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INTERFACE KIT

IF-10A
IF-10B

INSTRUCTION MANUAL

TRIO-KENWOOD CORPORATION

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WARNING

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Sub-part J of Part 15 of FCC Rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this computer. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Thank you for purchasing the new IF-10A/10B interface kit. Please read this instruction manual carefully before placing your interface kit in service. This unit has been carefully engineered and manufactured to rigid quality standard, and should give you satisfactory and dependable operation for many years.

This instruction manual describes both the IF-10A and the IF-10B. When appropriate, separate descriptions are given for these two items.

**IF-10A: INTERFACE KIT FOR THE TS-811A/811B/811E/
711A/711E**

IF-10B: INTERFACE KIT FOR THE TS-940S

The IF-10A/10B interface kit is designed to be installed internally in transceivers such as the TS-940S/811A/811B/811E/711A/711E, to allow computer assisted control of various transceiver operating parameters. Control is performed via the computers RS-232C terminal via the IF-232C interface (level translator).

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1. FEATURES

1. A wide variety of control instructions are possible.
2. Powerful, easy-to-understand instruction set.
3. Common commands that are interchangeable between different transceivers, reducing the number of changes necessary in software development.
4. Simultaneous operation of personal computer and transceiver.

2. SUPPLIED ACCESSORIES

The following accessories are supplied with the unit. Confirm that all are present.

1. EPROM (MBM2732A-30) 1 ea.
2. Boss (IF-10A only)..... (J32-0795-04)..... 2 ea.
3. Pan-head screw (IF-10A only)..... (N30-2605-41) 2 ea.
4. Self tapping screw (IF-10B only)..... (N35-2605-41) 2 ea.
5. DIN connector bracket (IF-10A only)..... (E06-0655-05)..... 1 ea.
6. Instruction manual..... (B50-8065-00)..... 1 ea.

Note:

The IF-10A/10B does not include computer software, guidelines are provided but due to the wide variety of computers available, all of which have their own languages it is left up to the owner to design his or her own software package.

3. SPECIFICATIONS

3-1. Interface

Communication method Serial interface, full-duplex
Transfer rate..... 4800 BPS (bits per second)
Synchronization..... Start-stop (Asynchronous)
Bit construction..... 1 start bit, 8 character bits, 2 stop bits
Parity..... None
Signal format..... TTL level

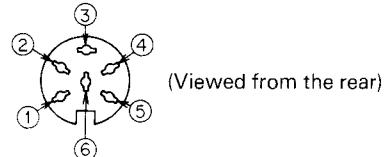
3-2. Terminal connections

Pin No.	Signal Name		I/O
1	GND	Signal ground	
2	TXD	Transmit data	Output
3	RXD	Receive data	Input
4 (Note)	CTS	Transmit enable	Input
5	RTS	Receive enable	Output
6	NC		

Note: For the TS-940S pin 4 is +5 V.

- GND: This is the signal ground terminal.
TXD: The transmit data is the serial data from the transceiver to the computer. The output utilizes negative logic.
RXD: The receive data is the serial data from the computer to the transceiver. The input utilizes negative logic.
CTS: This signal is supplied from the computer, and is used to inhibit transmit data from the transceiver when the computer is not ready to receive. The input utilizes positive logic. (Transmit data is stopped by a logic low.) [Except TS-940S]
RTS: This signal is applied to the computer, and is used to inhibit transmit data from the computer when the transceiver is not ready to receive it. The output utilizes positive logic. (Inhibit is requested when the level is low.)

Connector pin configuration



4. INSTALLATION

4-1. IF-10A

Caution:

Before removing the cover be sure to disconnect the power cable, or damage may result to the radio or interface kit.

1. Remove the eight screws securing the upper cover using a # 2 Phillips screwdriver.
2. Remove the two screws marked \ominus from the control unit, and install the supplied bosses.
3. Plug the interface board onto the 7 pin connector (J5) and 9 pin connector (J6) as shown in the illustration.
4. Secure the circuit board using the two screws removed in step number 2.
5. Remove the plastic plug that is currently installed in the ACC1 jack area, at the upper rear corner of the radio.
6. Install the DIN connector using the bracket supplied, as shown in the illustration.
7. Install the EPROM (Erasable and Programmable Read Only Memory) into the vacant socket on the circuit board.

Caution:

Align the notch on the EPROM with the notch in the socket, or damage to the EPROM and or circuit board may result!

8. Replace the top cover.

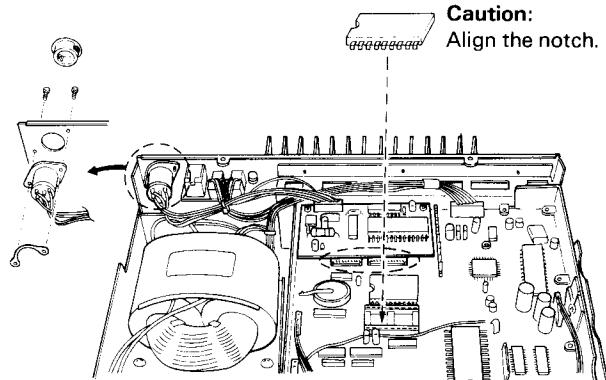


Fig. 4-1

4-2. IF-10B

Caution:

Before removing the cover be sure to disconnect the power cable, or damage may result to the radio or interface kit.

