Collins
62S-1

gives you full
6 & 2 meter
operation
with only the
flip
of a switch

There's no cable change to make, either. The new Collins 62S-1 VHF Converter is a self-contained (using exciter's high voltage) unit and supplies a 3 to 5 db noise figure on receive...160 watts PEP input on transmit.

You can use this new Collins converter to cover 49.6 to 54.2 mc and 143.6 to 148.8 mc (crystals for amateur bands provided). Crystal switching from the front panel tuning knob provides a choice of any one of twenty-three 200 kc bands in the 6 and 2 meter range.

The 62S-1 is system engineered for the S/Line/KWM-2 and requires no additional power supply when used with this equipment. It offers you excellent cross mod rejection from simple narrow banding of front end for 200 kc tuning range, and gives easy, accurate readout and 1 kc calibration on VHF. Here's something else. The Collins 62S-1 will convert most equipment operating in the 14.0 to 14.2 mc range.

The 62S-1 weighs 25 lbs. and measures 6½" H, 13" W, and 14¾" D.
The Collins S/Line: System engineered to give you the cleanest signal on amateur bands

Collins famous S/Line is engineered on the systems concept. Each piece of equipment in the line augments the other. When you interconnect a Collins S/Line receiver and transmitter, you can operate them as a transceiver. A frequency control switch provides for separation of transmit and receive operation. Systems engineering like this is the reason why more and more advanced radio operators look to Collins for the finest in SSB/CW performance. The modern look of Collins S/Line equipment is something else you'll like. It's finished in gray tones. It has smooth, clean lines and the front panels are of dark gray simulated leather. A handsome rig in your ham shack, den or family room. Ask your distributor about trade-in value of Collins S/Line equipment — you'll realize how little it costs to operate the finest.
32S-3 Transmitter
The 32S-3 is an SSB or CW transmitter with
nominal output of 100 watts from 3.4 to 29.7 mc
(except 5.0 to 6.5 mc). Choice of thirteen 200 kc
bands covers all amateur bands except 10 meters,
where one 200 kc band crystal is supplied with
provision for two additional crystals.

The 32S-3 features mechanical filter sideband
generation, permeability-tuned VFO, crystal-con-
trolled HF oscillator, RF inverse feedback and
automatic lead control. The 32S-3 has grid block
keying, spotting control, keying hardness control
and sidetone level adjust.

The 32S-3 can operate transceive by using os-
cillator injection voltages supplied by the 75S-3B
or any of the 75S-( ) series receivers.

312B-4 Speaker Console
The 312B-4 provides a unitized control for the
S-Line or the KWM-2. It houses a speaker, RF
directional wattmeter with 200- and 2000-watt
scales, and switches for station control functions.

75S-3B Receiver
The 75S-3B provides SSB, CW and AM recep-
tion between 3.4 and 30 mc (except 5.0-6.5 mc)
by selection of the appropriate HF heterodyning
crystals. Crystals furnished cover HF amateur
bands except the 10 meter band, where one crys-
tal is supplied plus provision for two more.

Features incorporated in the 75S-3B include du-
all conversion with a crystal-controlled first hetero-
dyning oscillator; bandwidth filters (optional) se-
lected by a panel function switch; band-pass first
IF; stable permeability-tuned VFO; RF Amplifier
designed to minimize cross-modulation products;
2.1 kc Mechanical Filter; excellent AGC charac-
teristics; both product and diode detector; rejec-
tion notch filter; manual and crystal-controlled
BFO; and AGC time constant control. The ad-
vanced design of the 75S-3B includes the use of
only 150 volts on vacuum tube plates, use of sili-
con diodes in lieu of conventional high vacuum
rectifier; and the choice of two degrees of CW
selectivity (with optional plug-in filters). Provi-
sion for obtaining power from a dc power supply.

With the new Collins 75S-3B, you can be as-
sured of the finest amateur receiver available for
reception of the CW, SSB or RTTY modes.

30S-1 and 30L-1 Linear Amplifiers
The 30S-1 is a completely self-contained, single
tube, grounded grid linear amplifier. Requiring
70 to 100 watts driving power (from the 32S-3
or KWM-2), it provides the full legal power in-
put for SSB, CW or RTTY. The tube used is the
Elmac 4CX1000A. The 30S-1 may be used on
any frequency between 3.4 and 30 mc. A special
comparator tuning circuit allows tune-up at low
power to avoid exceeding the legal dc input of 1
kw. Push-button selection of linear amplifier or
crystal output from the front panel. Antenna re-
lay included. Conservatively rated.

The compact 30L-1 Linear (same size as the
KWM-2) provides for 1 kw PEP input on SSB
(500 watts average dc) and 1000 watts average
on CW, and has a self-contained power supply.
It is designed to be driven by Collins KWM-1,
KWM-2 or 32S-3, as well as from most other
70-100 watt CW/SSB excitors. The unit also
features RF inverse feedback; automatic lead
control; silicon rectifiers and a high/low power
switch. Instant warm-up time. Automatic anten-
a switching from exciter to amplifier included.

KWM-2 SSB Transceiver
This versatile transceiver serves both fixed
station and mobile needs on any fourteen 200 kc
bands between 3.4 and 30 mc (except 5.0 to 6.5
mc). Crystals are provided for all HF bands
except 10 meters where one crystal is supplied
with provision for two additional crystals.

It operates on 80 through 10 meters with 175
watts PEP input on SSB or 160 watts on CW.

