

WESTFALIA TECHNICA

10 m Amateurband Transceiver Best.-Nr. 35 99 50

INSTRUCTION MANUAL

ALL MODE 10 METER 2-WAY TRANSCEIVER

SPECIFICATIONS

10 M AMATEURBAND-TRANSCEIVER AM/FM/SSR(160CH) 4W/4W/12W Best -Ne 35 99 50

TRANSMITTER SECTION RF POWER OUTFUT (13.8V DC) FM: 4 West Max. Alfr 4 West March

958 (Do to 12West PEP SSB (Up to 12Wett PEP. CR RAND :26,695 -27,405MH/(RX) MODELLATION CAPABILITY FM | 2.0 */* 0.2KHz AM : 90 +/- 5 % CCD- MAY 19W SSR: MAX 12W

RECEIVER SECTION SENSITIVITY of IOAR S+N/N PM : 0.54V AM : 10-V SQUELCH SENSITIVITY Threshold : 0.0s/V SET ECTIVITY 90 dB down at +10 KHz IF FREQUENCY 1st III:10 895A01s 2nd IF1455KH+ AUDIO OUTPUT 2.5 W Max, at 8 ohm load
CURRENT DRAIN 50 mA on standy (no stand) less than 1.5 A (Max. signal)

DIMENSION/GODDENO) 254----(III)---(III)----(III)----(III)

DC resoline emond system

DESCRIPTION

This transcriver is an all-solid state designed for either mobile or fixed operation. For fixed operation a 6 area, 15,670C regulated power supply will be required. De current drain is astronely low so operation over long periods of time, even with your cur regime off are possible.

RECEIVED

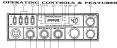
The receiver in a sensitive and highly relegible dual-conversion superhitmenture type. The drived incorporation an effective full time Automatic Noise Limiter in the saids stages. A consoic filter provides sharp relectivity. A variation spatial incorporated to "silence" the receiver when no signals are persent. The variable equich control provides waying degrees of sociality to received.

TRANSMITTER

The transmitter is crystal-controlled and provides 5 watts DC power input to the final BP stage. Righ level esolution is maintained through selection of low-loss component, computer grade pointed circuit benths and wiring harmaness.

POWER SUPPLY

The transactive is usedy for connection to a 12 volt DC, regarive or positive ground system. DC power is provide to the Transceiver by means of a fused power lead.



 VOLUME CONTROL WITH POWER SWITCH The volume central adjusts sound comput of the speaker. Turn the control clockwise to increase volume and counter clockwise to decrease volume.

The word 'special' means to idence. The central will eleminate unwanted hash or attrouberic naise which is present in di HFDigis frequency) hashes. To set aspetch progrept turn central very down't acknowle until the hashground noise dissposies. To discrepage, rotate central central

MICROPHONE GAIN CONTROL.
 This control provides the proper or desired modulation or PA audio level.

 RF GAIN CONTROL.
 This control is used to increase the sensitivity of the receiver so that distant

stations may be received more clearly, or to decrease the sensitivity so that very strong stations may be received more clearly.

5. CLARIPTER (FINE/ COARSE)

This central provides an adjustment for TUNING-IN stations which are slightly OFF frequency, to optimize the AM and SSB reception.

CHANNEL SELECTOR
 The Channel Selector sets the channel frequencies simultaneously for the
receiving and transaction makes.

7. BAND SWITCH

2 SOUTH OF CONTROL

Band A: 26.965 - 27.465MHz, Band B: 28.005 - 28.445MHz, Band C: 28.455 - 28.885MHz, Band D: 28.965 - 29.345MHz MODE CONTROL SWITCH
 This selector enables the operator to select the mode of operation, upper or lower sideband or AM or PM. The switch changes both the transmitter and the receiver.

MICROPHONE JACK
 This jack accordates the microphone connector, and is wired to provide
 recordate with the house connector.

10. PA/CB(TX) SWITCH This writch salects the mode of operation. When set in the CB(TX) position, the transcriver will function. In the PA position the ratio functions on a public affects switchen when used in conduction with an extraord PA possition.

