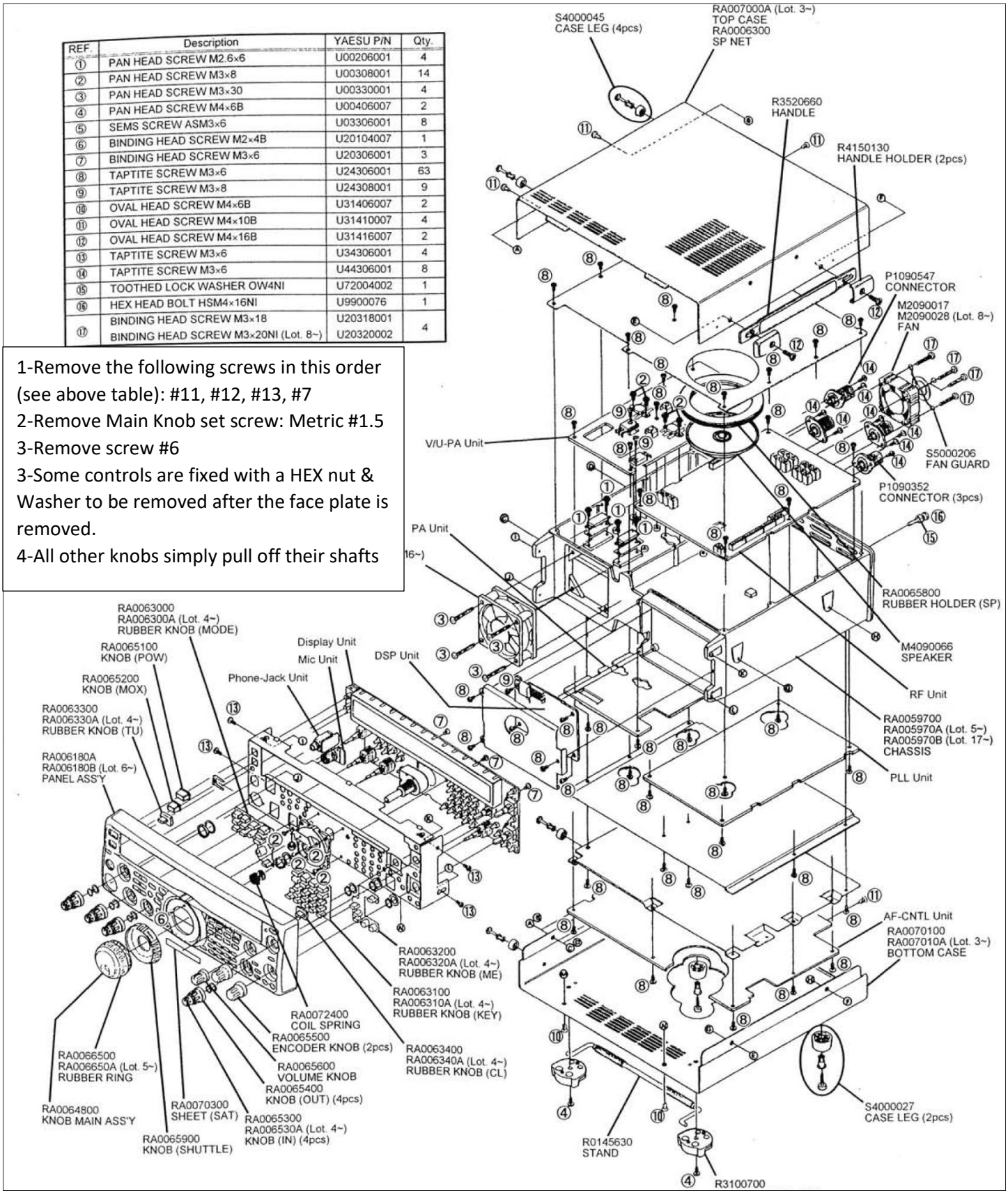
Yaesu FT-847 “MEM/VFO CH” Rotary Encoder Repair – February 15, 2024

