

MTRBI Motorola MOTOTRBO Interface

Modifying MTRBI to IP-223 Interface cable to work with IP-224

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MTRBi Motorola MOTOTRBO Interface Modifying MTRBi to IP-223 Interface cable to work with IP-224

1.0 General

This application note is intended to assist technical staff with cable rework. MTRBi Interface Adaptors can now be ordered for either the IP-223 or IP-224. If you are upgrading the IP-223 to an IP-224 but want to use the existing MTRBi, the cable between the units will need rework.

The MTRBi to IP-223 cable is connected to both the Line and Serial connectors. In the IP-224 both audio and serial logic are located on a single DB-37 connector.

2.0 Interconnect Cable Assembly

On the existing IP-223 to MTRBi cable, using a TORX T-10 bit, remove only the DB-25 and DB-9 connector covers labeled “To IP-223”. The IP-224 is delivered with two sets of DB-37 connectors and covers.

To **connect the cable assembly**, do the following:

1. Locate an **end** and slowly unsolder one IP-223 connector at a time as they have the same color code.
2. Re-solder the **wires** to the DB-37 per Table 1 below.
3. Repeat with the **second IP-223** connector and ohm out your work.

TABLE 1. Cable Assembly Pin Outs

IP-223 DB-9	IP-223 DB-25	IP-224 DB-37	MTRBi DB-9	Signal
	25	20	1	MIC +
	24	1	4	RX +
	20	15	6	COR
	7	29	9	Audio GND
5		9	5	GND
3		36	2	RX Data
2		17	3	TX Data
-	-	-	-	Shield/Drain Wire

NOTE: Shield wires need to be connected between all DB connector’s shrouds.

Notes:

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Suggestions or comments:

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