

What appears to be equipment malfunction may not be damaging or difficult to solve. Check the following chart before making any adjustments or sending the transceiver to an Icom Service Center.

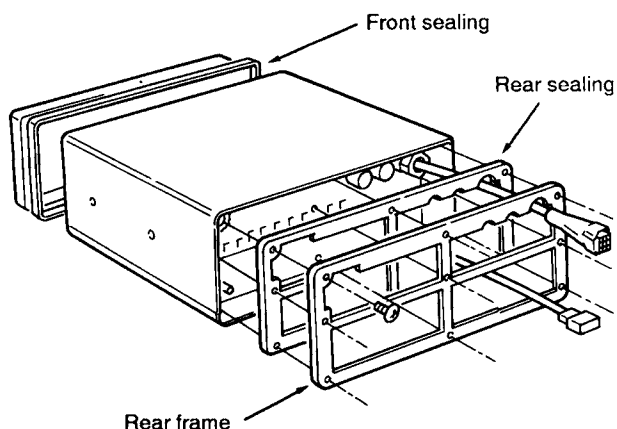
	PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
POWER	Power does not come ON when [POWER] is pushed.	<ul style="list-style-type: none"> Power cable is improperly connected. The DC power cable fuse or circuitry fuse is blown. 	<ul style="list-style-type: none"> Reconnect the cable securely. Find and repair the cause of the problem and then replace the damaged fuse with a new one. 	p. 16 p. 22
	RECEIVE	No sound comes from the speaker.	<ul style="list-style-type: none"> The [SPEAKER] switch is turned OFF. Microphone is not connected. RF gain is set too deeply and several segments of the S-meter appear. The squelch is closed. 	<ul style="list-style-type: none"> Turn ON the [SPEAKER] switch. Connect the microphone to the [MICROPHONE] connector. Push [FUNC], then [RX] to reset the RF gain. (RF GAIN 9 applies audio.) Adjust the squelch to proper level or push [SQL] to turn it OFF to receive weak signals.
Sensitivity is too low and only strong signals are audible.		<ul style="list-style-type: none"> Antenna is not properly matched to the operating frequency. RF gain is set too deeply. Wrong tuner condition is selected in the set mode. 	<ul style="list-style-type: none"> Push [TUNE] to tune the using antenna tuner or select "automatic tuning" in the set mode when using an optional AT-130. Push [FUNC], then [RX] to reset the RF gain. Set the proper tuner for the connected tuner. 	p. 13 p. 10 p. 13
The received audio is unclear or distorted.		<ul style="list-style-type: none"> Wrong operating mode is selected. AGC is deactivated while receiving a strong signal. Noise blanker is turned ON when receiving a strong signal. The [CLARITY] control is rotated too far clockwise or counterclockwise. 	<ul style="list-style-type: none"> Push [MODE] to select the proper operating mode. Push [AGC] to activate the AGC function. Push [NB] to turn the noise blanker OFF. Adjust the [CLARITY] control to receive proper audio output. 	p. 9 p. 10 p. 10
TRANSMIT	Your signal does not reach as far away as usual.	<ul style="list-style-type: none"> The transmit power is set low. The antenna tuner is improperly matched to the operating frequency when manual tuning is selected. CW or FSK mode is selected for voice transmission. 	<ul style="list-style-type: none"> Push [FUNC], then [TX] to reset the transmit power. (RF-PWR 3 is maximum power.) Push [TUNE] to tune the using antenna tuner, or select "automatic tuning" in the set mode. Push [MODE] to select USB mode (or AM, R3E, etc.). 	p. 9 p. 9 or p. 13 p. 9
	Transmit signal is unclear or distorted.	<ul style="list-style-type: none"> The wrong operation mode is selected. Microphone is too close to your mouth. 	<ul style="list-style-type: none"> Push [MODE] to select the proper operating mode. Speak into the microphone naturally and do not hold the microphone too close to your mouth. 	p. 9 –
	No contact is possible with another station.	<ul style="list-style-type: none"> Wrong transmit frequency is set. 	<ul style="list-style-type: none"> Push [TX FREQ] to check and store the correct transmit frequency. 	p. 9
DISPLAY	Frequency cannot be set via the keypad.	<ul style="list-style-type: none"> The [CE] key is not pushed ("▶" does not appear) before digit entry. 2182 kHz is selected with the [2182KHz] switch. 	<ul style="list-style-type: none"> Push [CE] ("▶" appears), then enter the desired frequency. Push [2182KHz], then set the frequency. 	p. 8 p. 6
	All indicators appear and the channel number cannot be read.	<ul style="list-style-type: none"> The highest contrast is selected in the set mode. 	<ul style="list-style-type: none"> Set to the proper display contrast. 	p. 15
	FSK ITU channels cannot be selected.	<ul style="list-style-type: none"> SITOR operation is set to OFF in the set mode. 	<ul style="list-style-type: none"> Set "SITOR" to ON in the set mode. 	p. 13