1. Remove the eight screws securing the transceiver's upper cover, using a # 2 Phillips head screwdriver, and remove the top cover.
2. Remove the four screws that secure the speaker mounting bracket to the chassis and swing the bracket up towards the AT (antenna tuner) unit. Be especially careful of the wiring harness. Don't stretch the cable harness.
3. Next remove the four screws that secure the shield covering Digital A unit. Swing the cover to the side. Again be careful of the wiring harness.
4. Place the interface unit on the hexagonal boss on the Digital A unit, and secure it with the screws provided with the interface kit.
5. Connect the connector on Digital A unit to the interface unit as shown in Fig. 4-6.
6. Install the expansion EPROM (Erasable and Programmable Read Only Memory) into the vacant socket on the digital unit. Orientation of this component is critical for proper operation of the radio, and interface.

Caution:

Install the EPROM so that the notch in the end is on the same end as the notch in the IC socket.

7. Replace the shield cover. Do not pinch any wires under the cover when you tighten it down.
8. Reinstall the speaker mounting bracket, confirming that the connector located on the left side of the digital A unit is secure, and not pinched under the bracket.
9. Replace the top cover.

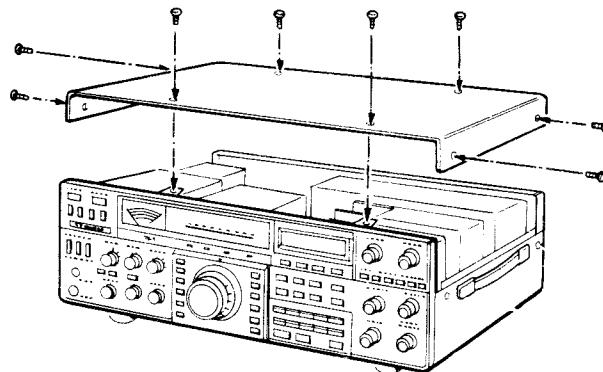


Fig. 4-2

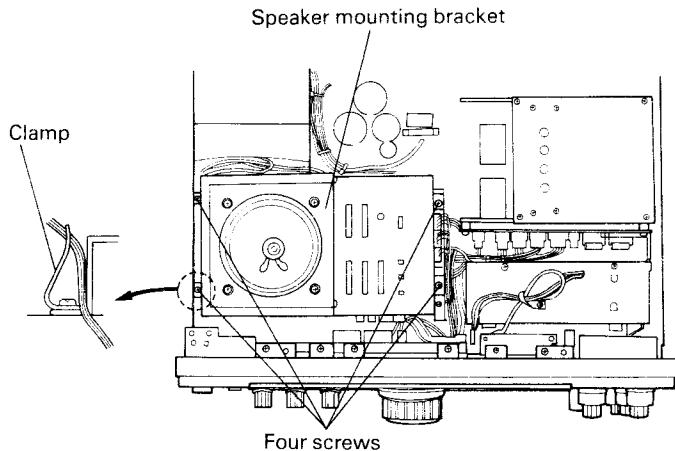


Fig. 4-3

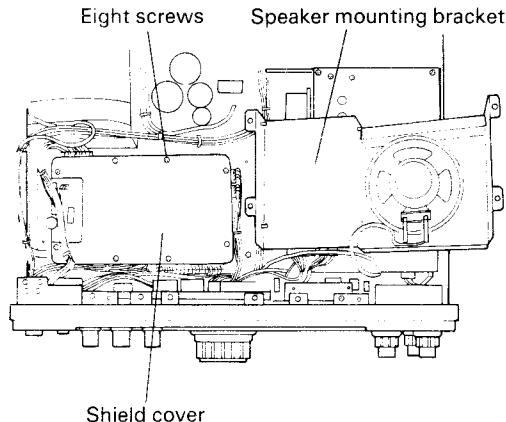


Fig. 4-4

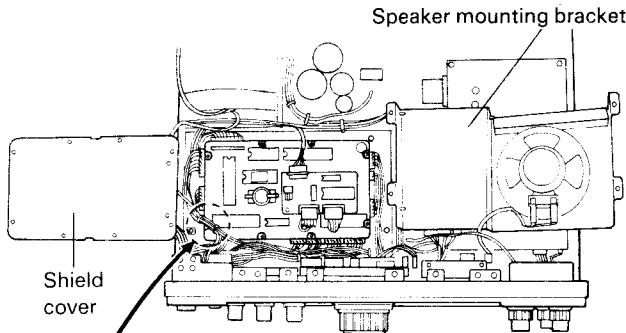


Fig. 4-5

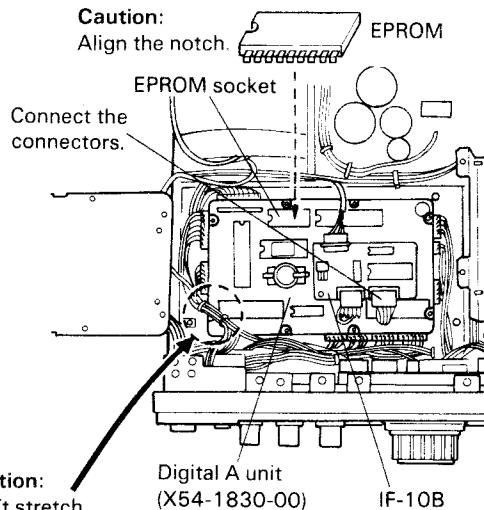


Fig. 4-6

5. OPERATION

Caution:

Turn the POWER switch OFF before making connections.

