

TuneMatic

Automatic Motorized Antenna Controller

YAESU Y-1 INTERFACE (WITH KEYLINE) SUPPLEMENT

For YAESU: FT-857, FT-897, FT-891, FT-991
Rev. 04/26/20

This interface contains an additional keyline for ext. RF amp keying. This interface contains an ALC generator, with an adjustable range. User pre-sets the ALC voltage so that the rig is transmitting between 10-20 watts CW with the interface connected. This is the optimum power range for TuneMatic to operate.

To set this power setting (**WITH RIG OFF**):

Connect 3.5mm plug to rig ACC outlet & Connect mini-DIN plug to rig CAT/LINEAR port **ONLY!**

a) Connect rig to a known antenna tuned for lowest SWR, or to a dummy load. Apply power to rig.

*** When using this interface with the following radios, set menu item (TUNER SELECT) to "LAMP" setting: FT-991- item 141 or 143, FT-891 - item 16-15.**

b) The tune-up wire that is temporarily connected to the Interface keyline will be used to set the transmit power of the interface control.

c) After assuring rig is connected to a proper load, connect blue lead to negative DC power connection, or as shown in drawing. This will key the rig in CW mode at reduced power output. **DO NOT CONNECT ANY LEAD TO THE 12V CONNECTION, OR SHORT THIS LEAD TO GROUND, as it can blow the internal rig fuse!**

d) Adjust the ALC power set control inside the hole of the interface unit until rig transmit power is between 10-20 watts. Use the rig meter to measure forward power (approx. 10% of full-scale reading). **Clockwise** rotation of control **increases** power output of rig. Adjust to below 20w, but at least 10w. *The FT891/891 may only transmit 10w max, so the control may have to be set fully CW.*

e) Un-ground tune-up wire, turn off rig, and remove from connector. Turn off rig power.

f) Connect 4 pin PC power style connector to TuneMatic interface port. When TuneMatic keys, the rig will be transmit at the power you adjusted it to above.

g) The single green (or blue) wire is an amp keyline connection from pin 2 of mini-din plug, which will ground when PTT is enabled on rig. **Follow instructions supplied with rig and amplifier for proper connection of this line.**

