



Telephonics Corporation
815 Broad Hollow Road
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SERVICE BULLETIN

REVISION 1 To Service Bulletin SB-1300/2022A-032A

RDR-1300/IN-2022A WEATHER RADAR SYSTEM

**IN-2022A MULTIFUNCTION COLOR INDICATOR
PART NUMBERS 4001373-2201 THROUGH -2208 AND -2210**

SUBASSEMBLY MOD 2 TO MAIN FRAME

**IN-2022A MULTIFUNCTION COLOR INDICATOR
PART NUMBER 4001373-2209**

SUBASSEMBLY MOD 3 TO MAIN FRAME

**IN-2022A MULTIFUNCTION COLOR INDICATOR
PART NUMBER 4001373-2211**

SUBASSEMBLY MOD 1 TO MAIN FRAME

TO INCREASE PAWL TRAVEL TO PREVENT CRUSHING OF SPRING

REASON FOR CHANGE:

Original service bulletin omitted removal and replacement of springs.

No previous revisions have been made to this service bulletin.



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1. Planning Information

A. Effectivity

This Service Bulletin applies to IN-2022A Radar Indicators bearing serial numbers 2102 and below. Units bearing serial numbers 2103 and above have this modification incorporated at the time of manufacture.

B. Reason

This modification prevents crushing the spring on the locking pawl assembly by increasing the travel of the pawl.

C. Description

This modification consists of removing and discarding two springs, two washers, two hex nuts, two screws, and two spacers, adding two hex nuts, two screws, two spacers, and two teflon washers, and replacing two springs and locking pawls.

D. Compliance

Perform this modification the next time the unit is removed for service.

E. Approval

This Service Bulletin contains no modification information that revises the approved configuration and therefore does not require FAA or other regulatory agency approval.

F. Manpower

Approximately 0.5 man-hour of labor, excluding time for testing, is required to perform this modification.



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G. Material – Cost and Availability

The parts required for this modification are shown in paragraph 3. For current list price and parts availability, contact:

Telephonics Corporation
815 Broad Hollow Road
Farmingdale, NY 11735
Attn: CSD Product Support
1-631-755-7004

Orders must specify the part numbers of parts required, the description, and reference Service Bulletin 1300/2022A-032A (IN-2022A-32A).

H. Reference

RDR-1300/IN-2022A Weather Radar System Maintenance Manual, I.B. 22022A.

I. Publications Affected

This modification will be documented in the next revision to RDR-1300/IN-2022A Weather Radar System Maintenance Manual, I.B. 22022A.

J. Warranty

Material and a maximum of 0.5 man-hour of labor will be covered if the unit is under warranty.

2. Accomplishment Instructions

NOTE: Refer to I.B. 22022A, Part 4, Section V, Paragraph 5 for all disassembly and assembly instructions.

A. Modification Procedure

WARNING: REMOVE ALL POWER FROM THE UNIT BEFORE DISASSEMBLY OF ANY COMPONENT, PC BOARD, MODULE OR SUBASSEMBLY FROM THE IN-2022A. IN ADDITION TO BEING DANGEROUS TO LIFE, VOLTAGE TRANSIENTS CAN CAUSE CONSIDERABLE DAMAGE TO THE EQUIPMENT.

CAUTION: THIS EQUIPMENT CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) DEVICES. EQUIPMENT, MODULES AND ESDS DEVICES MUST BE HANDLED IN ACCORDANCE WITH PROCEDURES OUTLINED IN THE "MAINTENANCE PRACTICES" SECTION OF I. B. 22022A, PART 4, SECTION V, PARAGRAPH 4.

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CAUTION: EXERCISE EXTREME CARE WHEN DISCONNECTING AND RECONNECTING MULTIPIN CONNECTORS TO ENSURE THAT CONNECTORS ARE NOT DAMAGED BY MISALIGNMENT OF PINS.

NOTE: Refer to RDR-1300/IN-2022A Weather Radar System Maintenance Manual, I.B. 22022A, Part 4, Section V, Paragraph 5. Item numbers in parentheses after the noun name of a part apply to Parts List Figure 6-1, Part 4, unless otherwise stated.