5-1. Precautions for Computer-Connected Operation

When connecting the transceiver with a computer, check the following points.

1. Are the connections correct?

The transceiver output should be connected to the computer input and the transceiver input to the computer output.

Example:

Transceiver's receive data — Computer's receive data

Transceiver's RTS — Computer's CTS

2. Is the computer's transmission rate 4800 BPS (bits per second)?
3. Is the computer's bit configuration correct?
1 start bit, 8 character bits, 2 stop bits, no parity.

5-2. Control Operation

Most computers handle data in the form of "bits", and "bytes". A bit is the smallest piece of information that the computer can handle. A byte is composed of 8 bits. This is the most convenient form for most computer data. This data may be sent in the form of either serial or parallel data strings. The parallel mode is faster, but more complicated,

while the serial form is slower it requires less complicated equipment, and therefore is less expensive.

Serial transmission of data occurs over a single line using time-division methods. This use of a single line also offers the advantage of reducing the number of errors due to line noise.

For control of the transceiver via the computer only three lines are theoretically required: transmit data (TXD), receive data (RXD), and ground (GND). From a practical standpoint it is also necessary to incorporate some means of controlling when this data transfer will occur. We don't want the computer and transceiver sending information at the same time! This is controlled by the RTS and the CTS lines.

The IF-232C and the IF-10A/10B are used in conjunction to provide voltage conversion. RS-232C deals in voltages above and below TTL levels, and must be converted to prevent damage to the transceiver. This interface/conversion is handled by the IF-232C.

The actual command sequence would be similar to those described below:

For example, the radio is placed into the transmit mode whenever the character string "TX" is sent from the computer. The character string "TX" is called a command. It tells the transceiver to do something. There are approximately 25 to 30 different commands available for control of the transceiver.

These commands may be incorporated into a computer program written in BASIC or any other high level language

such as PASCAL, etc. Programming methods vary from computer to computer so please refer to the instruction manuals included with your terminal program, and computer.

5-3. Commands

The illustration below demonstrates that a command is composed of two alphabetical characters, various parameters, and the terminator to signal the end of the command.

Example:

FA 000070000000 ; Command to set
VFO A to 7 MHz.
↑ ↑ ↑
Command Parameters Terminator

5-3-1. Command description

A command may consist of either lower or upper case alphabetical characters.

5-3-2. Parameter description (Refer to the parameter list.)

Parameters are used to specify specific information necessary to implement the desired command. The exact number of parameters necessary for each command is predetermined. If a particular parameter is not applicable

to the transceiver you are controlling the parameter digits should be filled using any character except the terminator ";".

For example the MC (Memory channel selector) command uses two parameters, 1 column to specify the memory bank number, and 2 columns to specify the memory channel number. To specify CH9 of memory bank number 1, the command would be:

"MC109;" The memory bank number is not necessary when programming the TS-811A/811B/811E/711A/711E so the command could be as given above "MC109" or as:

"MC 09;" In this case a blank has been used to fill the parameter block for the memory bank number.

The following are examples of bad commands:

"MC09;" No memory bank specification (not enough parameters)

"MC19;" Not enough digits in the memory channel parameter, i.e. CH9 should be given as "09".

"MC 1 09;" Unnecessary characters between parameters.

"MC109" No terminator

Parameter list

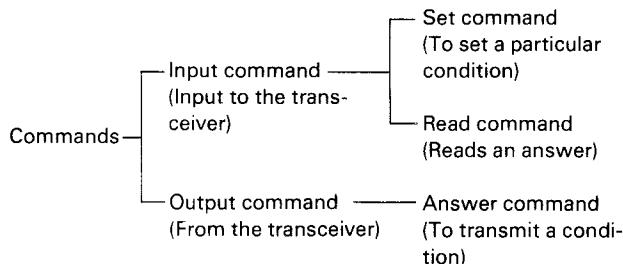
Format No.	Name	Number of columns	Format	
1	SW	1	0 = OFF	1 = ON
2	MODE	1	1 = LSB 2 = USB 3 = CW (AM, FSK: TS-940S only)	4 = FM 5 = AM 6 = FSK
3	FUNCTION	1	0 = VFO A 1 = VFO B (COM: TS-811A/811B/ 811E/711A/711E only)	2 = MEMORY 3 = COM
4	FREQUENCY	11	Represented in Hz, using 11 columns Example: 00007200000 is 7.2 MHz 10 GHz 1 MHz 1 kHz 1 Hz	
5	RIT FREQUENCY	5	The first column is "+" or "-", and the remaining four columns indicate the frequency in Hz. Example: +5320 is +5.32 kHz	
6	STEP FREQUENCY	5	Represented in Hz, using 5 columns	
7	MEMORY CHANNEL	2	Represented in two columns Example: 02 is CH2	
8	MEMORY BANK	1	Represented using one column. (TS-940S only)	
9	MEMORY CHANNEL SPLIT SPECIFICATION	1	O = Receive 0 = Not locked out 1 = Locked out (TS-811A/811B/811E/711A/711E only)	1 = Trsnsmitt

Format No.	Name	Number of columns	Format
10	MEMORY LOCKOUT	1	O = Not locked out 1 = Locked out (TS-811A/811B/811E/711A/711E only)
11	TX/RX	1	0 = Receive 1 = Transmit
12	PASSBAND	2	Represented using two columns, from 00 to 31. "00" is the normal or wide position and "31" is the narrowest bandwidth (TS-940S only)
13	OFFSET	1	0 = SIMPLEX 2 = - 1 = + (TS-811A/811B/811E/711A/711E only)
14	TONE FREQUENCY	2	Represented using two columns, from 01 to 37. This corresponds to the number displayed on the M.CH display during tone select operation. (TS-811A/811B/711A only)
15	CALL SIGN	6	Represented using 6 columns. Example: WD6DJY
16	MODEL NO.	3	Three column number specifying each set.