■ Installing options

◇ Opening the case

Follow the case and cover opening procedures shown here when you want to install an option or adjust a setting for non-Icom tuner control.

- ① Remove 9 screws from the rear panel, then remove the rear frame and rear sealing.
- ② Remove the transceiver's case as shown at right.
- ③ When reassembling the cover, check the following points:
 - Internal fan and slits in the case are on the same side.
 - Mate the front sealing correctly.
 - Attach the rear sealing in the correct direction.
 - Tighten the screws to their previous positions.

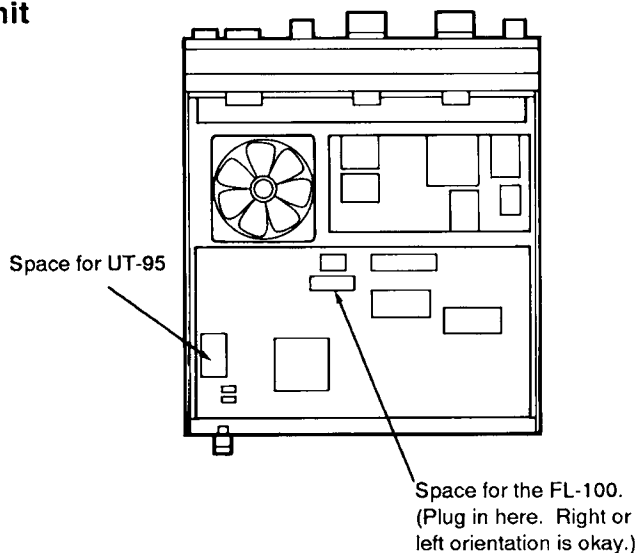


◇ Installing an optional filter and alarm unit

After opening the case as above, install the desired option to the position as at right.

These options are available (or already built-in) for the following versions:

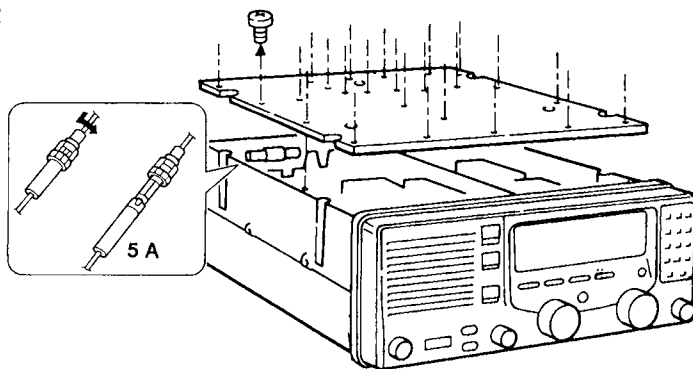
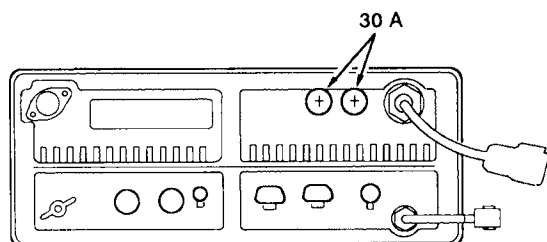
Version	GMDSS	Marine	General
FL-100 CW/FSK narrow filter	different filter built-in	optional	optional
UT-95 2-tone alarm unit	built-in	built-in	optional



After installing the 2-tone alarm unit into a General version, remove the plastic cover on the [ALARM] switch to use the switch.

■ Fuse replacement

The transceiver has 3 fuses to protect internal circuitry, 2 fuses for the fuse holder on the rear panel and 1 for inside. If the transceiver stops functioning, check the fuses below.