NB & ANL ON/OFF SWITCH
 (Noise Blanker & Automatic Noise Limiter)
 Excessive electrical roise, ignition and other atmospheric disturbances will be

Exonsitive electrical roise, ignition and other atmospheric disturbances will be greatly reduced when this control is in the ON position. For normal conditions set the switch in the OFF position

12. RGR ON/OFF SWITCH (Reger Beep Tane)
This switch selects the reger beep mode.
Press the microphone switch and transmitteris activated. When set in the RGR position, the transmittery will been the mounted the microphone switch in

released for receiving.

13. ANL EAD LAMP

This yellow led laws will light when the ANL-OPF switch is set to pushed ANL coulden.

14. NB LED LAMP This green led lamp will light when the NR/OFF switch is set to pushed NB postdion.

16. RGR LED LAMP This red led lamp will light when the EGR/OFF switch is set to pushed BGR position.

16. AM MODE LED LAMP This yellow led lamp will light when the mode control switch is set to AM position.

77. FM MODE LED LAMP
This green led leave will light when the mode control awitch is set to FM

SSH MODE LED LAMP
 This red led lamp will light when the mode control switch in set to SSB(LSB or USB) position.

19. LED CHANNEL INDICATOR The number of selected channel will appear on this display pend.

 R.F. OUTPUT POWER LEVEL METER
 This meter shows transmitter power when transmitting and input signal strength when receiving.

ANTENNA CONNECTION
 To match antenna lead-in cable(RC SNU or RG-8U) with PL-239 type cauxial connector.

 PA SPEAKER JACK
 For Public Address(PA) operation, horn impedance should be in 8-16 thm range.

23. EXTERNAL SPEAKER JACK Impedance of any device such as leadphone connected to this jack should be 8 -16 obser, insertion of plog into jack automatically silences the transculver internal speaker.

24. DC POWER CONNECTOR 12 volts DC for transcriver supplied.



TRANSCEIVER INSTALLATION

MOUNTING: Always wount where centrals are madily accessible, Unit may be recorded to the underside of the dashboard of a car, track-sic, utilizing special bracket included with traceive. Attach bracket to the underside of the dashboard using the self-happing screws accelled. Attach the (mounted or the bracket size the two incired securities

Serious at the idea. Til the unit to the most convention angle before tightening serious serious. The convention of the power corels, it may be possible or With regards to the connection of the power corels, it may be possible or desirable to connect the red launtier sugarity ground systems of the black insuffer positive ground systems to the lighting excits accessive teembal as

and the red in a state of the same and the same and the red in the same and the red in the same and the red in the same and the same an

GNOUND INFORMATION:
Most never U.S. and foreignessed cars and small tracks use a negative ground
system, while some older cars and some never, larger tracks may use a positive

A regulive ground system is governity identified by the "-" buttery terminal being oversected to the vehicle notes block, but if you caused determine the polarity of your vehicle, consult your vehicle dealer for information.

NOTE: This radio may be installed and used in any 12-volt DC negative or positive ground system.

NEGATIVE GROUND SYSTEM:

NEGATIVE CROUND SYSTEM: By your despite, connect the red DC power to your or coparing or an anguive ground system, connect the red DC power cond from the only to the positive ** battery tecninol or other convenient point and connect the black power lead to the change or vehicle frame, or the registric ** terminal of the lottery.

POSITIVE GROUND SYSTEM:

If you are operating on a positive ground system, consect the black DC power count from the rade is the negative ""s luttery terminal or other convenient point and connect the rad power lead to the channin or vehicle frame, or the positive "s" terminal of the luttery.

ANTENNA CONNECTION:
The leed-in cable frees the CB natures must be terminated with a PL-229 type
rank converter. Attch to the matching enteness input connectes at the rear of the

MICROPHONE BRACKET: Attach the microphone bracket provided to any convenient bow

MICROPHONE CONNECTION: Insert the 4 oin olog at the end of the coded cord into the microphone socket.



DO NOT TRANSMIT WITHOUT AN ANTENNA CONNECTED TO THE TRANSCRIVER

IGNITION INTERFERENCE: Namely the suppression or modern automotive majors is adequate to prevent

armying interference to your CB transceiver. If it does not, consult your dealer who will recommend additional suppression measurements.

RECEIVING

Select desired charme using the Channel Selector Switch
 Botate "squatch" control to the extreme counter-clockwise position.