5-3-3. Terminator

To signal the end of a command it is necessary to use a special character. The character that has been selected for use is the semi-colon “;”. This special character must appear as the last character in a particular command string.

5-3-4. Types of commands



5-3-5. Error messages

In addition to the answer command, the transceiver will send one of the following error messages:

?	<ul style="list-style-type: none"><input type="radio"/> When the command syntax is incorrect.<input type="radio"/> When the command was not executed due to the current status of the transceiver, even though the command syntax was correct. <p>Note: Occasionally this message may not appear due to microprocessor transients in the transceiver.</p>
E;	When a communication error occurs, such as an overrun error or framing error occurs during serial data transmissions.
O;	When the receive data is sent but processing cannot be completed.

Commands can be classified as shown in the chart above. For example, with the FA (Frequency of VFO A) command.

- To set the frequency at 7 MHz, the command sent from the computer to the transceiver is:
“FA0000700000;” (Set command)
- To read the frequency of VFO A, the command sent from the computer to the transceiver is:
“FA;” (Read command)
- When the read command, above, has been sent, the command returned to the computer is:
“FA0000700000;” (Answer command)

5-3-6. How to read the command tables

Command	Name	The number of the command columns is shown.																																																																	
AI AUTO INFORMATION																																																																			
Applicable models for the command	Applicable models	TS-940S/811A/811B/811E/711A/711E																																																																	
Function of the command	Function	AUTO INFORMATION ON/OFF setting																																																																	
The format of the command is shown. When oblique lines are drawn in the 1st and 2nd columns there is no set command.	Set command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>A</td><td>I</td><td>P1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	A	I	P1											14	15	16	17	18	19	20	21	22	23	24	25	26																										
1	2	3	4	5	6	7	8	9	10	11	12	13																																																							
A	I	P1																																																																	
14	15	16	17	18	19	20	21	22	23	24	25	26																																																							
The format of the command for reading the sets condition is shown. When oblique lines are drawn in the 1st and 2nd columns, there is no read command.	Input commands Read command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26																										
1	2	3	4	5	6	7	8	9	10	11	12	13																																																							
14	15	16	17	18	19	20	21	22	23	24	25	26																																																							
The format of the command output from the transceiver is shown. When oblique lines are drawn in the 1st and 2nd columns, there is no answer command.	Output commands Answer command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>I</td><td>F</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table> <p style="text-align: center;">For parameters, refer to "IF" command</p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	I	F												14	15	16	17	18	19	20	21	22	23	24	25	26	1	2	3	4	5	6	7	8	9	10	11	12	13	27	28	29	30	31	32	33	34	35	36	37	38	39
1	2	3	4	5	6	7	8	9	10	11	12	13																																																							
I	F																																																																		
14	15	16	17	18	19	20	21	22	23	24	25	26																																																							
1	2	3	4	5	6	7	8	9	10	11	12	13																																																							
27	28	29	30	31	32	33	34	35	36	37	38	39																																																							
<ul style="list-style-type: none"> (1) The "Auto Information" function checks the condition of the set on when a change is detected automatically sends the IF command. (2) With the TS-940, the check time is longer than 1.5 seconds during 																																																																			

Corresponds to the parameter of the command format.

Parameter	Format	Parameter function
P1	1	AI ON/OFF

Scanning or TUNING dial rotation.

Corresponds to the format No. in the parameter list. For the parameter formats, refer to the parameter list.

Indicates the parameters function.

Usage of command, details of functions, and cautions are described.

5-3-7 Command Use Precautions

Model	Precaution
TS-940S/ 811A/811B/ 811E/711A/ 711E	The control characters (00 to IFH) when included in receive data are ignored.
TS-940S	Program execution may be delayed during rapid encoder rotation.
TS-940S	The MW (Memory Write) command cannot be executed during memory channel operation.

Model	Precaution
TS-940S	Receive data is not processed when directly entering the frequency from the keyboard or while the T-F SET key is depressed.
TS-811A	Note: When the microprocessor is reset, as when changing the lithium battery, re-enter M.CH1 first by pressing the M.IN switch, or improper operation may result when operating with computer.

5-3-8. Command list

Command	Function	Model					Page
		TS-940S	TS-811A TS-811B	TS-811E	TS-711A	TS-711E	
AI	AUTO INFORMATION	○	○	○	○	○	16
AT	ANTENNA TUNER	○					17
DI	DCS ID		○	○	○	○	18
DN/UP	DOWN/UP	○	○	○	○	○	19
DS	DCS		○	○	○	○	20

