

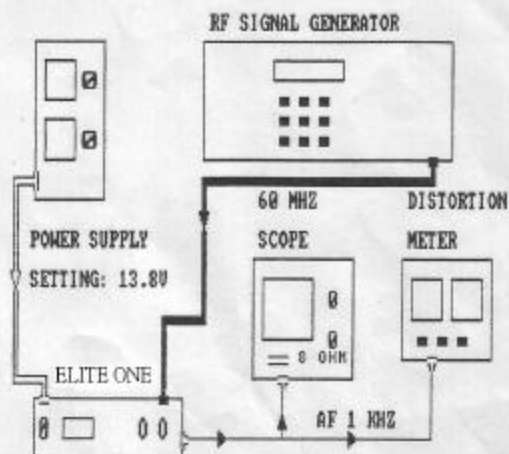
RX ADJUSTMENT SPECIFICATION

MODEL : SUNKER ELITE ONE

EQUIPMENT REQUIRE AS BELOW :-

- a) POWER SUPPLY (3 A).
- b) RF SIGNAL GENERATOR.
- c) DISTORTION METER.
- d) 60 MHZ SCOPE.+ 8 OHM LOAD RESISTOR.

EQUIPMENT SETTING UP AS BELOW :-



MESUREMENT DATA REQUIREMENT.

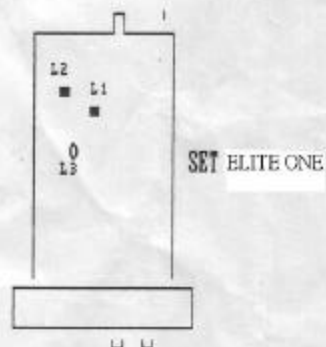
- a) RX SEN > 3 V
- b) S/N RATION > -40 DB
- c) SQUELCH FUNCTION THRESHOLD : 66 DB
TIGHT : 46 DB AT CH 28

LOCATION ADJUSTMENT

- ADJUST L1, L2 & L3.
- *READ AT DISTORTION METER *
- * CH 28 , VOL MAX & SQUELCH MIN *
- * CH 82
- * CH 39
- ADJUST RV3

*RF. SG. SETTING PARAMETERS.

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|-----------|---|----------------|-------|
| CHANNEL : | 1 | 26.9751 - 7db | CH 82 |
| | 2 | 27.2851 - 7db | CH 28 |
| | 3 | 27.3958 - 7db | CH 39 |
| | 4 | 27.2851 - 46db | CH 28 |
| | 5 | 27.2851 - 66db | CH 28 |

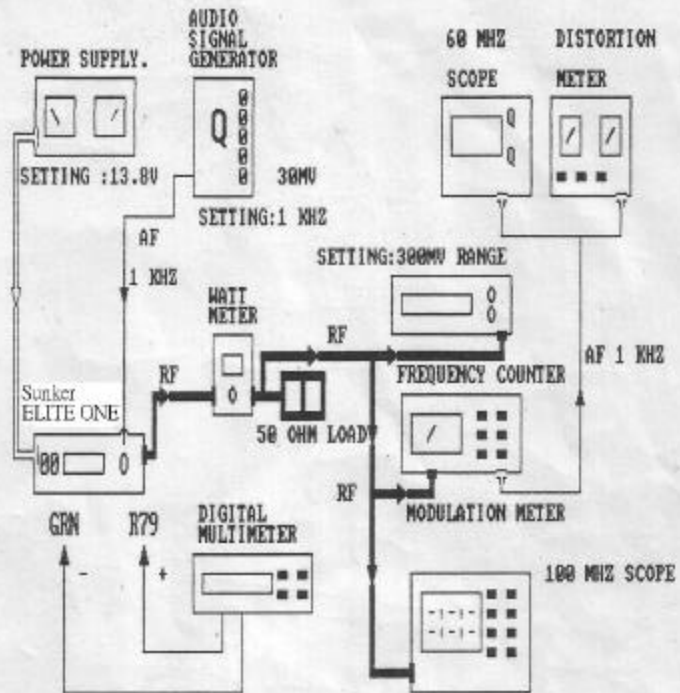


TX ADJUSTMENT SPECIFICATION.

MODEL : SUNKER ELITE ONE

EQUIPMENT REQUIRED AS BELOW :-

- a) POWER SUPPLY (3A).
- b) POWER METER/ WATT METER.
- c) MODULATION METER.
- d) DISTORTION METER.
- e) 60 MHZ SCOPE.
- f) FREQUENCY COUNTER.
- g) 100 MHZ SCOPE.
- h) 50 OHM LOAD.
- i) AUDIO SIGNAL GENERATOR.
- j) DIGITAL MULTIMETER.

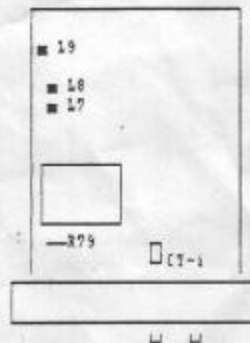


MEASUREMENT DATA REQUIREMENT.

- a) VCO VOLTAGE : 2.3 V /AT CHANNEL 1.
- b) TX POWER : 4 W +/- 0.25
- c) TX AM MODULATION : 9 %
- d) TX FREQUENCY : CH 01 =26.965 +/-300 MHZ
 CH 40 =27.405 +/-300 MHZ
 CH 19 =27.185 +/-300 MHZ

LOCATION ADJUSTING.

- ADJUST L6.*TAPPED FROM R79*
- ADJUST L7,L8 & L9.*CH1 & CH40.
- INPUT AF 1KH/30MV
- ADJUST CT-1.