3. Rotate the "VOLUME/ON-GFF" switch clockwise, to apply power, Operation will be instantaneous.
4. Set the "VOLUME/ON-GFF" switch clockwise to a confertable intening level commission (1.0 settlem). The results in one made to assente

DOCK ADDRESS

SQUILLEH ADJUSTMENT!
The Sepachs content eliminates background noise when RF eignals are not present. To properly object to exactly notice the content above that the content above that the Additional solid off designation, and offenceurs. It is reasked if your action if no supervised that is not Additional solid offenceurs in the reasked it you act in foreign that is not above the reasked to content and the reasked to cont

EXTERNAL SPEAKER JACK:

Recommended plug for the EXT. SPEAKER Jack is a "MINIFLEG" submissioner
place plug. The impedance of ourplaces or speakers connected should be #.—
18 chms. Insertice of plug automatically different the transperies informal

SIGNAL STRENGTH LEVEL METER:
When receiving, the SORF POWER LEVEL METER provides a relative indication
of the signal strength in "S" units receiving a means of comparision between
one received signal and number.

TRSANSMITTING

S/TX POWER LEVEL METER-

To transmit, depress the pole-in-tolk butter on the microphase. The STA power LEVER MITTER indicates the endolve transmit power level. But the nitrophase like a integious squaling several inches from the face. Do not about Mitter and the state of the several inches from the face like a face of the several like the several like

In transmit position the S/TX POWER LEVEL METER gives a relative indication of auteora RF power.

USE AS PUBLIC ADDRESS SYSTEM

Provision has been made for Petitic Androut/PAI operation utilizing the interceptors and analis suppose to the transcrient, For PAI operation, one anouternal high-effercious; pattic actives here type speaker with an impotence range of R to III doings. Consect to the PAI axis on the own penal off the transcrience. The required play is a subministure phone play, For Public Address ONA operation, switch PAINISTON SWITCH to PAINISTON.

DATE A		CAND B		SAMD 2		EARD 0	
DH	FRED (MIL)	ю	FRED (NV)	DI	(No.)	191	7160 OHE)
1	26,965	1	28,005	- 1	28.455	- 1	28,905
2	25,975	2	28,015	2	28,465	2	28,915
8	23.900	3	28,025	3	28,475	3	25.955
	27.005		26.065		28.495	4	28.565
5	27.015	- 5	29,055	5	28,505	5	28,955
6	27,005		23,060		28,515	6	29,955
7	27.0%	7	28.025	2	28.525	7	28, 975
	27.005		29,095	8	29.545		29,995
,	23,065	9	25, 100	9	28,555	9	29.000
10	27,015	70	25, 115	10	25,560	10	73,613
11	27,985	71	28, 125	111	28.525	13	29,605
12	22, 125	12	29, 145	12	28,595	12	29,645
13	22,115	13	25, 755	13	28,605	13	29,655
N	22, 125	14	29, 165	14	28.675	14	29,005
15	27, 135	15	29, 175	15	29,625	15	29, 575
16	27, 155	16	23, 195	16	28.665	16	29,695
17	22, 165	17	28.225	17	25 895	13	29, 325
18	22,175	18	29, 215	18	28,965	18	29,115
19	27, 165	19	25,725	19	23.65	19	29.125
20	22,505	26	35,345	70	25,595	25	27,145
21	27,215	21	28, 255	21	28,705	21	29,155
22	77,225	22	29, 205	22	28,715	22	29,165
25	22.2%	23.	35,295	23	25,745	23	29 (95
24	27, 235	24	38.775	24	18.1%	24	29.175
3	27, 245	3	28, 285	25	29, 735	25	29,165
26	27,265	3	35,325	26	25,755	- 73	22,375
27	22,375	27	28, 315	27	28,765	27	29.215
28	27,780	28	26,125	28	28.TG	29	29, 225
25	27,299	3	35,335	29	25,700	23	29,735
30	27,305	30	28, 345	30	28,765	30	29, 245
30	27,315	31	20,700	21	29, 805	31	29,255
32	27,325	32	38,365	37	25.85	22	29,265
23	27,336	33	38,175	33	38,825	33	29, 275
24	27,345	26	20,365	34	28,825	31	29.285
35	27,255	75	25,295	35	25,945	70	29.250
×	27,365	36	28,405	36	28,855	36	29,365
27	27,375	31	20,415	37	28,865	33	29,715
38	27,385	38	28.425	36	20,175	38	29.325
39	27,295	39	25,435	75	20,985	35	29,325
40	27. e25				25,595		

CHANNEL FREQUENCIES CHART