Command	Function	Model					Page
		TS-940S	TS-811A TS-811B	TS-811E	TS-711A	TS-711E	
FA/FB	FREQUENCY VFO A/FREQUENCY VFO B	○	○	○	○	○	21
FN	FUNCTION	○	○	○	○	○	22
HD	SCAN HOLD	○					23
ID	ID	○	○	○	○	○	24
IF	INFORMATION	○	○	○	○	○	25
LK	LOCK	○	○	○	○	○	26
LO	LOCAL	○					27
MC	MEMORY CHANNEL	○	○	○	○	○	28
MD	MODE	○	○	○	○	○	29
MR	MEMORY READ	○	○	○	○	○	30
MS	MEMORY SCAN	○					31
MW	MEMORY WRITE	○	○	○	○	○	32
OS	OFFSET		○	○	○	○	33
RC	RIT CLEAR	○	○	○	○	○	34
RD/RU	RIT DOWN/RIT UP	○	○	○	○	○	35
RT	RIT	○	○	○	○	○	36
RX/TX	RX/TX	○	○	○	○	○	37
SC	SCAN	○	○	○	○	○	38
SH/SL	SLOPE TUNE HIGH/SLOPE TUNE LOW	○					39
SP	SPLIT	○	○	○	○	○	40
ST	STEP		○	○	○	○	41
TN	TONE NUMBER		○		○		42
TO	TONE		○	○*	○	○*	43
VB	VBT	○					44
VR	VOICE RECALL	○	○	○	○	○	45
XT	XIT	○					46

* This command is not applicable to "KENWOOD" versions of the TS-811E/711E.

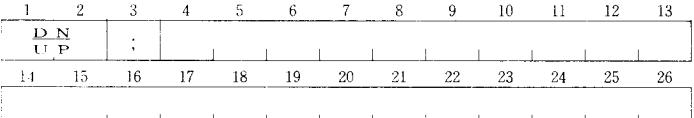
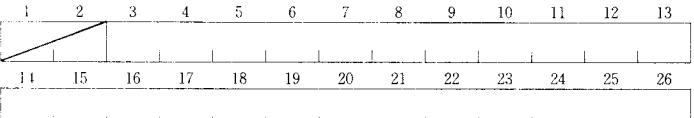
Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function		
Function	AUTO INFORMATION ON/OFF setting																P1	1	AI ON/OFF
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13					
	Set command	A	I	P1	:														
Input commands	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13					
	Read command																		
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13					
	Answer command	I	F	For parameters, refer to "IF" command															
Description	Answer command	14	15	16	17	18	19	20	21	22	23	24	25	26					
	Answer command	27	28	29	30	31	32	33	34	35	36	37	38	39					
(1) The "Auto Information" function checks the condition of the set once approximately every 1.5 seconds and when a change is detected automatically sends the IF command. (2) With the TS-940, the check time is longer than 1.5 seconds during scanning or TUNING dial rotation.																			

AT ANTENNA TUNER

Applicable model		TS-940S													Parameter	Format	Parameter function				
Description	Function	Antenna tuner standby operation																			
	Input commands	Set command																			
		Read command																			
	Output commands	Answer command																			

Applicable models		Parameter		Format	Parameter function																																																																														
Function	DCS call sign readout		P1	15	Call sign of your station																																																																														
Input commands	Set command			P2	15	Call sign of receiving station																																																																													
		<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td colspan="13"> </td></tr> </table>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																																																						
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27	28	29	30	31	32	33	34	35	36	37	38	39																																																																							
Description	The call sign of the receiving station should read out as soon as a signal is received. The analysis of incoming call signs is continuous. However the call sign may be incorrectly display due to noise.																																																																																		

DN **UP** DOWN/UP

	Applicable models	Parameter	Format	Parameter function																																																																																										
Function	Same function as microphone UP/DOWN switch																																																																																													
Input commands	<p>Set command</p>  <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>D</td><td>N</td><td></td><td>;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>P</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table> <p>Read command</p>  <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	D	N		;										U	P												14	15	16	17	18	19	20	21	22	23	24	25	26	1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26		
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Output commands	Answer command																																																																																													
Description																																																																																														

Applicable models		TS-811A/811B/811E/711A/711E													Parameter	Format	Parameter function									
Function	DCS system ON/OFF selection and readout															P1	1	DCS ON/OFF								
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13	D	S	P1	;								
	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13	D	S	;									
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13	D	S	P1	;								
		14	15	16	17	18	19	20	21	22	23	24	25	26												
Description																										

FA

FB

FREQUENCY VFO A/FREQUENCY VFO B

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																																																		
Function	VFO A and VFO B frequency selection and readout															P1	4	FREQUENCY																																																																																																	
Input commands	Set command	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td><td></td><td></td> </tr> <tr> <td colspan="2">F A</td><td colspan="14">P1</td> </tr> <tr> <td colspan="2">F B</td><td colspan="14"></td> </tr> <tr> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td><td></td><td></td> </tr> <tr> <td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		1	2	3	4	5	6	7	8	9	10	11	12	13				F A		P1														F B																14	15	16	17	18	19	20	21	22	23	24	25	26				:																																															
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Output commands	Read command	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td><td></td><td></td> </tr> <tr> <td colspan="2">F A</td><td colspan="14"></td> </tr> <tr> <td colspan="2">F B</td><td colspan="14"></td> </tr> <tr> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		1	2	3	4	5	6	7	8	9	10	11	12	13				F A																F B																14	15	16	17	18	19	20	21	22	23	24	25	26																																																			
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Description	Answer command	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td><td></td><td></td> </tr> <tr> <td colspan="2">F A</td><td colspan="14">P1</td> </tr> <tr> <td colspan="2">F B</td><td colspan="14"></td> </tr> <tr> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		1	2	3	4	5	6	7	8	9	10	11	12	13				F A		P1														F B																14	15	16	17	18	19	20	21	22	23	24	25	26																				27	28	29	30	31	32	33	34	35	36	37	38	39																			
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FN FUNCTION