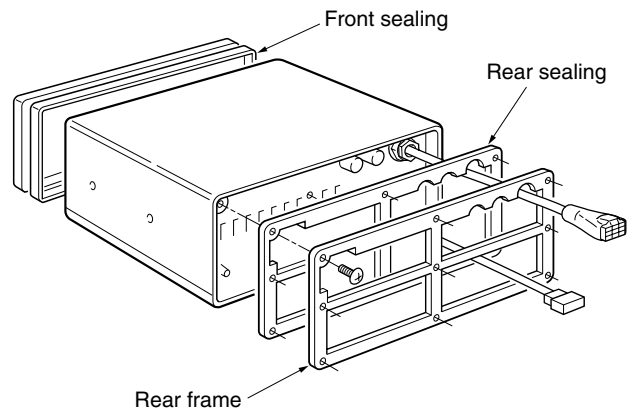


■ Installing the internal options

◇ Opening the case

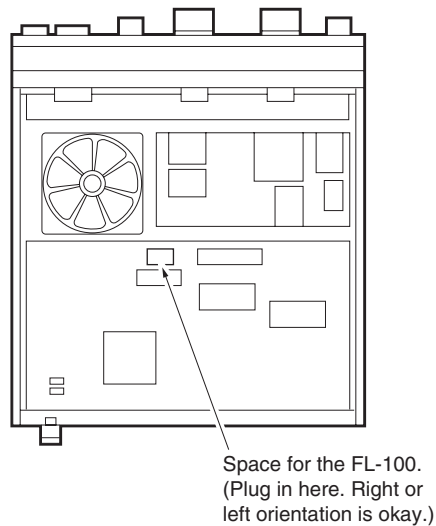
Follow the case and cover opening procedures shown here when you want to install an option or adjust a setting for non-Icom tuner control.

- ① Remove the 9 screws from the rear panel, then remove the rear frame and rear sealing.
- ② Remove the transceiver case.
- ③ When reassembling the transceiver, check the following points:
 - Internal fan and slits in the case are on the same side.
 - Front sealing is mated correctly.
 - Rear sealing is attached in the proper orientation.
 - Screws are tightened securely.



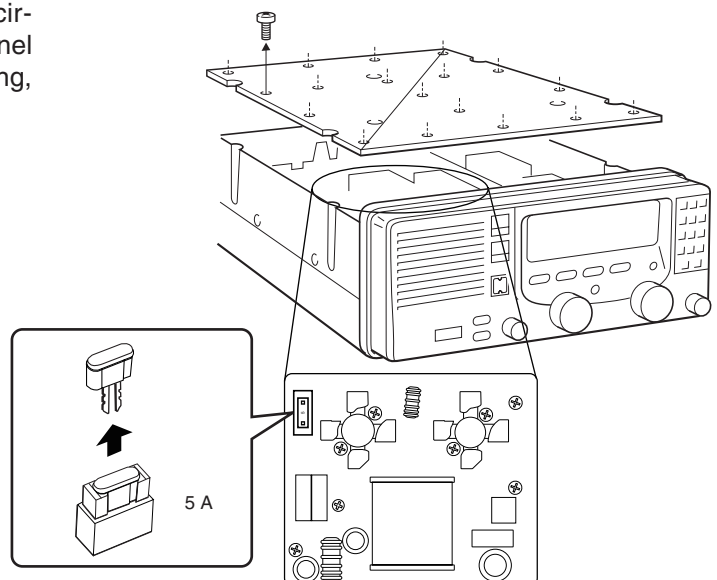
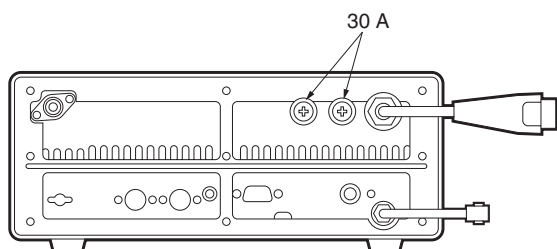
◇ Installing an optional filter

After opening the case as shown above, install the FL-100 CW/FSK NARROW FILTER to the position as shown at right.



■ Fuse replacement

The transceiver has 3 fuses to protect internal circuitry; 2 fuses for the fuse holder on the rear panel and 1 for inside. If the transceiver stops functioning, check the fuses below.

