MODIFICATION TO COLLINS KWM2/2A
REPLACE S11 POWER SWITCH WITH
Microswitch rated 15A 125VAC

This Modification is applicable to all KWM2/2A radio equipment, is fully reversible to restore to original S11 Oak Switch configuration if desired to maintain perfect originality (and of course failure prone switching).

Installation of this Modification should require no more than one hour, utilizing normal/common tools, which are at minimum, screw drivers of appropriate size, phillips and straight slot, ¼ inch and 3/16 inch socket and/or box end wrenches, small pliers, diagonal cutters, and proper soldering iron.

Components of the Kit:	Part Number	Quantity
Base Plate	RPM 259 1075 M001	1
Retention Plate	RPM 259 1075 M002	1
Actuating Lever	RPM 259 1075 M003	1
Screw, 4-40x11/16	N/A	2
#4 Nylon lock nut	N/A	2
Washer #4	NAS#4	2
Washer #4	AN 900C4	2
Push on Crimp terminal	N/A	2
Microswitch	Y-125-1C25	1

MODIFICATION PROCEDURE

WARNING: Remove Mains Power from unit prior to initiating any work

Access S11 and associated S12 by means comfortable to the installer. It is recommended that the unit be removed from its case to allow free access to the switch unit.
Remove S11 metal cover if installed and carefully unsolder the two power leads and set aside to allow working room.

Install the microswitch included in the kit on Base Plate RPM 259 1075-M001 utilizing the two 4-40 screws, NAS washers and nylon lock nuts. Do not tighten the screws at this point, just snug to hold switch in place. NOTE: Mount switch to base plate on the side with part number and with switch part number visible.

Place a suitable cloth of paper towel beneath the work area to catch any hardware that may be dropped whilst removing the S11 mounting plate.

Place S12/S12 in the “ON” position, and carefully remove the two 3/16 nuts and small lock washers holding the mounting plate. Be careful not to lose the spacers, or change the registry of the wafer switch section.

Remove the Oak switch and its mounting plate from rear of S12; a bit of wiggling and slight pressure will release the switch, and the small actuating lever.

Install Base Plate and installed microswitch upon S12 in reverse of the removal of original switch plate. Ensure that all switch components are in place and install the Actuating Lever P/N RPM 259-1075-M901 on S12 shaft noting position from the photo included with instructions. DO NOT FORCE, as the Lever is manufactured with a slight spring action.

Note position of Actuating Lever that it is free of contact with the Microswitch operating lever.

Install on each of the two S12 studs one washer, AN 960C4, the Retention Plate P/N 259-1075-M903 and the original lock washers and 3/16 nuts that were removed earlier.

Rotate S12 to the off position and note the engagement of Actuating Lever against Microswitch lever. Adjust the Microswitch as necessary for proper engagement, ensuring no excessive pressure on switch operating lever. Tighten the two 4-40 retention screws.

Connect the two removed power leads to the provided crimp terminals by (recommended) crimping and soldering the leads. NOTE: The crimp terminals may be a bit loose on the switch terminals due to manufacturing tolerances. If loose, slightly close the crimp terminal sides for a snug mechanical fit.

Install the prepared terminals on the Microswitch, ensuring that the lead that supplies power to the unit power supply is connected to the Common terminal, and the lead supplying power to the switch is connected to the NC terminal.

Check again the mechanical function of the installation, and if deemed appropriate, electrical function with appropriate test equipment. Remove any materials placed in unit to protect against losing parts, Ensure that there is no foreign matter in the radio, and reinstall in its case if removed and return radio to service.

It is recommended that this Modification be recorded in the KWM2/2A master manual and that the parts list be annotated necessary.

NOTE: There is no lubrication supplied or, in most cases required for the actuating lever assembly, however, if the installer desires, a VERY SMALL amount of synthetic or lithium based grease/lubricant may be placed on each side of the actuating lever.