

GONSET COMMUNICATOR

PERTINENT DATA

6/115 volt 144-148.2 Mc. Model

(See page 12 for supplementary data on Deluxe Model II and Airport Unicom models.)

POWER INPUT:	6 volts d-c or 115 volts a-c 60 to 400 cycles using appropriate power cord. On 6 volts the black wire is ground. No polarity need be observed. For 12 volt operation use Carter 12 v. d-c to 115 v. a-c rotary converter, model B1015C.
POWER DRAIN:	6 volt drain is 15 amps on transmit, 9.8 amps on standby receive, and 6.6 amps on receive alone. On 115 volts a-c the maximum drain (transmit) is 1 amp.
CRYSTAL:	Fundamental type in 8.000 to 8.250 Mc. range. Multiplication factor 18. In an emergency, 6 Mc. crystals may be used with a slight loss in r-f drive. FT-243 type holder.
MICROPHONE:	Single button carbon (telephone type F2 or T-1 recommended) or a high output crystal or dynamic (Shure 505-C recommended for mobile work). Hot mike lead connects to ring of PL-68 plug. "Crystal-Carbon" mike switch must be thrown to corresponding position. Push-to-talk switch should be shorted out if it breaks mike circuit. Gain control ordinarily is run full on except for p-a use.
TUNE-UP:	Remove snap buttons and starting with eye switch on "Osc-Tripler" position, tune for maximum eye closure by means of indicated control, in counter-clockwise sequence, T/R switch on "Transmit", both power switches in "on" position.
CRYSTAL SPOTTER:	With T/R switch on "Receive", turn eye switch to "Osc-Tripler" position. This turns on transmitter oscillator to permit spotting on receiver dial. Always return eye switch to "Tune-Load" position before trying to transmit.
USE AS P-A SYSTEM:	Connect 4 to 8 ohm voice coil of good trumpet type speaker to phono connector on rear recess. Turn "Filaments" switch to "Receiver-PA" and the T/R switch to "Transmit". Adjust a-f gain control as required.
MATING CONNECTORS:	Type 83-1SP coax connector. Type PL-68 mike plug. Type 13A or M-93 Cinch "phono plug" p-a voice coil connector.
TUBE COMPLEMENT:	1-6CL6; 1-12AV7; 1-2E26; 1-6BQ7A; 1-12AT7; 2-6BH6; 1-6BJ6; 1-6T8; 1-12AX7; 1-6V6GT; 1-9006; 1-6E5; 2-6X4.
FUSES:	A-c fuses are 2 amp slo-blo type (in line plug). 6 volt fuse should be inserted in series with hot six volt lead. Replace with 20 amp. slo-blo type. (See schematic for variation.)
OTHER:	Dial lamps, Mazda No. 47. Vibrator, Mallory 294.

GENERAL

The Gonset COMMUNICATOR is a 2 meter AM transceiver designed for use on either 6.3 volts d-c or 115 volts a-c. The receiver has a noise figure of approximately 5.5 db, and the transmitter a power output of approximately 6 watts at nominal supply voltage. These figures will vary slightly with different 6BQ7A and 2E26 tubes.

POWER SOURCE

The power supply circuit is automatically changed from a-c to d-c and vice versa by jumpers in the two plugs. Fuses are 2 amp slo-blo type for 115 volt a-c operation (located in line plug) and 20-30 amp. for d-c operation. The drain on transmit with 6 volt supply is approximately 15 amps, and it is recommended that except for very short periods the vehicle engine