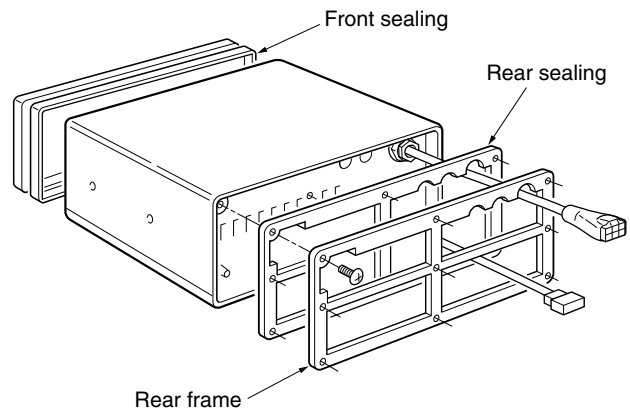


■ Disassembling the transceiver

◇ Opening the case

Follow the case and cover opening procedures shown here when you want to adjust a setting for non-Icom tuner control.

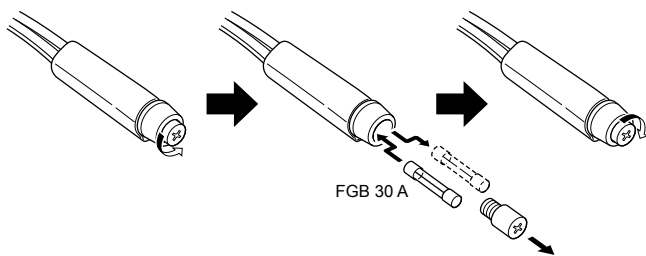
- ① Remove the 9 screws from the rear panel, then remove the rear frame and rear sealing.
- ② Remove the transceiver case.
- ③ When reassembling the transceiver, check the following points:
 - Internal fan and slits in the case are on the same side.
 - Front sealing is mated correctly.
 - Rear sealing is attached in the proper orientation.
 - Screws are tightened securely.



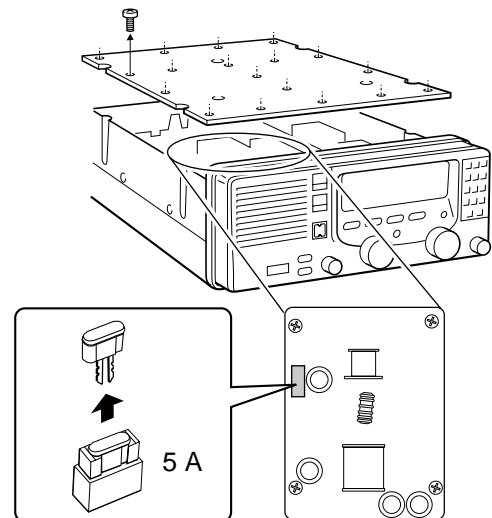
■ Fuse replacement

The fuses are installed in the DC power cable and the circuitry in the body, to protect the transceiver.

