

INPUT OF DEVIATION	BAND D	VR5	ADJUST FOR 2-3 KHz DEV.
METER TO ANT INPUT	CH.19 FM	*	*
INSERT 1KHz 30mV TO MIKE INPUT	XMIT	*	*
	*	*	*
INPUT OF WATTMETER TO ANTENNA INPUT	BAND D	VR8	AT 5 WATTS RF OUTPUT ADJUST SO RF PWR METER AGREES W/ WATT-METER
*	MIC GAIN	*	*
*	TO MIN. XMIT	*	*
*		*	*

IMPROVED 326-G GLEN COUNTER

F.J.BUCKLEY

THE MODIFICATION SHOWN IN VOLUME 5, PAGE 13, REQUIRED A GLEN PREAMPLIFIER. THIS AMPLIFIER IS NO LONGER AVAILABLE. THE MODIFICATION AS SHOWN WITHOUT USING THE AMPLIFIER WAS NOT SENSITIVE ENOUGH FOR LOW LEVEL SIGNALS. THIS MODIFICATION WILL PERMIT READING THE FREQUENCY OF A SINGLE TRANSISTOR OSCILATOR CIRCUIT.

PARTS NEEDED:

- 1 DPDT SWITCH
- 1 PHONO JACK
- 1 FOOT OF RG-174/U COAX CABLE
- 1 390pf CAPACITOR

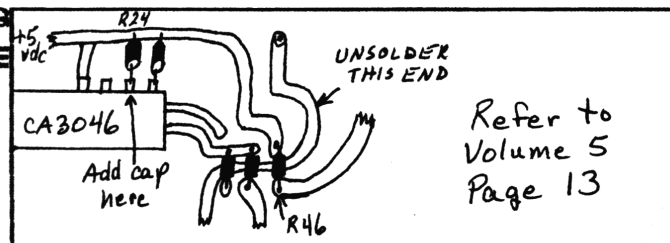


FIGURE 1. GLEN 326-G

BEFORE STARTING THE MODIFICATION, UNMODIFY, IF EARLIER MODIFICATION HAS BEEN MADE BY UNSOLDERING THE GREEN WIRE THAT RUNS FROM THE RF TAB ON THE TOP CIRCUIT BOARD TO THE OUTPUT JACK OR SWITCH, FROM THE OUTPUT JACK OR SWITCH. RESOLDER TO THE END OF THE GREEN WIRE CONNECTED TO TERMINAL 'L' OF THE LOWER BOARD. (DO NOT REMOVE THE WHITE WIRE FROM THE JACK.)

MODIFICATION STEPS

1. DRILL A HOLE SUITABLE FOR MOUNTING THE AUDIO JACK BETWEEN THE HEATSINK AND FREQUENCY SET COIL ON THE REAR OF THE CHASSIS.
2. REMOVE THE LOWER BOARD BY REMOVING TWO SCREWS AND UNPLUGGING.
3. REFER TO FIGURE 1. UNSOLDER AND REMOVE THE END OF R46 THAT IS ATTACHED TO THE B+ SUPPLY.
4. REMOVE WIRES FROM STANDBY/ON SWITCH AND REMOVE THE SWITCH.
5. SOLDER THE ENDS OF BOTH WIRES JUST REMOVED TOGETHER AND INSULATE.
6. LOCATE R24 AND SOLDER ONE END OF THE 390pf CAP TO THE TOP EXPOSED END OF THE RESISTOR.

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7. SOLDER THE OTHER LEAD OF THE 390pf CAP TO THE CENTER LEAD OF A 5" LENGTH OF RG-174/U.
8. SOLDER THE OTHER END OF THE COAX CENTER LEAD TO A BOTTOM N/C CONTACT OF THE DPDT SWITCH, WHEN MOUNTED AS VIEWED FROM THE BOTTOM OF THE CHASSIS. SOLDER THE SHIELD TO THE TOP OR N/O CONTACT, WHEN THE SWITCH IS IN THE STANDBY POSITION.
9. SOLDER THE CENTER OF THE REMAINING COAX TO THE CENTER TERMINAL OF THE AUDIO JACK AND THE SHIELD TO THE GROUND TERMINAL. SOLDER THE CENTER LEAD OF THE OTHER END TO THE COMMON OR CENTER TERMINAL OF THE SIDE OF THE SWITCH ALREADY USED. SOLDER THE SHIELD TO THE N/C OR TOP TERMINAL WITH THE OTHER SHIELD.
10. SOLDER A WIRE TO THE END OF RESISTOR R46 AS REMOVED FROM THE BOARD.
11. SOLDER THE END OF A WIRE IN THE HOLE WHERE R46 WAS REMOVED FROM.
12. SOLDER THE OTHER END OF THE WIRE, THAT YOU CONNECTED TO THE RESISTOR, TO THE CENTER OR COMMON TERMINAL OF THE SWITCH ON THE SIDE NOT YET USED.
13. SOLDER THE UNCONNECTED END OF THE WIRE CONNECTED TO THE PC BOARD, TO THE TOP OR N/C TERMINAL OF THE DPDT SWITCH WHEN IN STANDBY AS VIEWED FROM THE BOTTOM.
14. MOUNT THE SWITCH, REINSTALL THE BOARD, AND REASSEMBLE UNIT.

THE MODIFICATION IS NOW COMPLETE AND SENSITIVE ENOUGH TO CHECK CRYSTAL OSCILATOR CIRCUITS RIGHT AT THE CRYSTAL. (BUT NOT RECOMMENDED.)

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REFER TO SECRET CB VOLUME 20, PAGE 36.

PROCEED AS FOLLOWS; INJECT A 1Kc TONE VIA MIC.

TUNE/PEAK L11, L10, L9 (AFTER SLUG IS INSERTED), & L7. L8 IS NOT AJUSTABLE, IT IS A FIXED RF CHOKE.

FOR TALK-BACK; ADD A 100ohm RESISTOR AT PIN '5' OF THE MIC CONNECTOR INSIDE THE RADIO, AND A SHORT PIECE OF WIRE ON OTHER END TO THE CASE OF L4.

NOTE: RADIO OVERMODULATES EASILY. CHECK ON SCOPE AND ADJUST AS REQUIRED.

REALISTIC TRC-415 TUNE-UP

FINAL = 2SC2078

TUNE-UP: TRANSMIT, ADJUST L7, L8, L9, L10, L11, L12 (PEAK WITH 1Kc TONE); ALSO TRY SQUEEZING/SPREADING L13 AND RFC9.

RECEIVE, ADJUST L2, L3, L4, L5, RV1 = "S" METER LED'S, RV2 = RF METER LED'S, RV3 = SQUELCH RANGE, RV4 = MODULATION ADJUST.

RADIO TALKS GOOD WHEN PEAKED AND RV4 WIDE OPEN WITH JUST THE STOCK MIC! RECEIVER FILTER IS A CFU455H. EITHER DOUBLE OR BETTER YET, REPLACE WITH A CF*W*455H. (THERE'S NOT MUCH ROOM FOR ANYTHING ELSE. RADIO IS AN ITTY-BITTY