Technical Support
TECHNICAL NOTE

TECHNICAL NOTE TN-1119

Circuit Board versions used in the TM8200 6m Remote Kits

21 November 2005

Applicability

This Technical Note provides a definition of the Printed Circuit Board IPN's as used in the TM8200 6m Remote Kits.

1.   Product Codes

The TM8200 6m Remote Kit has been available in two different versions. Neither design is compatible with the other.

Remote Kit IPN's

TMAA03-05 (Obsolete)

This kit comprised PCB's with IPN's:
220–01720-xx (Torso end interface board).
220-01721-xx (Control Head end interface board)

This kit (was) also available for the TM9100 as TMAA03-21.

TMAA03-16 Single head 6m remote kit

This kit comprises PCB's with IPN's:
220-02123-xx (Torso end interface board).
220-02122-xx (Control Head end interface board).

This kit is also available for the TM9100 as TMAA03-25.

TMAA03-19 Enhanced 6m remote kit

This kit comprises PCB's with IPN's:
220-02123-xx (Torso end interface board).
220-02122-xx (Control Head end interface board).

This kit is also available for the TM9100 as TMAA03-08.

NOTE: It is important the versions are not mixed in an installation; the interfacing lines between the torso and head control boards are quite different. They will not work (Power-up etc). The descriptions on the next page were also listed in TN-1078.

Remote Kit
TMAA03-16

As viewed from the front of the connector

Pin	Name	Description
1	ON/OFF	Radio on/off control.
2	13V8	Default setting is a switched +13V8 line.
3	RS485+	RS485 data.
4	AGND	Analogue ground.
5	MIC AUDIO	Analogue electret mic input.
6	RS485-	RS485 data.
7	SPKR-	Speaker audio, balanced output.
8	SPKR+	Speaker audio, balanced output.

As used in the TMAA03-16 (TM8200) and TMAA03-25 (TM9100). This applies to the socket on the torso interface and on the control-head interface. This product has a red LED visible through the front panel when powered-on. Uses the 220-02123-xx PCB.

Enhanced Remote Kit
TMAA03-19

As viewed from the front of the connector

Pin	Name	Description
1	RX_AUDIO	Analogue receive audio – after volume control.
2	13V8	Default setting is a switched +13V8 line.
3	RS485+	RS485 data.
4	AGND/PTT	Default setting is analogue ground.
5	MIC AUDIO	Analogue electret mic input.
6	RS485-	RS485 data.
7	DGND	Digital ground.
8	ON/OFF	Radio on/off control.

As used in the TMAA03-19 (TM8200) and TMAA03-08 (TM9100). This applies to both sockets on the torso interface and the socket on the control-head interface. This product has a green LED visible through the front panel when powered-on. Uses the 220-01720-xx PCB.

Telemetry Head
TM8252

As viewed from the front of the connector

Pin	Name	Description
1	RX_AUDIO	Analogue receive audio – after volume control.
2	13V8	Default setting is a switched +13V8 line.
3	TXD	Transmit data, 3V3 CMOS.
4	PTT	PTT input from microphone, also used for hookswitch signal.
5	MIC AUDIO	Analogue electret mic input.
6	AGND	Analogue ground
7	RXD	Receive data, 3V3 CMOS.
8	ON/OFF	Radio on/off control.

As used in the TMAC30-0T Blank Head (TM8252). This product has a green LED visible through the front panel when powered-on.
Uses the 220-01720-xx PCB but the second RJ-45 socket is not functional.

| **Compliance Issues** | None. |

| **CSO Instruction** | Inform all service staff and dealers of the released information. |

2.   Issuing Authority

| **Name and Position of Issuing Officer** | Graham Brenchley
Technical Support Engineer |

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| **Distribution Level** | Associate. |

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