◇ DC power cable fuse

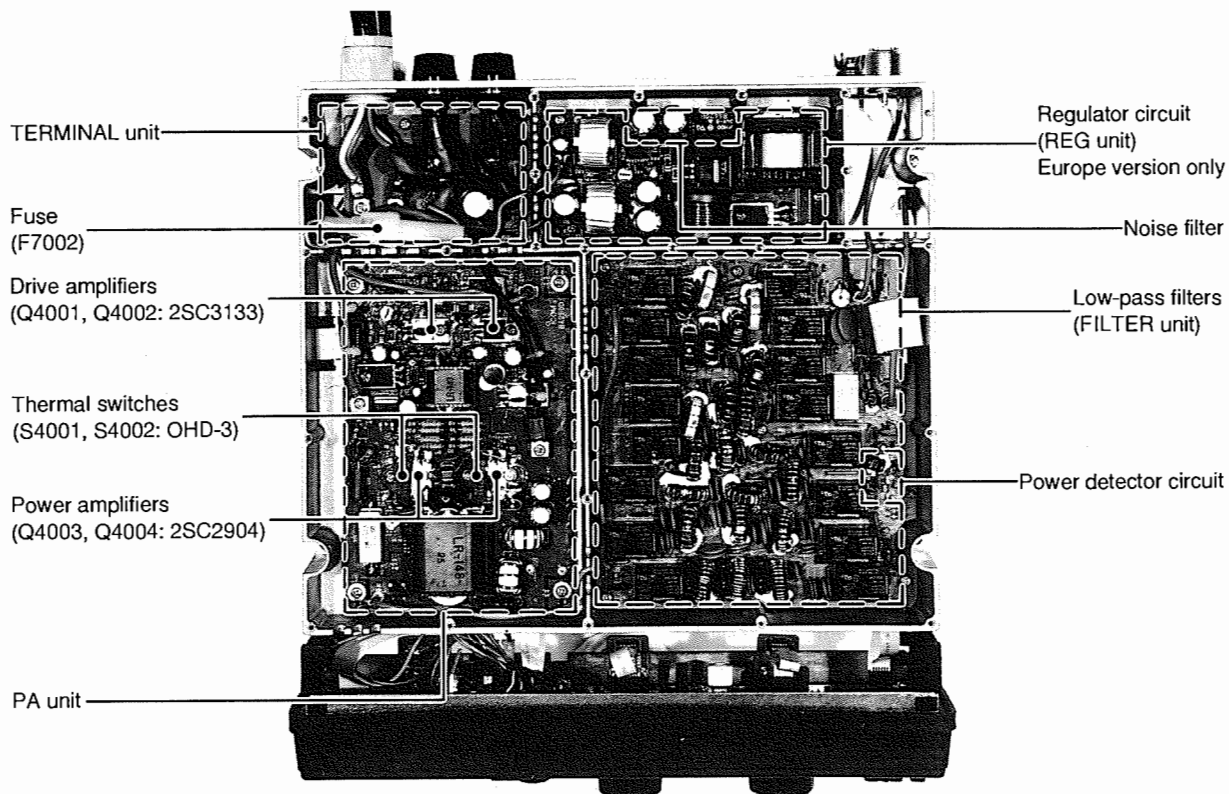


◇ Circuitry fuse

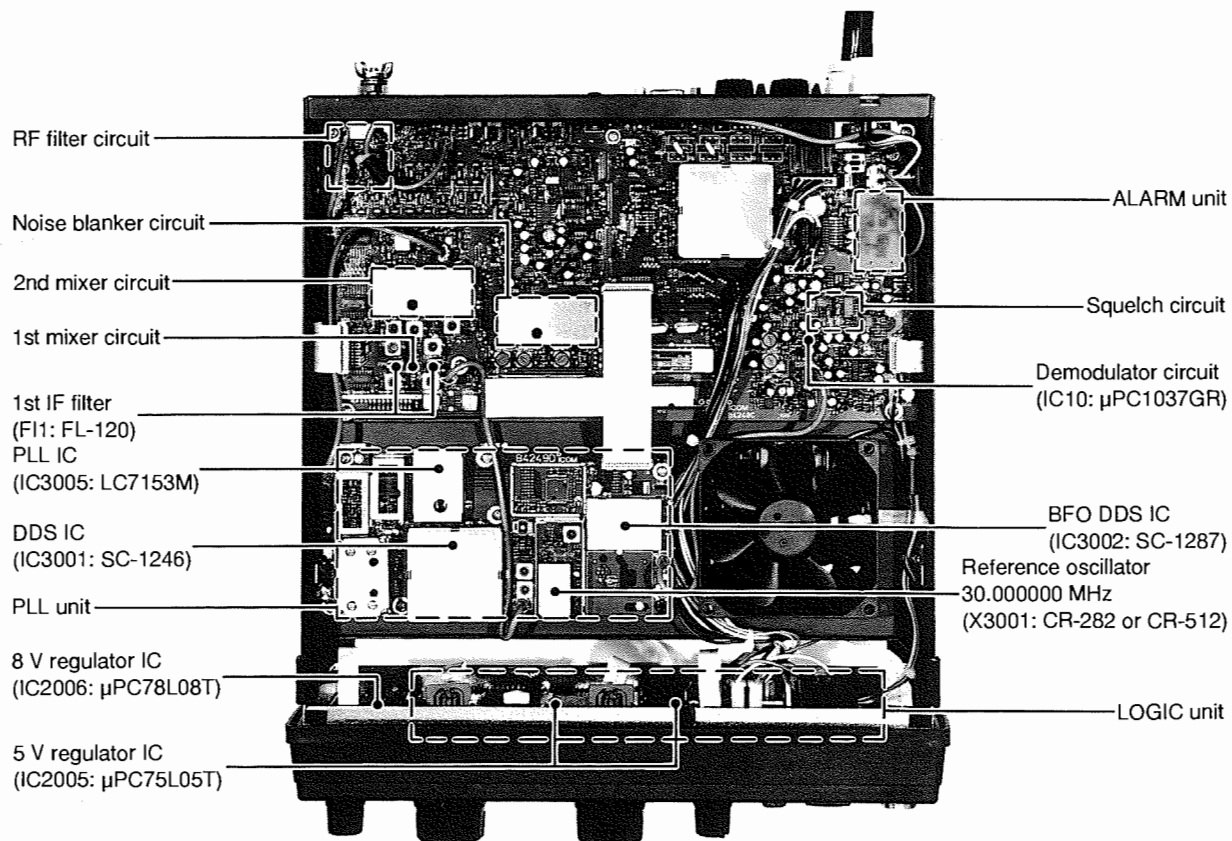


SECTION 2 INSIDE VIEWS

