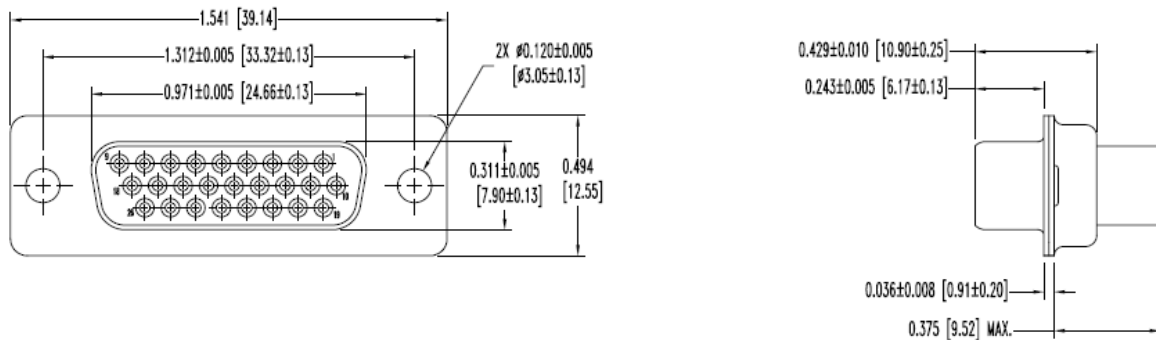


Figure 2: Connector Dimensions

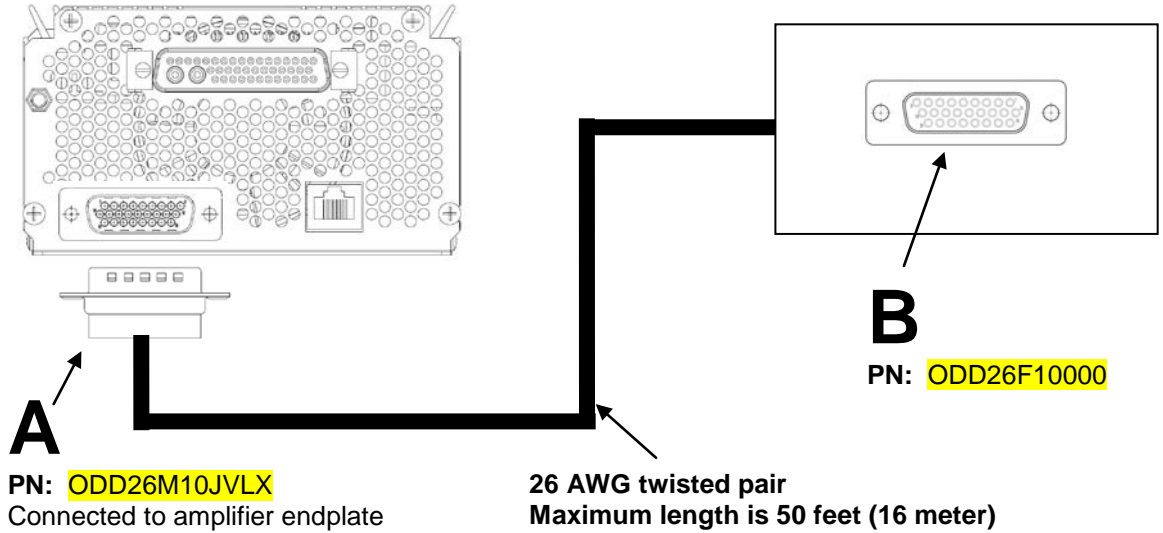


Figure 3: Connector Extension Kit

- Connect twisted pairs of AWG 26, paired as in Figure 4, between the **A** and **B** connectors.
- Connector **B** should be mounted in an easily accessible location, typically a closet or access panel. If the aircraft contains multiple amplifiers, then a separate connector is required for each amplifier.

Note: Maximum length of harness is 50 feet (16 meter).

A PINs	DESCRIPTION	Details - AWG 26	B PINs
1	N/C	N/C	1
2	N/C	N/C	2
3	N/C	N/C	3
4	Analog Test Audio Input -	Twisted Pair (4 & 5)	4
5	Analog Test Audio Input +	Twisted Pair (4 & 5)	5
6	RS-422 RX-	Twisted Pair (6 & 7)	6
7	RS-422 RX+	Twisted Pair (6 & 7)	7
8	RS-422 TX-	Twisted Pair (8 & 9)	8
9	RS-422 TX+	Twisted Pair (8 & 9)	9
10	N/C	N/C	10
11	N/C	N/C	11
12	N/C	N/C	12
13	+12V out (to power accessories) 500mA	Twisted Pair (13 & 17)	13
14	N/C	N/C	14
15	N/C	N/C	15
16	N/C	N/C	16
17	Ground	Twisted Pair (13 & 17)	17
18	N/C	N/C	18
19	N/C	N/C	19
20	N/C	N/C	20
21	N/C	N/C	21
22	N/C	N/C	22
23	N/C	N/C	23
24	N/C	N/C	24
25	N/C	N/C	25
26	N/C	N/C	26

Figure 4: Connector Pinouts