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function									
Function	VFO A and VFO B MEMORY COM setting (COM: TS-711/811 Only)															P1	3	FUNCTION								
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13	F	N	P1	;								
		14	15	16	17	18	19	20	21	22	23	24	25	26												
	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13												
		14	15	16	17	18	19	20	21	22	23	24	25	26												
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13												
		14	15	16	17	18	19	20	21	22	23	24	25	26												
Description		27	28	29	30	31	32	33	34	35	36	37	38	39												

HD SCAN HOLD

Applicable model		TS-940S													Parameter	Format	Parameter function
Description	Function	Temporary scan.													P1	15	SCAN HOLD ON/OFF
	Input commands	Set command															
	Read command	H D P1 ;															
	Output commands	H D ;															
	Answer command	H D P1 ;															

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Function	Model No. readout for transceiver recognition.																P1	16	MODEL No. TS-711: 001 TS-811: 002 TS-940: 003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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LO LOCAL

	Applicable model	TS-940S	Parameter	Format	Parameter function																																																																																																							
Function	When a personal computer is used to control VBT etc., the transceivers associated controls are disabled. This command releases control back to the transceivers controls.																																																																																																											
Input commands	<p>Set command</p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>L</td><td>O</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>Read command</p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	L	O	:											14	15	16	17	18	19	20	21	22	23	24	25	26														1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26																
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Output commands	<p>Answer command</p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26														27	28	29	30	31	32	33	34	35	36	37	38	39																																										
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27	28	29	30	31	32	33	34	35	36	37	38	39																																																																																																
Description	When the VB, SL, SH, MC or TX command is executed, the associated switches and controls will not function until the LO command is sent from the computer.																																																																																																											

MC MEMORY CHANNEL

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function
Function	Memory channel setting													P1	8	MEMORY BANK	
														P2	7	MEMORY CHANNEL	
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		M	C	P1	P2	:											
Input commands	Read command	14	15	16	17	18	19	20	21	22	23	24	25	26			
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13			
Description	With the TS-940, this command will disable the MEMORY BANK switch associated top cover switch.																

MD MODE

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function
Function	Mode setting													P1	2	MODE	
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		M	D	P1	:												
		14	15	16	17	18	19	20	21	22	23	24	25	26			
Input commands	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		14	15	16	17	18	19	20	21	22	23	24	25	26			
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		14	15	16	17	18	19	20	21	22	23	24	25	26			
		27	28	29	30	31	32	33	34	35	36	37	38	39			
Description																	

MR

MEMORY READ

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																		
Function	Memory display													P1	9	SPLIT SPECIFICAITON																																																																			
														P2	8	MEMORY BANK																																																																			
Set command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23	24	25	26																P3	7	MEMORY CHANNEL																									
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Input commands	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td></tr> <tr><td>M</td><td>R</td><td>P1</td><td>P2</td><td>P3</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13		M	R	P1	P2	P3	:									14	15	16	17	18	19	20	21	22	23	24	25	26																P5	2	MODE											
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Output commands	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td></tr> <tr><td>M</td><td>R</td><td>P1</td><td>P2</td><td>P3</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13		M	R	P1	P2	P3	:									14	15	16	17	18	19	20	21	22	23	24	25	26																P9	13	OFFSET (TS-811A/811B/ 811E/711A/711E only)											
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M	R	P1	P2	P3	:																																																																														
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Answer command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td></tr> <tr><td>M</td><td>R</td><td>P1</td><td>P2</td><td>P3</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13		M	R	P1	P2	P3	:									14	15	16	17	18	19	20	21	22	23	24	25	26																P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	
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M	R	P1	P2	P3	:																																																																														
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1	2	3	4	5	6	7	8	9	10	11	12	13																																																																							
M	R	P1	P2	P3	:																																																																														
14	15	16	17	18	19	20	21	22	23	24	25	26																																																																							
Description	<p>(1) All parameters are set to OFF when the memory channel is vacant.</p> <p>(2) * This command is not applicable to "KENWOOD" versions of the TS-811E/711E.</p>																																																																																		

MS MEMORY SCAN

Applicable model		TS-940S													Parameter	Format	Parameter function								
Function	Memory scan ON/OFF and display															P1	1	MEMORY SCAN ON/OFF							
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13	M	S	P1	:							
		14	15	16	17	18	19	20	21	22	23	24	25	26											
Output commands	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13	M	S	:								
		14	15	16	17	18	19	20	21	22	23	24	25	26											
Description	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13	M	S	P1	:							
		14	15	16	17	18	19	20	21	22	23	24	25	26											
		27	28	29	30	31	32	33	34	35	36	37	38	39											

MW MEMORY WRITE

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function
Function	Memory entry													P1	9	SPLIT SPECIFICATION	
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13	P2	8	MEMORY BANK
		M	W	P1	P2	P3		P4		P5	P6	P7	P8	P9	P3	7	MEMORY CHANNEL
Input commands	Read command	14	15	16	17	18	19	20	21	22	23	24	25	26	P4	4	FREQUENCY
															P5	2	MODE
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13	P6	9	MEMORY LOCKOUT (TS-811A/811B/811E/ 711A/711E only)
		14	15	16	17	18	19	20	21	22	23	24	25	26	P7	1	TONE ON/OFF (TS-811A/811B/811E/ 711A/711E only)*
Description															P8	14	TONE FREQUENCY (TS-811A/811B/711A only)
															P9	13	OFF SET (TS-811A/811B/811E/ 711A/711E only)
<p>(1) The MW command is valid when all parameters have been correctly entered.</p> <p>(2) When all effective frequency columns are "0", the memory is set to an open channel.</p> <p>(3) When the split channel of the TS-811A/811B/811E/711A/711E is open, the transceiver will be set for the same transmit and receive frequencies, i.e. simplex.</p> <p>(4) * This command is not applicable to "KENWOOD" versions of the TS-811E/711E.</p>																	