- (1) Remove the dust cover (2) and front panel assembly (10).
- (2) Refer to Figure 1 of this Service Bulletin for location of locking pawl (54) and associated parts.
- (3) Remove and discard two springs, two hex nuts, two washers, two spacers, two screws, and two locking pawls.
- (4) Install two locking pawls (P/N 4005134-0001), two springs (P/N 35007-0053), two special screws (P/N 08950000-0001), two tubular spacers (P/N 34021-0005), two Teflon washers (P/N 36005-0120), and two hex nuts (P/N 45067-0005) onto the two locking pawl assemblies as shown in Figure 2 of this Service Bulletin.

NOTE: Install the nuts such that there is approximately 0.03-inch (0.762 mm) gap between the nut and chassis tab. The locking pawl assembly shall turn freely with no resistance between the chassis tab and nut.

- (5) After assembling the locking pawl, turn the screw so that the pawl completely collapses the spring. Apply Loctite (blue #242) to the screw threads between the pawl and the screw head. Run the pawl forward and back to distribute the Loctite. Allow Loctite to cure.

- (6) Part Numbers 4001373-2201 through -2208 and -2210 Only

Place a drop of red paint on the mainframe chassis modification identifier to indicate that Mod 2 has been performed.

- (7) Part Number 4001373-2209 Only

Place a drop of red paint on the mainframe chassis modification identifier to indicate that Mod 3 has been performed.

- (8) Part Number 4001373-2211 Only

Place a drop of red paint on the mainframe chassis modification identifier to indicate that Mod 1 has been performed.



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B. Reassembly

Refer to the RDR-1300/IN-2022A Weather Radar System Maintenance Manual, I.B. 22022A, Part 4, Paragraph 5 and reassemble the unit.

C. Testing

To verify that the equipment is suitable for installation in an aircraft, perform the installation checkout procedures provided for the IN-2022A Radar Indicator in the RDR-1300/IN-2022A Weather Radar System Maintenance Manual, I.B. 22022A.

3. Material Information

The following parts are required to modify one IN-2022A Radar Indicator:

ASGAA Part Number	Vendor Part Number	Vendor Code	Description	Qty
4005134-0001	4005134-0001	64694	Pawl, locking	2
45067-0005	45067-0005	64694	Nut, hex	2
34021-0005	34021-0005	64694	Spacer, tubular	2
36005-0120	36005-0120	64694	Washer, teflon	2
08950000-0001	08950000-0001	64694	Screw, special	2
35007-0053	35007-0053	64694	Spring	2

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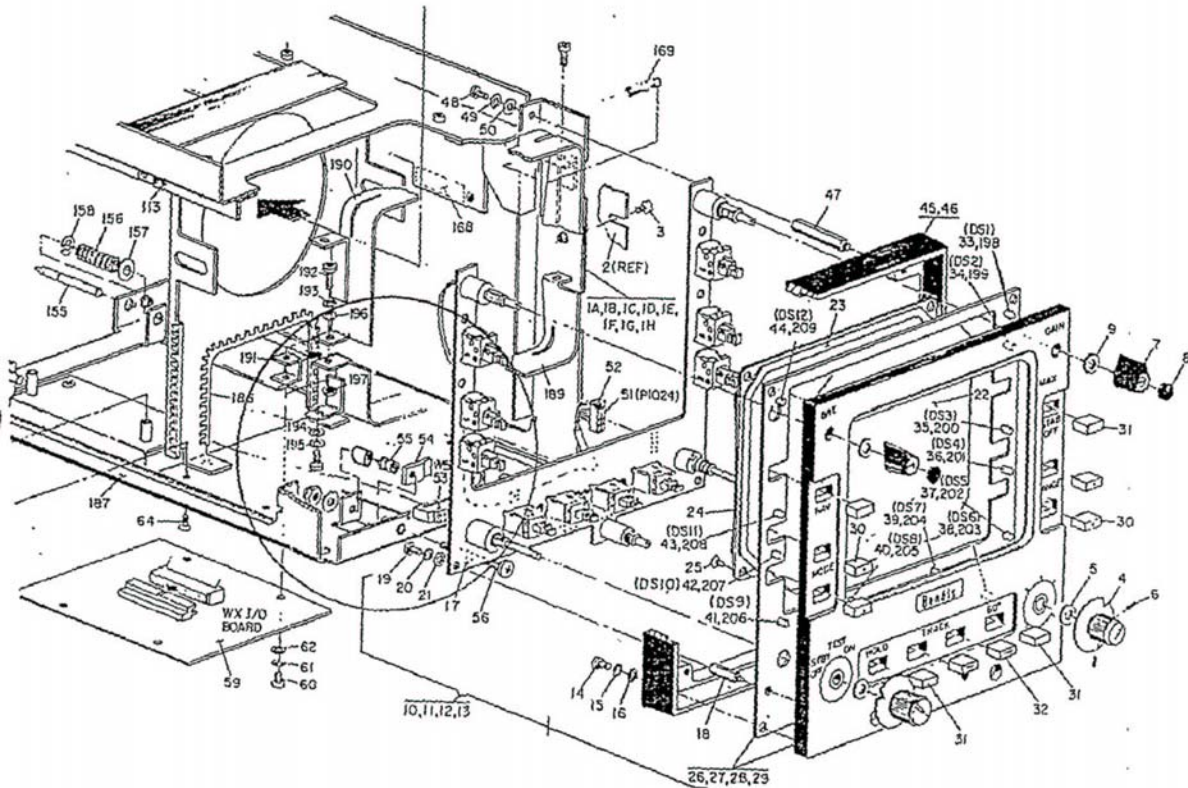