Top features of the KWM-2 are filter-type
SSB generation, Collins permeability-tuned oscil-
lator, crystal-controlled HF double conversion
oscillator, VOX and anti-trip circuits, automatic
load control and RF inverse feedback.

Extended Frequency Versions Of S-Line
The 75S-3B is available in an extended fre-
cuency version, designated the 75S-3C. The re-
ciever differs from the original in that an addi-
tional crystal board has been added beneath the
chassis. In this board is placed the standard com-
plement of ham band crystals normally supplied
with the equipment. The upper board is available
for the placement of whatever additional crystals
may be desired up to a total of 14. A front panel
switch is added to allow switching between the
two crystal boards. The KWM-2A is the extend-
ed frequency version of the KWM-2A.
Collins S/Line and KWM-2 Accessories

302C-3 Directional Wattmeter — Measures forward and reflected power on 200- and 2000-watt scales with accuracy and without calibrating adjustments. Coupler unit mounts separately from indicator-control box. Power loss and mismatch introduced by the instrument are negligible. Fixed or mobile applications.

351R Table Mounts — For mounting the S/Line and KWM-2 and accessories on planes, boats, etc. May be fastened to any flat surface. Front clamps attach to the feet of the units to hold them securely.

351D-2 Mobile Mount — Provides secure mounting for KWM-2 in most automobiles. Cantilever arms fold out of the way when the unit is removed. Mating plugs connect power, receive-transmit antenna, noise blanker antenna, speaker and antenna control as KWM-2 slides into place. Power Supply Cable included.

DDL-1 Dummy Load — A 100-watt resistive load for all HF frequencies. Connects permanently in antenna coax line. Front panel or remote switch allows selection of “antenna” or “load.” Provides easy comparison of antenna SWR and non-band interference tune-up. Will absorb 30-L, 30-S-1 outputs for short periods. Choice of Type N or RCA antenna connectors.

312B-5 Speaker Console and External PTO — Used with the KWM-2 in fixed station operation to provide separation of receive and transmit frequencies, speaker, directional wattmeter, plus switching for functional control of system. Styled to match KWM-2.

136B-2 Noise Blanker — An accessory for the KWM-2 for mobile operation. This noise blanker provides effective reduction of impulse-type noise — particularly ignition noise. Requires separate antenna resonant at 40 mc. Properly installed, this 136B-2 can be the difference between operating and not operating when around other cars.

312B-3 Speaker — Contains a 5 1/2” x 7 1/2” speaker and connecting cable. Styled to match receiver, transmitter, 516F-2 AC Power Supply — Operates from 115 v ac, 50-60 cps. Provides all voltage for the 328-3 and KWM-2. Cabinet has provision for mounting a speaker styled to match the KWM-2.

MP-1 Mobile Power Supply — A transistorized inverter powered from a 12-v automobile, aircraft, or boat storage battery to the voltages required for operation of the KWM-1, KWM-2 or KWM-2A. Wiring cable is normally supplied with 351D-2.

440F-1 Cable — For use with MP-1 when the 351D-2 mount is not used. 20’ long with plug to match KWM-2 on one end; provision for solder lugs on opposite end.

PM-2 Portable Power Supply — The new PM-2 is compact, lightweight, and provides all voltages needed for the KWM-2. Connects easily and quickly to rear of KWM-2. Operates from either 115 v ac or 220 v ac at 50-400 cps to provide a completely portable SSB and CW station. Contains a small speaker. The PM-2 and KWM-2 may be carried in the CC-2 carrying case.

MM-1 Mobile Microphone — A dynamic microphone designed to fit comfortably in your hand. A 5’ length of coiled cord and attached FJ-068 is supplied with the 22-ounce microphone. For use with the KWM-2 or the S/Line. Push-to-talk switch. Hanger bracket furnished. Brushed aluminum finish.

SM-2 Boom Microphone — A high-impedance reluctance microphone/single earphone combination for fixed or mobile operation. PTT not required; operates with VOX control. Sponge-padded headband clamps head firmly but lightly. Microphone boom and ear pipe adjustable for proper fit. Cord and attached plugs furnished.

CC-2 Carrying Case — Specially designed Samsonite Silhouette case for the KWM-2/PM-2 or 30L-1. Attractive molded Royalite interior protects equipment against rough handling. Two spare pockets.


SM-2 Desk-Top Microphone — A high-impedance, dynamic mike with styling and output level to match S/Line and KWM-2. Gray and chrome finish.

351R-1 Rack Adapter — Matching gray rack panel with hardware for mounting 75S, 32S, KWM-2 or 30L-1. Supporting shelf holds unit securely.

351R-2 Rack Adapter — Matching gray rack panels with hardware for rack mounting S/Line and KWM-2 accessories, 516F-2, 312B-4 and 312B-5. Supporting shelf holds unit securely.

399B-4 Novice Adapter — Plugs into 32S to provide four crystal-controlled channels for novice operation of 32S. Crystals not furnished.

399B-5 Novice Adapter — Plugs into KWM-2 to provide four crystal-controlled channels on transmit. Receiver remains PTO tuned. Crystals not furnished.

Optional Filters — Plug-in filters for the 75S-3B provide bandwidths of 200, 500, 800 and 1300 cps for CW applications; 2.1 kc for SSB; and 3.1, 4.6 or 6.0 kc for AM reception.

For further information on the Collins S/Line and accessories, see your nearest authorized Collins distributor.

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