OS OFFSET

Applicable models		TS-811A/811B/811E/711A/711E													Parameter	Format	Parameter function										
Description	Function	OFFSET setting													P1	13	OFFSET										
Output commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13	O	S	P1	:									
	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13													
	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13													
		14	15	16	17	18	19	20	21	22	23	24	25	26													
		27	28	29	30	31	32	33	34	35	36	37	38	39													

RC

RIT CLEAR

RD

RU

RIT DOWN/RIT UP

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																																																																										
Description	Function																																																																																																																																										
	RIT frequency UP/DOWN																																																																																																																																										
	Input commands																																																																																																																																										
	Set command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R</td><td>D</td><td></td><td></td><td>;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R</td><td>U</td><td></td><td></td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																										1	2	3	4	5	6	7	8	9	10	11	12	13																R	D			;																							R	U			:																							14	15	16	17	18	19	20	21	22	23	24	25	26																	
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	Output commands	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																											1	2	3	4	5	6	7	8	9	10	11	12	13																																																																								14	15	16	17	18	19	20	21	22	23	24	25	26														
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RT

RIT

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																																																							
Function	RIT ON/OFF setting																P1	1	RIT ON/OFF																																																																																																					
Input commands		<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>R</td><td>T</td><td>P1</td><td>:</td><td> </td><td> </td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>																	1	2	3	4	5	6	7	8	9	10	11	12	13					R	T	P1	:														14	15	16	17	18	19	20	21	22	23	24	25	26																																																							
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Description																																																																																																																								

RX**TX**

RX/TX

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																					
Description	Function																																																																					
RX/TX	Set command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>R</td><td>X</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>T</td><td>X</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13	R	X	:											T	X	:											14	15	16	17	18	19	20	21	22	23	24	25	26				
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Answer command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																															
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SC SCAN

SH

SL

SLOPE TUNE HIGH/SLOPE TUNE LOW

Applicable model	TS-940S													Parameter	Format	Parameter function	
Function	Slope tune band setting and readout.													P1	12	PASSBAND	
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		S H															
		S L															
		:															
		14	15	16	17	18	19	20	21	22	23	24	25	26			
Input commands	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		S H															
		S L															
		:															
		14	15	16	17	18	19	20	21	22	23	24	25	26			
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		S H															
		S L															
		:															
		14	15	16	17	18	19	20	21	22	23	24	25	26			
		27	28	29	30	31	32	33	34	35	36	37	38	39			
Description	The execution of this command will disable the transceivers associated front panel controls.																

SP SPLIT

Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																														
Function	SPLIT ON/OFF setting													P1	1	SPLIT ON/OFF																																																																															
Input commands	Set command	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr><tr><td>S</td><td> </td><td>P</td><td>P1</td><td> </td><td>;</td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr><tr><td> </td><td> </td></tr></table>													1	2	3	4	5	6	7	8	9	10	11	12	13	S		P	P1		;								14	15	16	17	18	19	20	21	22	23	24	25	26																																										
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Output commands	Read command	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr><tr><td> </td><td> </td></tr><tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr><tr><td> </td><td> </td></tr></table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26																																										
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Description	Answer command	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr><tr><td> </td><td> </td></tr><tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr><tr><td> </td><td> </td></tr><tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td></tr><tr><td> </td><td> </td></tr></table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26														27	28	29	30	31	32	33	34	35	36	37	38	39																
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ST STEP

Applicable models		TS-811A/811B/811E/711A/711E													Parameter	Format	Parameter function														
Function	STEP ON/OFF setting															P1	1	STEP ON/OFF													
Input commands	Set command																														
	Read command																														
Output commands	Answer command																														
Description																															

TN TONE NUMBER

Applicable models		TS-811A/811B/711A													Parameter	Format	Parameter function												
Description	Function	Sub-tone frequency setting													P1	14	TONE FREQUENCY												
Description	Input commands	Set command																											
	Read command		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
	Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
			27	28	29	30	31	32	33	34	35	36	37	38	39														

TO TONE

* This command is not applicable to "KENWOOD" versions of the TS-811E/711E.

Applicable models		TS-811A/811B/811E/711A/711E*													Parameter	Format	Parameter function																																																																														
Description	Function	TONE ON/OFF setting													P1	14	TONE ON/OFF																																																																														
	Set command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>T</td><td>O</td><td>P1</td><td>;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13	T	O	P1	;										14	15	16	17	18	19	20	21	22	23	24	25	26																																										
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	Input commands	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26																																										
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	Read command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26																																										
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	Output commands	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26														27	28	29	30	31	32	33	34	35	36	37	38	39																
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	Answer command																																																																																														

Applicable model		TS-940S													Parameter	Format	Parameter function								
Function	VBT passband setting and display															P1	12	PASSBAND							
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13	V	B	P1	;							
	Read command	14	15	16	17	18	19	20	21	22	23	24	25	26											
Output commands	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13	V	B		;							
	Answer command	14	15	16	17	18	19	20	21	22	23	24	25	26											
Description	The execution of this command disables the transceivers associated front panel controls.																								