Figure 1. Locking Pawl Location

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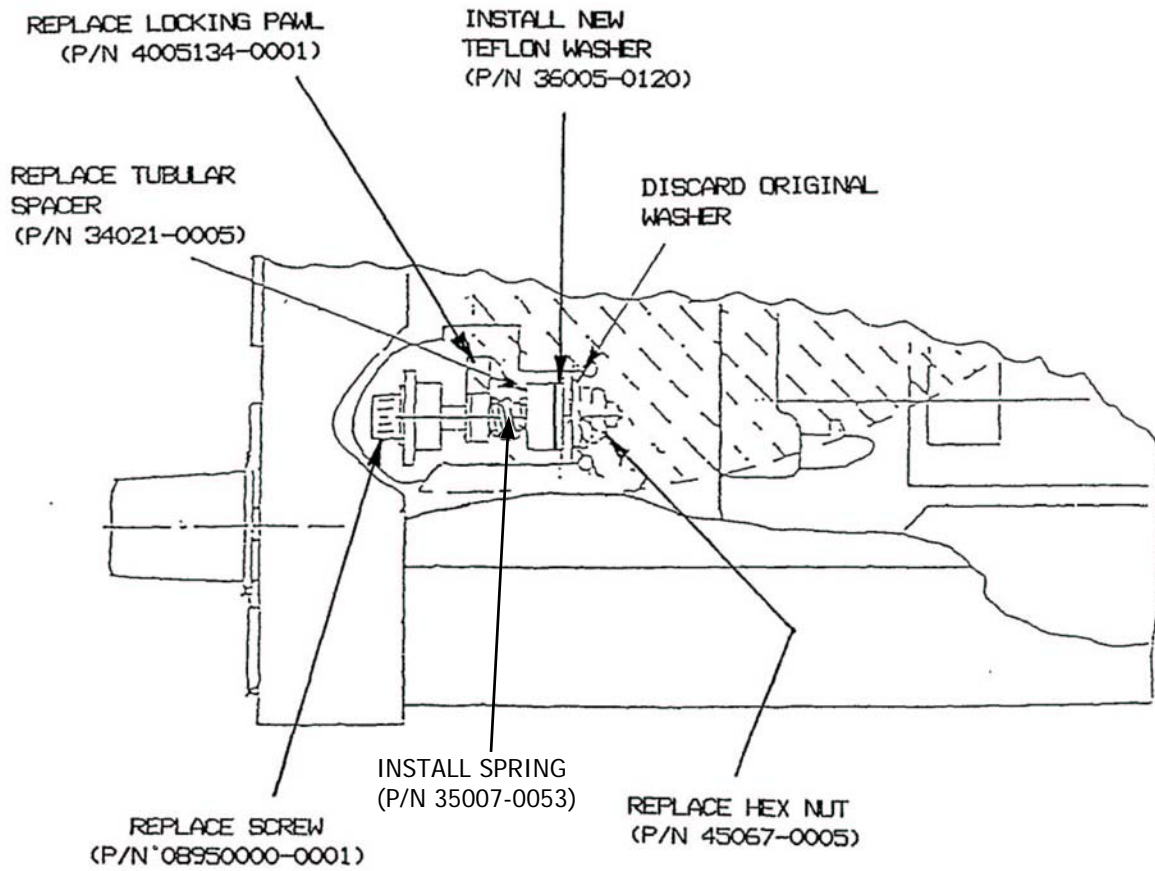


Figure 2. Locking Pawl Modification Detail