

instruction
manual
revision

GENERAL

This appendix contains changes that have been made since the printing of your Owner's Guide number 68P02952C60-A. Use this information to update your Owner's Guide.

REVISION DETAILS

The new model numbers are M80AMN0KV5BK, M81AMN0KV5BK and M85AMN0KV5BK.

Please add the attached chapters to the above Owner's Guide.

DATE: 10.12.01

PAGE 1 OF 4 PAGES

MODIFICATIONS ON MICOM-2ES
IN CONTRAST WITH MICOM-2E

CONTENTS

MICOM-2ES ALE Front Mount Model Complements & Accessories.....	2
MICOM-2ETS ALE Trunk Mount Model Complements & Accessories.....	2
MICOM-2RS ALE Rugged Model Complements & Accessories.....	2
TABLE: New Pin (from 26 to 44) Assignments of Accessory Connector J5.....	3
RETROFIT INSTRUCTIONS FROM MICOM2 TO MICOM2S.....	3
MULTI – NET.....	3
DESCRIPTION.....	3
OPERATION OF THE MULTI-NET APPLICATION.....	4

MICOM-2ES ALE MODEL COMPLEMENTS
Front Mount – MODEL M80AMN0KV5BK

FLN2768A	Low RF Assembly
FHN5781A	Low RF Hardware
FLN9339A	Lord For Micom3

FIXED ADAPTOR ACCESSORY

09MB000011 Interface connector from 25 to 44 (Note 1)

MICOM-2ETS ALE MODEL COMPLEMENTS
Trunk Mount – MODEL M81AMN0KV5BK

FLN2768A	Low RF Assembly
FHN5781A	Low RF Hardware
FLN9339A	Lord For Micom3

FIXED ADAPTOR ACCESSORY

09MB000011 Interface connector from 25 to 44 (Note 1)

MICOM-2RS ALE MODEL COMPLEMENTS
Rugged Mount – MODEL M85AMN0KV5BK

FLN2769A	Lord Unit RUG
FHN5962A	Low RF Hardware RUG
FLN9339A	Lord For Micom3

FIXED ADAPTOR ACCESSORY

09MB000011 Interface connector from 25 to 44 (Note 1)

Note 1: The MICOM-2ES ALE, MICOM-2ETS ALE, MICOM-2RS ALE accessory connector is 44 pin. For connecting MICOM-2E ALE, MICOM-2ET ALE, MICOM-2R ALE accessory devices is required to connect first the fixed adapter 09MB000011. The fixed adapter is pin to pin compatible.

Table: New Pin (from 26 to 44) Assignments of Accessory Connector J5

P i n N u m b e r	P i n N a m e	F u n c t i o n	I n p u t / O u t p u t	N o t e s
26	GND	Ground	Output	
27	GND	Ground	Output	
28	ALE_CHANNEL_CHANGE	Interrupt Change channel.	Input	
29	TXD_	Point to Point protocol to HOST.	Input	Option
30	SPARE_1	I/O Option	I/O	Not connected
31	AUDIO_SW	Digital switch open Tx Rx audio channel.	Input	
32	TX_AUDIO_OUT	Audio Input to audio Tx from accessory device.	Input	
33	RXD_	Point to point protocol to HOST	Input	
34	RX_AUDIO_OUT	Audio Input to Rx audio from accessory device.	Input	
35	RX_AUDIO_IN	Audio Output from Rx audio to accessory device.	Output	
36	ALC_500W	Maintain cons. Power at 500W transceiver output.	Input	
37	OPT_OUT	Digital Output.	Output	
38	OPT_IN_OUT	Digital I/O.	Input/ Output	
39	SPARE_2	I/O Option	I/O	Not connected
40	TX_AUDIO_IN	Audio Output from Rx audio to accessory device.	Output	
41	EXT_RX_AUDIO(2)+	HYBRID Option	Output	Not connected
42	EXT_TX_AUDIO(2)+	HYBRID Option	Output	Not connected
43	EXT_TX_AUDIO(2)-	HYBRID Option	Output	Not connected
44	EXT_RX_AUDIO(2)-	HYBRID Option	Output	Not connected

RETROFIT INSTRUCTIONS FROM MICOM2 TO MICOM2S:

1. Switch the LORD BOARD from FRN5869A to FLN9339A.
2. Place 150Ω-(0611077A54) resistor, parallel to R274 on the HIGH POWER BOARD.
3. Use FIXED ADAPTOR ACCESSORY- (09MB000011) to Interface connector from 25 to 44 (If necessary).
4. Calibrate the Power output parameters of the Radio via the Radio RSS INTERFACE, into TECHNICIAN MODE.

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Multi-Net:

Description:

Multiple net operations:

The radio is capable of operation in multiple nets simultaneously. A net is defined as a group of stations that scan the same frequencies. The MICOM can support, at least 20 nets. Each net includes the following elements:

A group of receiveing and associated transmitting frequencies.

The self-address and net address that will be used when responding to calls.

The radio responds according to the selected net self-address, the total of all self-addresses are 20.

The sounding is per net (group of channels) for all channels one by one .

The starting time is 10 minute after the power is switched on. And the sounding group interval is according to the sounding auto time that was programmed by the ALE-RSS.

PAGE 4 OF 4 PAGES

In actual operation, the MICOM radio will be scanning all the frequencies that make up the nets. When it receives a call, it will respond with the self-address that is programmed in the radio for that net. When initiating a call, the MICOM looks up the frequencies that are associated with the station you are calling and uses only those frequencies to call that station. LQA exchanges or sounds will use only those frequencies associated with the net that is selected.

Operation the Multi-Net application:

Programming and Operation:

1.Program each net according to the RSS ALE (Channels, Members and etc..)

2.After programming the ALE through the RSS the radio default scanning mode is according to the selected NET.

3.Operating in Multi-Net:

From the control panel enter to the ALE programming menu and under the OPT tree find the Mnt function and active this mode.

4.Calling sign length:

The default length of the calling sign is according to the channel numbers associate in the net or in all nets in Multi-Net operation.

Under the same OPT tree we add the MxCh mode to change the calling sign length.

The MxCh numbers the channels multiply to the constant scanning time.

5. Sounding intervals:

The sounding intervals are per net.

From the control panel enter to ALE programming enter to NET programming and enter to SOND. Define the sounding interval per net, or use the ALE RSS to define the sounding time interval.

68MB000009

DATE: 10.12.01

6. Calling in Multi-Net:

Press CALL, select the NET # , Press ENTER, select the address and press SEND.

7. Calling from single NET radio to a Multi-Net radio:

In those cases the on single NET radio you should defined the ALE signaling length according to the channels associate in the Multi-Net radio.

Use the MxCh parameter and define the number of channels associate in the Multi-Net radio.

When selecting AUTO the radio is calculating the ALE calling sign according to the channels associate on your radio in single NET or in Multi-Net.