TX ADJUSTMENT

1. FIXED POWER SUPPLY INTO SET, THEN FIXED ANTENNA CONNECTOR INTO ANTENNA JACK AND MICROPHONE CABLE INTO MIC JACK.
2. SWITCH ON SET AND SET CHANNEL SELECTOR TO CHANNEL 1. TAPPED WITH A DIGITAL VOLTMETER AT R79 WITH A READING OF 2.3 VOLTS THRU' ADJUSTMENT AT L6.
3. CHECK ON FREQUENCY COUNTER MUST BE SHOWING A READING OF 26.965MHZ +/- 0.002MHZ. IF NOT THEN ADJUST CT-1 TRIMMER CAPACITOR TO ATTAIN THE PARTICULAR FREQUENCY.
4. SET TO CHANNEL 40 AND MONITORING ON THE POWER METER. ADJUST L7,L8 AND L9 TO ATTAIN THE 4.2W READING IN THE POWER METER. THEN SET BACK TO CHANNEL 1, THE POWER METER SHOULD SHOW A READING OF 4.0-4.1W.
5. AT CHANNEL 1 SET TO TX MODE AND MONITOR ON AMPLITUDE METER SHOULD BE SHOWING AT LEAST 9% AND THE AMPLITUDE MODULATION MUST BE SHOWN IN THE OSCILLOSCOPE.

RX ADJUSTMENT

1. FIXED POWER SUPPLY ANTENNA JACK AND MIC JACK, AND SPEAKER JACK.
2. SWITCH ON SET AND CHANNEL SET TO CHANNEL 20. SET VOLUME TO MAXIMUM AND SQUELCH TO MINIMUM. SET RF SG TO CHANNEL *2 AND ADJUST L1,L2,AND L3 TO GET A READING ON THE A.D.M. (AUTOMATIC DISTORTION METER). THE READING SHOULD READ 3V*.
3. SET CHANNEL TO CHANNEL 2 AND RF SG TO CHANNEL *1. ADJUST VOLUME TO READ 3V ON THE A.D.M.
4. SET CHANNEL TO CHANNEL 39 AND ENSURE THE A.D.M. READS 3V SAME AS READING ON CHANNEL2.
5. SET CHANNEL TO CHANNEL 20 AND READING ON THE A.D.M MUST BE MORE THEN 3V.
6. SELECT INPUT RANGE ON A.D.M TO 3V AND ADJUST VOLUME TO READ 0 db AT THE A.D.M. THE PERCENTAGE ON THE A.D.M MUST READ MORE THEN 10%. SET VOLUME AND SQUELCH TO MAXIMUM AND SELECT RF SG TO CHANNEL *4. ADJUST RV3 TO GET PARTIAL SAWTOOTH AND PARTIAL SINE WAVE FORM. SELECT CHANNEL *5 ON THE RF SG FOR CUT OFF FUNCTION OF THE ABOVE WAVE FORM.

*RF SG SETTING PARAMETERS.
CHANNEL :--1 26.9751-7db
 2 27.2052-7db
 3 27.2952-7db
 4 27.2051-46db
 5 27.2051-66db

TX FULLY CHECK

1. FIXED POWER SUPPLY, ANTENNA JACK AND MIC JACK.
2. SWITCH ON SET AND SELECT CHANNEL 1. READING ON FREQUENCY METER READS 26.9650+/-0.002MHZ.
3. SELECT CHANNEL 40 AND FREQUENCY READ 27.405+/- 0.002MHZ.
4. SELECT CHANNEL 19 AND FREQUENCY READS 27.185+/- 0.002MHZ. ALL THE 3 CHANNELS SHOULD PROVIDE AT 4 WATT POWER OUTPUT.
5. SELECT TX MODE AT CHANNEL 1,40 AND 19 SHOULD PROVIDE A FULL SINE WAVE AM MODULATION AND READING ON THE A.D.M. MUST READS BETWEEN 8-10% .

RX FULLY CHECK

1. FIXED POWER SUPPLY, ANTENNA JACK, MIC JACK AN EXT SPEAKER JACK.
2. SWITCH ON SET AND SET TO CHANNEL *2 WITH RF SG TO CHANNEL *1. TURN ON RX MODE ADJUST VOLUME TO 0 db. THEN TURN OFF RX MODE AND A.D.M SHOULD READS LOWER THEN 10V (10 db).
3. SELECT CHANNEL 20 AND SET RF SG CHANNEL *2. TURN ON RX MODE TO 0db . THEN TURN OFF RX MODE AND A.D.M SHOULD READS LOWER THEN 10db. ADJUST VOLUME TO MAXIMUM AND AT RF SG, SELECT THE db GAIN TO 66 AND THE WAVE FORM SHOULD BE THE SAME AS ON CHANNEL*1. THEN SELECT RF SG db GAIN TO 46 TO HAVE THE WAVE FORM TOTALLY CUT OFF. SELECT THE RF SG BACK TO 66db ON THE 0db ON THE db GAIN. ADJUST VOLUME TO 0db AND OFF RX MODE. AT THE A.D.M, SELECT 30V RANGE, READING MUST READS NOT MORE THEN 0 db. SELECT 10V RANGE CFON THE A.D.M AND RF SG TO CHANNEL *3. ADJUST VOLUME TO MAXIMUM. SELECT TO CHANNEL 39 ON SET, THEN TURNON RX MODE AND ADJUST VOLUME TO 0db. TURN OFF RX MODE AND A.D.M READ LOWER THEN 10db.
4. TURN VOLUME TO MAXIMUM AND DISENGAGE THE EXT SPEAKER JACK TO MONITOR FOR THE SOUND QUANLITY.

*RF SG SETTING

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|--------------|-------------|
| CHANNEL - 1. | 26.9752-9db |
| 2. | 27.2050-9db |
| 3. | 27.3950-9db |
| 4. | 26.9750-7db |