

GreyWoolfe

Super Contributor

Posts: 3211 Country:

Re: Metcal STSS-RM2 modification

« Reply #2 on: November 01, 2015, 01:45:32 pm »

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--Also, what is the deal with the connector on the RM3E wand? It seems like its kind of collet like -- I find it virtually impossible to properly attach. Like you have to have the connector turned all the way counter clockwise, then you shove it on, turn it clockwise as far it goes, and then twist the cable in as much as possible. The connector just seems like way more of a PITA than the RM2 connector which works like a standard F connector -- very smoothly.--

I would guess that it is designed that way so they aren't accidentally pulled off. Remember you really don't have a need to keep taking it on and off. I have the RM3E and Talon for mine plus a Hakko FX-951 on one side and a Yihua hot air unit on the other and I like the idea that I won't get tangled up in the cables with other stuff and pull it off. I have used push on F connectors in the past on cable TV and they were truly a PITA. IMHO, Metcal did it smart.

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That which doesn't kill you still requires a co-pay.

Re: Metcal STSS-RM2 modification « Reply #3 on: November 01, 2015, 04:30:46 pm »		Dealer	0
« Reply #3 on: November 01, 2015, 04:30:46 pm »	Say Thanks	Reply	Quote

Looking at the MX500 schematic, I'd tend to think the appropriate way to fool it would either be to add a 100uH inductor between out and ground or to short out C36 (possibly with a SPST switch -- although you'd want some way to access it (i.e. drill a hole in the case -- not sure that would be fun). A switch shorting between U2.1 and U2.8 might be another interesting option as that would not only disable the check but it would reset the latch -- which would mean you could change tips without shutting it off to reset it.

I don't see a way you could simply add a resistor since you don't want it in series (and it wouldn't even do any good because there is DC blocking cap in the wand), you could shunt it to ground, but unless its in the DC path (in which case, just short out C36), it'll shunt all the RF through it.

I'd still rather modify the wand just in terms of a "cleanliness" thing, I don't like the idea of losing functionality -- but maybe it doesn't matter.

As for the collet thing... GreyWoolfe, perhaps you've never used the RM2. the female barrel threads on just like any other RF connector. I've never had it pull off, it goes on easily, and tightly. The RM3E connector (and the DS1 tool, etc) push on, then you tighten the collet, but even then its not super tight, so you twist and twist and twist (and have to twist the whole cable) and it never gets as tight as the RM2 connector. It seems the collet doesn't tighten enough. If it did fully tighten, then I'd agree it might be a bit easier to use (sort of the difference between a quarter turn valve and a multi-turn), but the collet doesn't seem to tighten adequately. Just to let you know, I have an STSS-001, MX500, RM2, DS1, and I borrowed a friend's MX500 and RM3E. All the collet based connectors performed similarly on both MX500s, so I assume its a design based issue not my particular unit.

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BurningTantalum Frequent Contributor	Re: Metcal STSS-RM2 modification « Reply #4 on: November 02, 2015, 03:16:53 am »	Say Thanks	Reply	Quote
Posts: 292 Country: 📷	Sorry Hpmaxim, I didn't have the schematic in front of me when I posted. It really is quite fiddly to dismantle the wand, both RM2 and RM3E, believe have repaired several. Incidentally- my 3 RM3Es and my grey lead RM2 all have identical F-conner I have attached a pic of the RM3 in bits, and the RM2 in bits. The RM2 sho attached and the break point from flexing. The resistor looks like 2R2. Regards, BT	e me-I have bo	eads.	and

🗆 hpmaxim





MVC-315F.JPG (164.46 kB, 1024x768 - viewed 353 times.)



MVC-312F.JPG (196.13 kB, 1024x768 - viewed 361 times.)

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Re: Metcal STSS-RM2 modification « Reply #5 on: November 03, 2015, 01:41:00 am »	Say Thanks	Reply	Quote
Quote from: hpmaxim on November 01, 2015, 04:30:46 pm			

As for the collect thing... Greywoolle, perhaps you've never used the KM2. The ferhale barret threads on just like any other RF connector. I've never had it pull off, it goes on easily, and tightly. The RM3E connector (and the DS1 tool, etc) push on, then you tighten the collet, but even then its not super tight, so you twist and twist and twist (and have to twist the whole cable) and it never gets as tight as the RM2 connector. It seems the collet doesn't tighten enough. If it did fully tighten, then I'd agree it might be a bit easier to use (sort of the difference between a quarter turn valve and a multiturn), but the collet doesn't seem to tighten adequately. Just to let you know, I have an STSS-001, MX500, RM2, DS1,

Super Contributor





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	the cable and they are tight e is used along with the MX-50 interesting. I am fairly new t an opportunity to play with a that a threaded connector wi tight and I have no interest in	3E and Talon. Both collets tighten enough that with me really pulling of 0 bought at a local surplus store. T to Metcal, I only have my MX-500 a ny other unit/wand. Maybe I got lu II hold tighter. All I can say is that t in stressing either cables to see if I of bably put on threaded barrel conne	n them, they don't bud he RM3E I found NOS of couple of months. I hav cky, who knows. I hav he RM3E and Talon on can pull them off, thoug ctors.	ge. The Talon on eBay. Very ave never had e no doubt my unit are on
	That which doesn't kill you still rec	juires a co-pay.		
hpmaxim Regular Contributor	Re: Metcal STSS-RM2 « Reply #6 on: November		Say Thanks	Reply Qu
	out With the RM3E you twist then twist the collet fully cloc	. It's a standard threaded connecti the collet fully counterclockwise, sl kwise until it stops. At that point i urn the whole cable more to tighten	nove it on until it bottor ts sometimes tight, and	ms out and
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