REF.	Description	YAESU P/N	Qty.
①	PAN HEAD SCREW M2.6×6	U00206001	4
②	PAN HEAD SCREW M3×8	U00308001	14
③	PAN HEAD SCREW M3×30	U00330001	4
④	PAN HEAD SCREW M4×6B	U00406007	2
⑤	SEMS SCREW ASM3×6	U03306001	8
⑥	BINDING HEAD SCREW M2×4B	U20104007	1
⑦	BINDING HEAD SCREW M3×6	U20306001	3
⑧	TAPTITE SCREW M3×6	U24306001	63
⑨	TAPTITE SCREW M3×8	U24308001	9
⑩	OVAL HEAD SCREW M4×6B	U31406007	2
⑪	OVAL HEAD SCREW M4×10B	U31410007	4
⑫	OVAL HEAD SCREW M4×16B	U31416007	2
⑬	TAPTITE SCREW M3×6	U34306001	4
⑭	TAPTITE SCREW M3×6	U44306001	8
⑮	TOOTHED LOCK WASHER OW4NI	U72004002	1
⑯	HEX HEAD BOLT HSM4×16NI	U9900076	1
⑰	BINDING HEAD SCREW M3×18	U20318001	4
	BINDING HEAD SCREW M3×20NI (Lot. 8~)	U20320002	

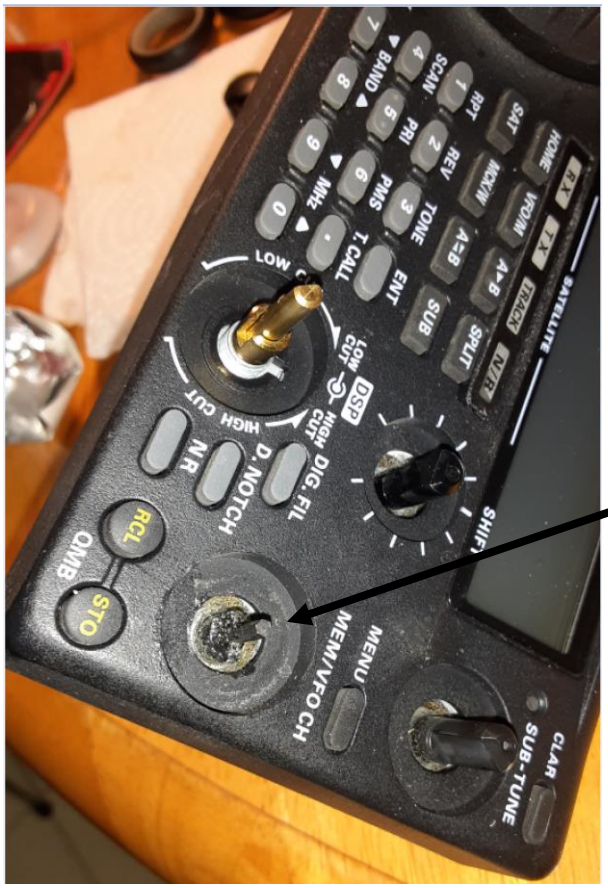
1-Remove the following screws in this order (see above table): #11, #12, #13, #7
2-Remove Main Knob set screw: Metric #1.5
3-Remove screw #6
3-Some controls are fixed with a HEX nut & Washer to be removed after the face plate is removed.
4-All other knobs simply pull off their shafts



First pull off all the knobs (except for the Main Knob). The main Knob can be removed with metric Allen Key #1.5 , then remove screw #6 which hold the face plate to the metal frame of the front panel.

Removing screws #11, #12 and #13 allows you to remove the top and bottom covers and rotate the front panel assembly as shown below. Now pry off the wiring connectors that attach the panel to the radio body. You will be able to get most of the connectors disconnected but not all. However you will be able to pivot the panel.