● PA, FILTER AND TERMINAL UNITS

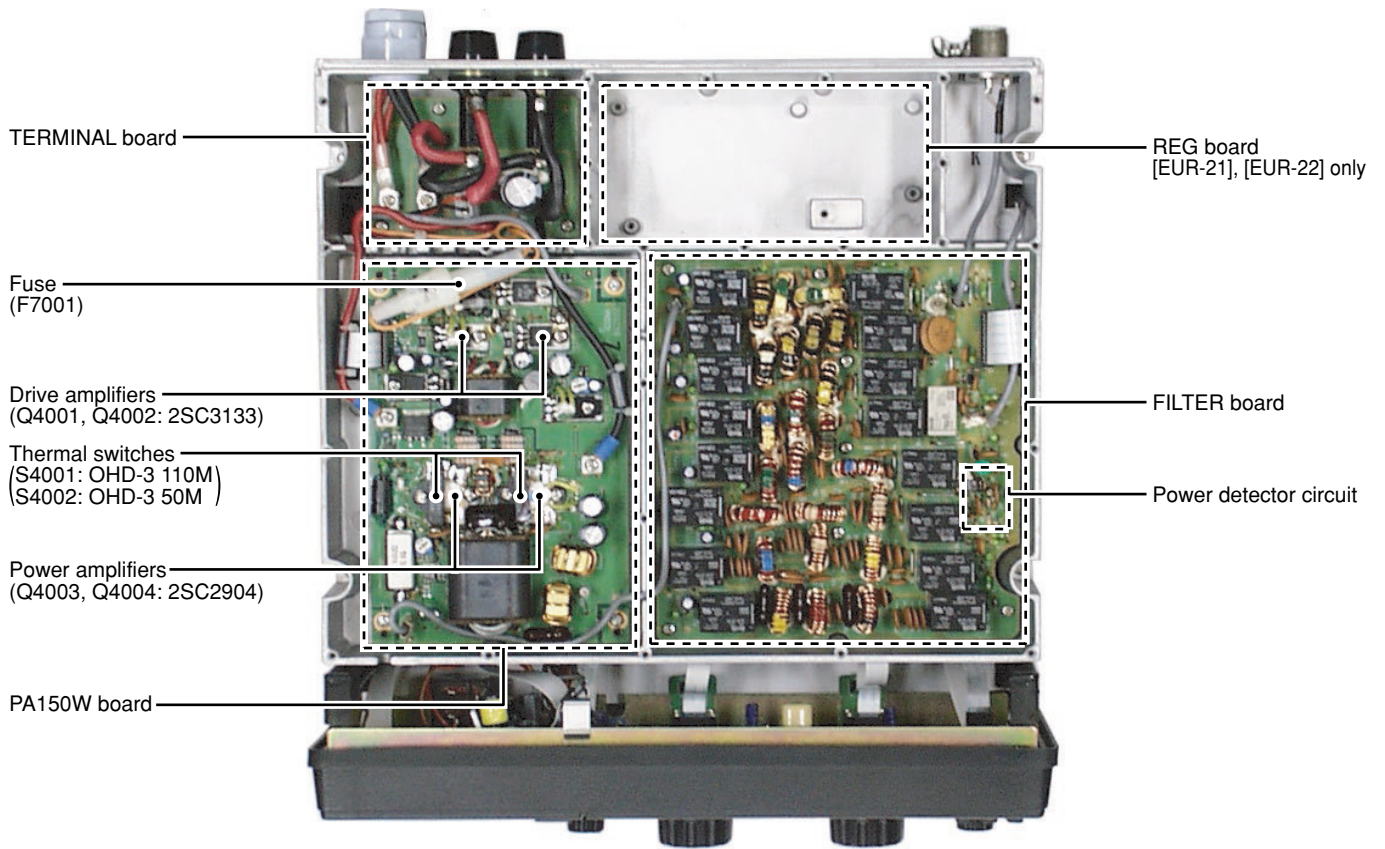


● MAIN, PLL AND LOGIC UNITS

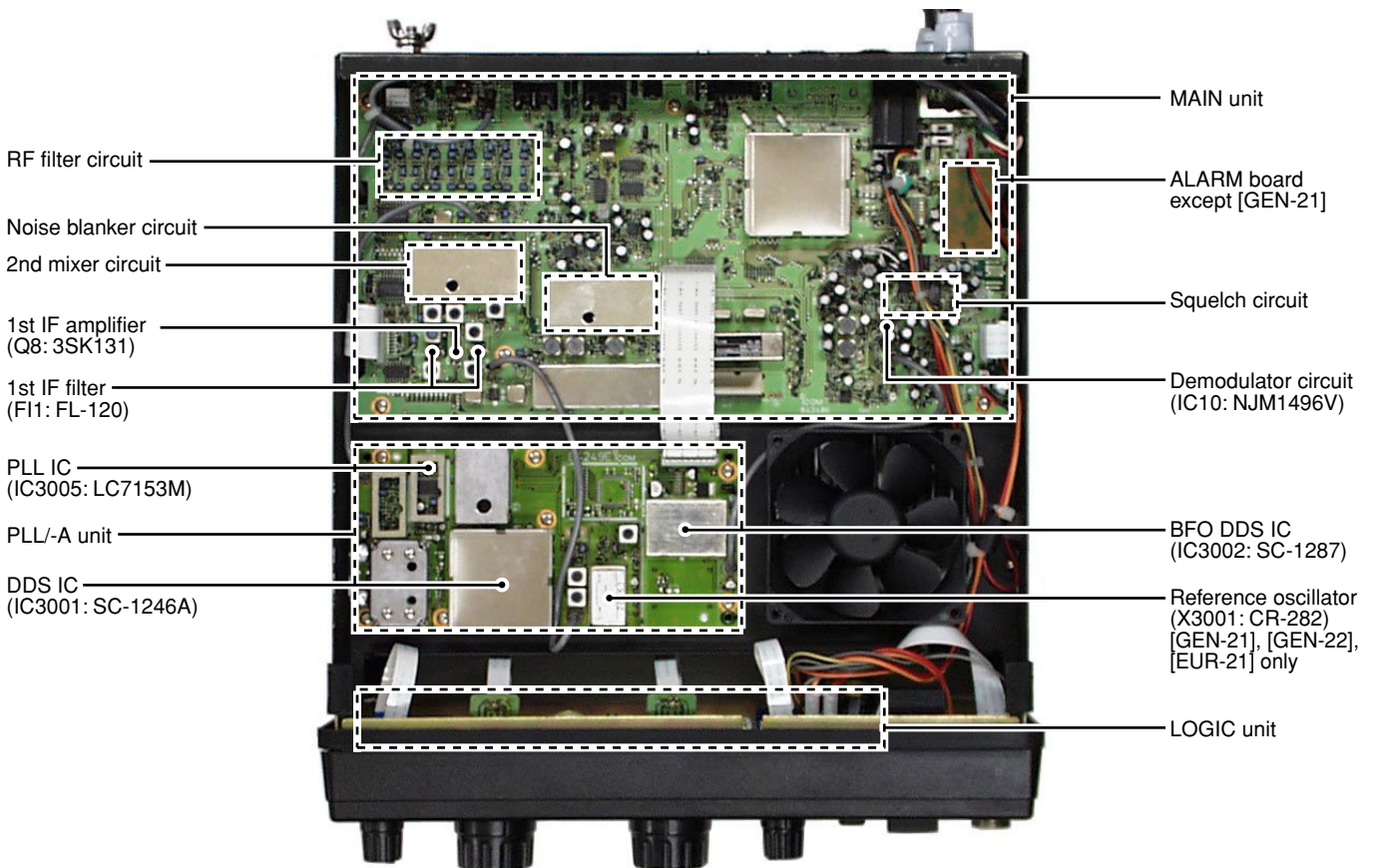


SECTION 2 INSIDE VIEWS

• PA150W, FILTER AND TERMINAL BOARDS



• MAIN, PLL AND LOGIC UNITS



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