VR VOICE RECALL

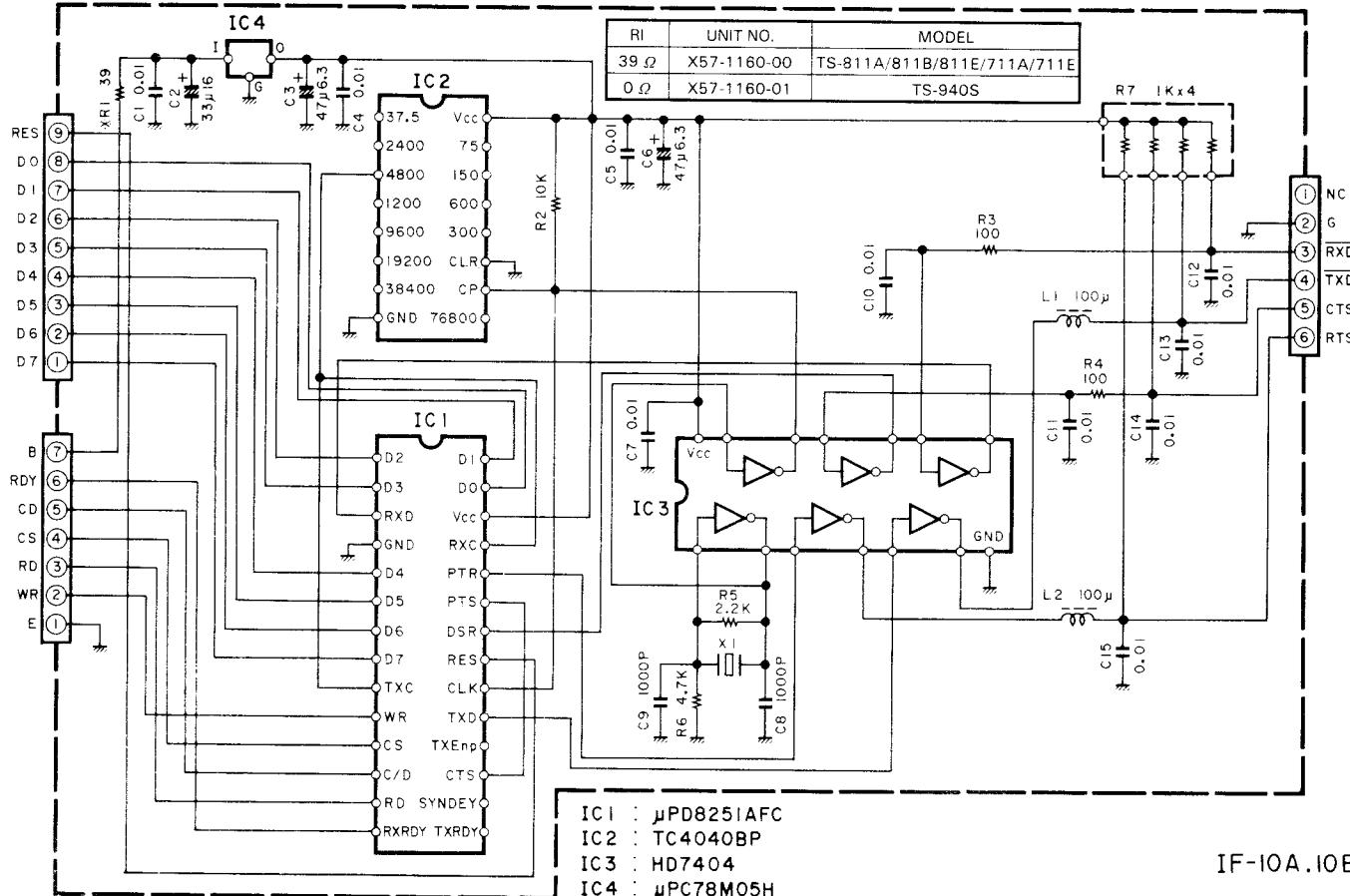
Applicable models		TS-940S/811A/811B/811E/711A/711E													Parameter	Format	Parameter function																																																																															
Function	Generation of synthesized voice.																																																																																															
Input commands	Set command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>V</td><td>R</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13	V	R	:											14	15	16	17	18	19	20	21	22	23	24	25	26																																											
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Input commands	Read command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26																																											
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Output commands	Answer command	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													1	2	3	4	5	6	7	8	9	10	11	12	13														14	15	16	17	18	19	20	21	22	23	24	25	26														27	28	29	30	31	32	33	34	35	36	37	38	39																	
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Description																																																																																																

XT XIT

Applicable model		TS-940S													Parameter	Format	Parameter function
Function	XIT ON/OFF setting													P1	1	XIT ON/OFF	
Input commands	Set command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		X	T	P1	:												
		14	15	16	17	18	19	20	21	22	23	24	25	26			
Output commands	Read command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		14	15	16	17	18	19	20	21	22	23	24	25	26			
Description	Answer command	1	2	3	4	5	6	7	8	9	10	11	12	13			
		14	15	16	17	18	19	20	21	22	23	24	25	26			
		27	28	29	30	31	32	33	34	35	36	37	38	39			

6. SCHEMATIC DIAGRAM

(X57-1160-00,01)



IF-10A.IOB

KENWOOD