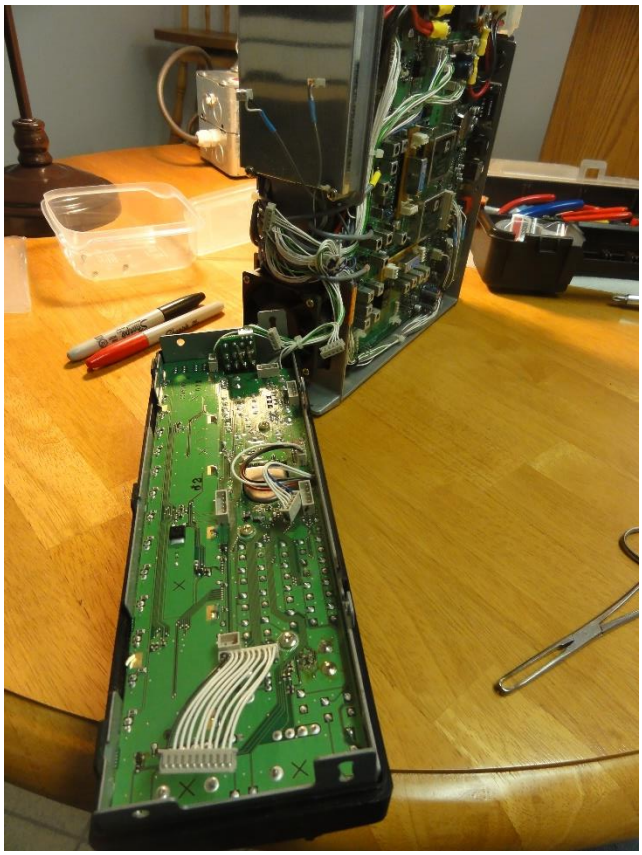
It's recommended that you take a picture of the back of the front panel in order to serve as a reference of which connector goes to which receptacle.

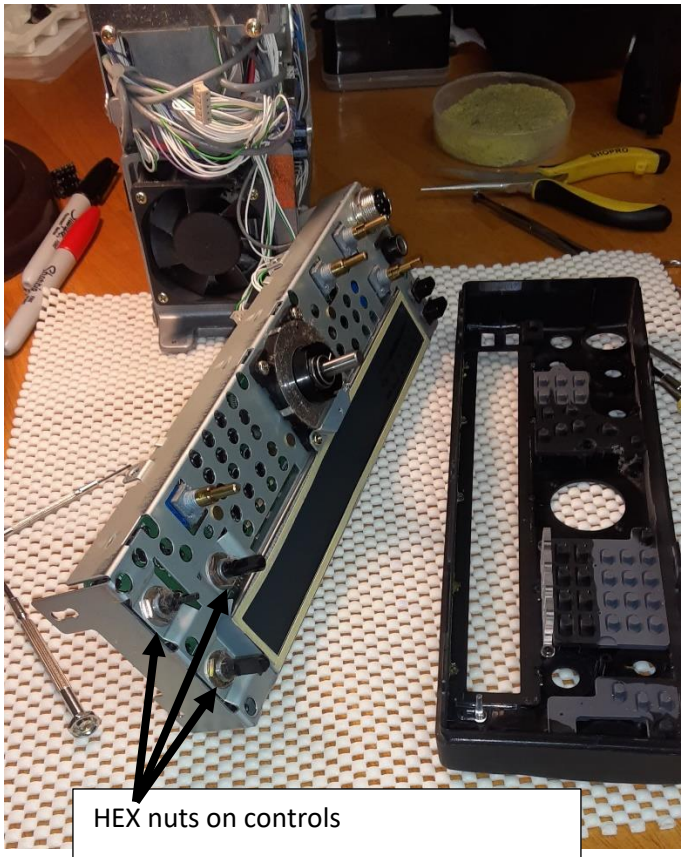


One knob was found to be glued on (in my rig) so to remove it required the area around the knob to be masked off with aluminum tape and the knob was heated (GENTLY and CAUTIOUSLY) with a solder re-work heat gun. Then immediately wrapped with double sided sticky tape and yanked on (big time) and it came off…!

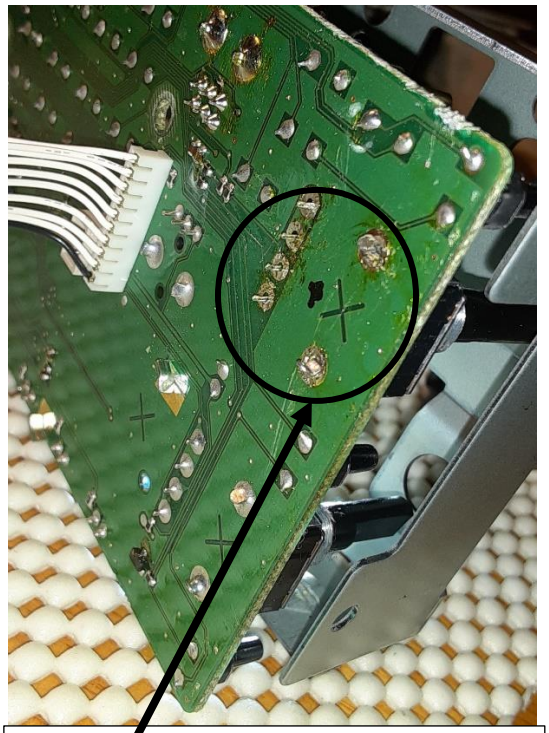
*This method was recommended by VE6OB….

