

**INSTRUCTION SHEET
SX-59 PRESELECTOR**

SX-59 PRESELECTOR, when connected between antenna and transceiver (no modification required), will select weak radio wave buried among noises and, at the same time, remove image interference.



FEATURES:

1. Usable with every transceiver provided with a terminal for 'stand-by'.
2. Covers continuously 3-30MHz with 3 selective bands.
3. Easy to connect to transceiver (for 'stand-by' relay built-in).
4. RF gain control and RF attenuator (on-off function) in the antenna circuit will bring excellent effect against cross-modulation.
5. Protection circuit employed to prevent against mal-connections.

SPECIFICATIONS:

Frequency Range	: 3 bands ... 1) 3-7MHz 2) 7-14MHz 3) 14-30MHz	
Gain	: 20dB (@7MHz), continuously variable by RF gain	
Semiconductors	: 2SK-19x3 (cascade amplifier and source follower)	
RF Attenuator	: -20dB	
I/O Impedance	: 50 - 75 ohms	
Relay Withstand Input	: 100W (CW)	Stand-By Connection Cord ... 1
Power Source	: 100/117/220/240VAC, 50/60Hz	Instruction Sheet 1
Dimensions	: 150W X 67H X 146D m/m	

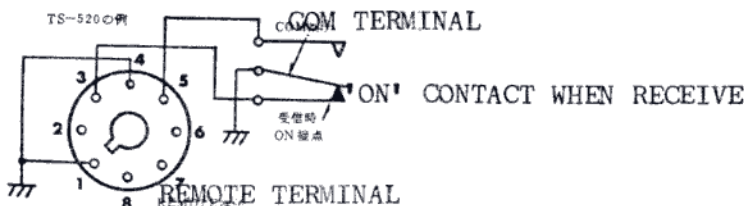
SX-59 CONNECTION

- o Prepare coaxial cable with M type connector.
- 1. Connect a coaxial cable between "TR" terminal on the SX-59 rear panel and antenna terminal of your transceiver.
- 2. Connect antenna to "ANT" terminal of SX-59.
- 3. Fasten 'stand-by' red connector cord with Y lug on to "REMOTE" red terminal and black cord with Y lug on to "REMOTE" black terminal provided on the rear panel of SX-59.
- 4. Connect the red tip of red cord to "ACC" terminal provided on the transceiver rear panel or an external 'stand-by' relay 'receive' side contact which is connected to "REMOTE" terminal of transceiver. (ref. fig. - 1)

Table - 1 Connection Method of SX-59 "TR" "REMOTE" Terminals To HF Transceivers

TRANSCEIVER	"TR" terminal	REMOTE terminal	
		RED	BLACK
TS-510	to antenna terminal	REMOTE terminal 3 rear panel	REMOTE terminal 4 rear panel
TS-520	"	"	"
TS-820	"	"	"
FT-200	"	ACC terminal 10 rear panel	ACC terminal 8 rear panel
FT-201	"	"	"
FT-401	"	"	"
FT-101	"	"	"

Fig. - 1



SX-59 OPERATION

1. 'STAND-BY' relay automatically changes over TX and RX after "REMOTE" terminal connections.
2. RF Attenuator switch, when turned to ATT, will reduce gain by -20DB. (effective in case of crossmodulation)

CAUTIONS

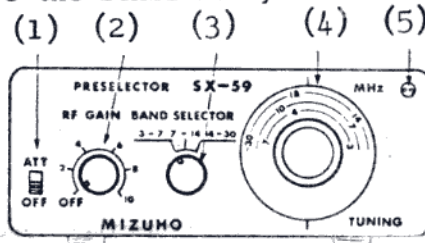
1. Be sure to do the "REMOTE" terminal wiring. Otherwise, the PRESELECTOR does not work because of always TX condition.
2. Be always careful not to do reverse or mal-connections, though protection circuit is included.

EXPLANATION OF FRONT PANEL CONTROLS AND REAR PANEL

FRONT PANEL CONTROLS:

The explanation itemized below corresponds to respective number of panel controls shown in the sketch.

1. Turn RF Attenuator switch to ATT and the gain will be reduced by -20DB.
2. Turn the RF gain knob clockwise to obtain the better sensitivity.
3. Set the required band by tuning the band-selective knob.
4. Adjust the tuning knob to the place where the sensitivity becomes best.
5. Switch "ON" and LED lamp lights.



REAR PANEL:

