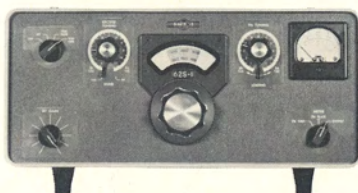
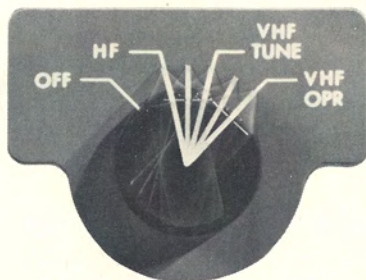




Collins 62S-1



**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



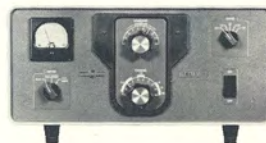
32S-3



75S-3B



30L-1



KWM-2



30S-1

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-controlled HF oscillator, RF inverse feedback and automatic load 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 oscillator 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 reception 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 crystal is supplied plus provision for two more.

Features incorporated in the 75S-3B include dual conversion with a crystal-controlled first heterodyning oscillator; *bandwidth filters (optional) selected 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 characteristics; both product and diode detector; rejection notch filter; manual and crystal-controlled BFO; and AGC time constant control. The advanced design of the 75S-3B includes the use of only 150 volts on vacuum tube plates, use of silicon diodes in lieu of conventional high vacuum rectifier; and the choice of two degrees of CW selectivity (with optional plug-in filters). Provision for obtaining power from a dc power supply.

With the new Collins 75S-3B, you can be assured 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 input for SSB, CW or RTTY. The tube used is the Eimac 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 exciter output from the front panel. Antenna relay 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 exciters. The unit also features RF inverse feedback; automatic load control; silicon rectifiers and a high/low power switch. Instant warm-up time. Automatic antenna 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 oscillator, 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 frequency version, designated the 75S-3C. The receiver differs from the original in that an additional crystal board has been added beneath the chassis. In this board is placed the standard complement 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 extended 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.

351E 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.

DL-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 30L-1, 30S-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" x 7" 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 32S-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.

440E-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 PJ-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.

MM-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 clasps 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-1 Desk-Top Microphone — A high-impedance, dynamic mike with styling and output level to match S/Line and KWM-2. Satin aluminum finish. Five-foot coiled cord and attached PJ-068 plug furnished.

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 1500 cps for CW applications; 2.1 kc for SSB; and 3.1, 4.0 or 6.0 kc for AM reception.

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

As advertised in 1966 issue of Radio Amateur Handbook