MOTOROLA INC.
*Communications
Sector*

OPTION C233AT-SP

WILDCARD MODULE WITH 4 RELAYS

FOR MSF 5000™ DIGITAL CAPABLE STATIONS

1. ATTACHMENT

-- Wildcard Module Instruction Section   68P81114E40

2. DESCRIPTION

Option C233AT-SP is used in conjunction with Option X20AC-SP (Special Programming
For *MSF 5000* Digital Capable Stations) to provide 4 "Form C" relay closures. These
relay closures provide the following indications: 1.) PA has low power output and,
2.) the receiver or transmitter synthesizer is out-of-lock. The relay closures are
available at connector J1 located on the station junction box.

3. MODEL COMPLEMENT

Option C233AT-SP makes the following changes to the standard station model.

ITEM	DESCRIPTION	CHANGE
TKN8985A	Wildcard Cable Kit	Added
TRN5353A	Auxiliary Connector Plug	Deleted
TRN9118A	Wildcard Bezel	Replaces TRN5954A Bezel
TRN9754A-SP53	Wildcard Module	Added

4. TRN9754A-SP53 WILDCARD MODULE

This special "SP53" wildcard module is a modified version of the standard module
described in attached instruction section 68P81114E40. Modifications to the module
are as follows:

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- Jumpers JU8, 10, 77, 82, 87, 92, 107 and 108 are removed
- Jumper JU7 is installed
- U1302 pin 11 is connected to U1305 pin 12
- U1302 pin 10 is connected to U1305 pins 4 and 13
- Diodes CR1301 through CR1304 are installed (part no. 4882392B03)
- Relays K1301 through K1304 are installed (part no. 8084201A01)
- Four relay spacers are installed with relays (part no. 4384920H01)

5.   RELAY OPERATION

The relay closures are available at connector J1 on the station junction box. The
relay contacts are terminated at J1 with the following pin assignments. Refer to
the wildcard schematic diagram in attached instruction section 68P81114E40 for
details.

ALARM CONDITION INDICATED	MUXBUS BIT	RELAY CONTACT NO	COM	NC
RX SYNTHESIZER OUT-OF-LOCK	RWC5	7	8	9
PA LOW POWER OUTPUT	RWC2	4	5	6
RX/TX SYNTHESIZER OUT-OF-LOCK	RWC3	1	2	3
TX SYNTHESIZER OUT-OF-LOCK	RWC8	16	15	14

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