After laying the panel flat, remove the HEX nuts holding controls to the metal front panel frame

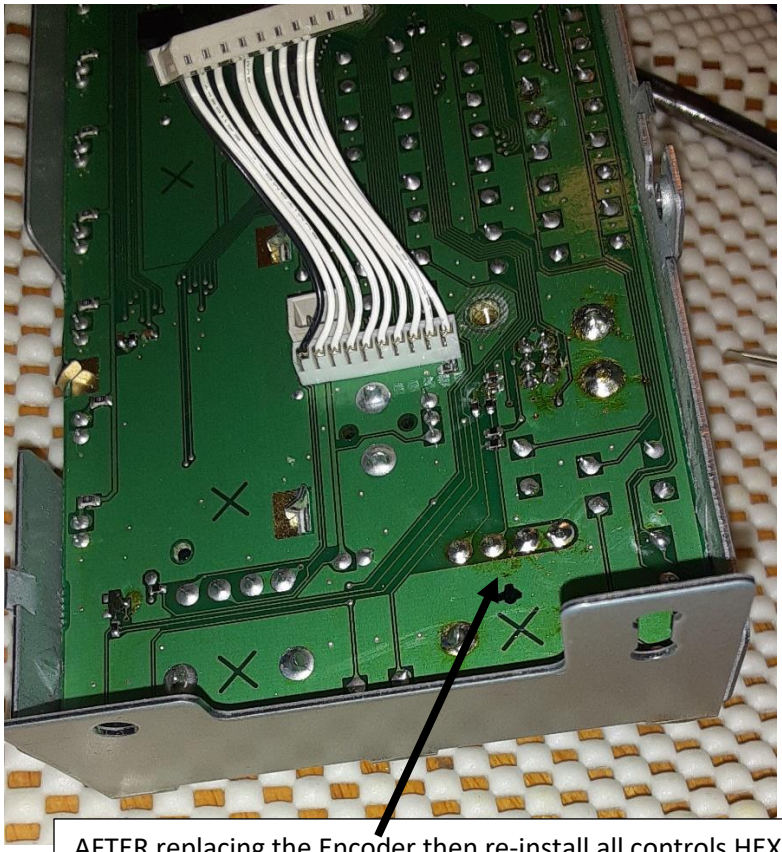




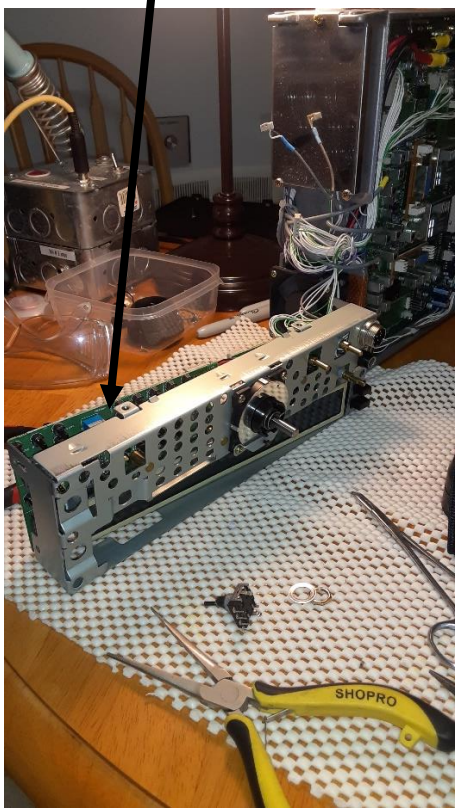
HEX nuts on controls

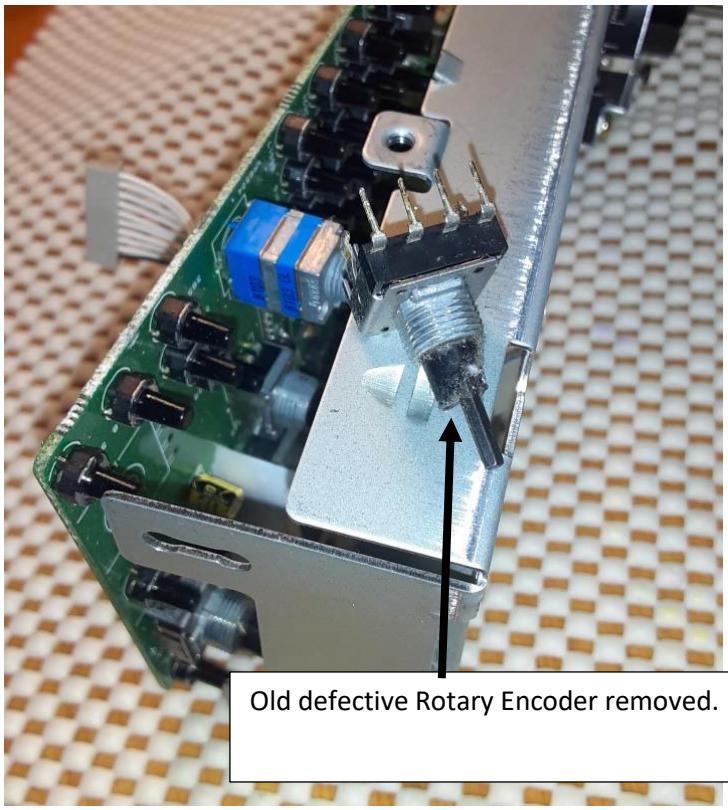


Unsolder the Rotary Encoder and then pull (GENTLY) the front panel circuit board back from it's metal frame. (JUST ENOUGH TO REPLACE THE ENCODER)

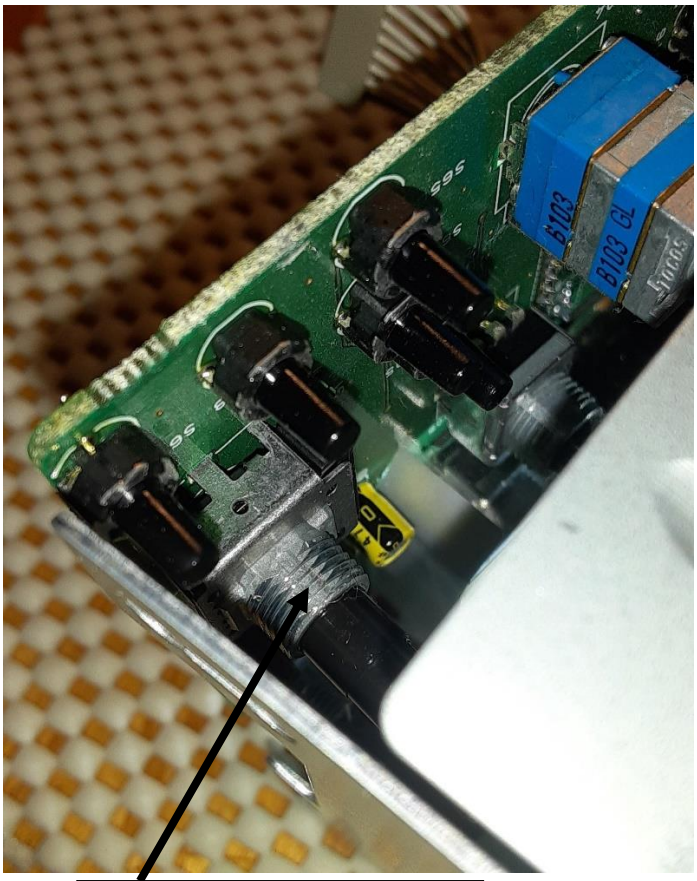


AFTER replacing the Encoder then re-install all controls HEX nuts thus ensuring the circuit board is seated properly in the metal frame AND THEN solder the Rotary Encoders tabs!....(4 contacts and 2 mounting posts associated with the Encoder)





Old defective Rotary Encoder removed.



NEW Rotary Encoder installed

Re-Assembly is simply the reverse of Dis-Assembly

WARNING; No responsibility is assumed for boredom, confusion, disgust, or other harmful or uncomfortable affects brought about by the reading of the above.