SERVICE BULLETIN

MAINTENANCE AND MODIFICATION DATA

Broadcast Products Division

Bulletin No.

Date

MW-50, MW-50A, MW-5, MW-5A, SW-50 SW-100 and VP-100A Transmitters.

Equipment:

SUBJECT: High Voltage Shorting Solenoids.

- The modification is mandatory. It will improve the reliability PURPOSE: and operation of the high voltage solenoids and assure positive closure of the contacts which are required to short out high voltage.
- Kit part number 994-8251-001 (two kits per transmitter PARTS REQUIRED: required) which include the following for each kit:

Quantity	Part Number	Description
1	302-0362-000	Bolt 8-32x2.5 Stainless Steel
2	302-0213-000	Bolt 4-20
1	300-1651-000	Bolt ¼-20
2	310-0006-000	Flat Washer 8-32
2	310-0009-000	Flat Washer
1	358-0419-000	Spacer
2	314-0009-000	Split-Lock Washer
1	306-0012-000	Stopnut Elastic
1	829-3800-001	Spring
1	816-9888-001	Drawing
1	086-0001-004	Tube, lock tight

PROCEDURE: As per instruction 888-1799-001 enclosed.

Please fill out completely, sign and date the enclosed selfaddressed, postage paid card and return to us. This verifies that the modification has been completed and that the Service Bulletin and parts were received.

Should you have any questions regarding this modification please direct your inquiries to:

Supervisor, Radio Service Harris Corporation Box 4290 Quincy, Illinois 62301 (217) - 222 - 8200

THIS COMPLETES THE MODIFICATION.

HARRIS CORPORATION P.O. Box 290, Quincy, Illinois 62301 217/222-8200





ECN-23424

3-17-78

AM-116-LJS

888-1799-001

INSTRUCTIONS FOR MODIFICATION OF H.V. SOLENOID 590-0025-000

- I. (a) Disconnect all primary power.
 - (b) Locate 1K2, 2K1 in SW-100, SW-50, VP-100A, MW-50 and MW-50A. In the MW-5, MW-5A, locate 1S5A, 1S5B.
 - (c) Remove 8=32 bolt that secures solenoid plunger to aluminum end cap of shorting bar assembly. Replace with 8=32 x 2.5 bolt, spacer and 2 flat washers. Refer to Drawing number 816-9888-001.
 - (d) Remove 2 each 1/4=20 x .5 screws that secure right side of solenoid to bracket.
 - (e) Install spring 829-3800-001 between 1/4=20 screws and solenoid mounting flange with spring lever positioned on top of spacer 358-0419-000.

Note: Be sure to install 1/4=20 flat washers 310-0009-000 provided, next to spring when replacing hardware.

- (f) Place threaded end of 1/4=20 x 1.5 screw 300-1651-000 provided in solenoid air gap. Pull plunger up manually until 1/4=20 screw is wedged in air gap. Spring lever should just begin to touch spacer. If it does not, bend spring at large radius (bend carefully) until it does. Remove 1/4=20 x 1.5 screw and discard.
- (g) Apply 115 volts AC to solenoid coil. Then remove voltage. Shorting bars should now drop reliably.
 - Note: If solenoid should tend to chatter when closed, bend spring contact point upward until chatter stops, but no more than 1/8 inch.
- (h) Assure that connections between wire braid and shorting bar assembly are tight. Utilize tube of lock tight, included, to seal this hardware. Periodic inspection of these connections should be made.
- (i) Repeat above steps for second solenoid.



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