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TECHNICAL BULLETIN

Technical Bulletin No.: **TB-909-22-01**
Cargo Hook Model No. 909
Date: December 28 ,2022
Page No.: 1 of 5
Rev.1

SUBJECT: Manual release cable return modification.

MODELS AFFECTED: Model 909

COMPLIANCE: Customer option

DESCRIPTION:

Mechanical Specialties LLC has received customer requests to develop a means to assist in the return of the manual release cable to its fully extended position after activation. This bulletin provides modification instructions for cargo hook Model 909 to comply with those requirements.

APPROVAL:

The engineering design aspects of this bulletin are DER / Mechanical Specialties Engineering approved.

MATERIALS:

The following kit to accomplish this modification can be obtained through Mechanical Specialties LLC.

<u>Item number</u>	<u>Part Number</u>	<u>Description</u>
1	909-706-086-100	909 Cable Return Retrofit Kit

ROTORCRAFT FLIGHT MANUAL SUPPLEMENT:

Not affected.

OPERATIONS MANUAL:

Not affected

LIMITATIONS:

Not affected

WEIGHT AND BALANCE:

Not affected

REFERENCES:

909-706-086-100 Installation Instructions

ACCOMPLISHMENT INSTRUCTIONS:

This modification may be carried out by any qualified aircraft mechanic.

909-706-086-100 KIT INSTALLATION INSTRUCTIONS

(INSTALL KIT ON HOOK AFTER REMOVING EXISTING MANUAL RELEASE CABLE ASSEMBLY AND ROUTING NEW 9089-15 CABLE ASSEMBLY THROUGH AIRFRAME)

1. (REF. FIG. 2) REMOVE EXISTING 9085-1 COVER PLATE, 6060-1 MANUAL RELEASE KNOB AND 6148-1 RELEASE ARM.
2. (REF. FIG. 2) INSTALL 909-050-086-013 SPRING HOUSING WITH SUPPLIED MS24694S50 SCREWS.
3. INSTALL 909-050-086-024 SPRING GUIDE IN SPRING HOUSING.
4. REMOVE CABLE ATTACH BLOCK 9080-1.
5. THREAD CABLE ASSEMBLY AND JAM NUT FULLY INTO 9080-1 CABLE MOUNT.
6. REINSTALL 9080-1 AND CABLE ASSEMBLY ON HOOK WITH CABLE END EXTENDING INTO SPRING HOUSING.
7. INSTALL BUSHING 909-050-086-007 ON CABLE, SMALL FLANGE TOWARDS SPRING HOUSING WALL.
8. INSTALL 71900S SPRING OVER CABLE INSURING LARGE FLANGE OF BUSHING 909-050-086-007 RIDES INSIDE OF SPRING.
9. COMPRESS SPRING SLIGHTLY AND INSTALL BUSHING 909-050-086-006. INSURE CABLE BALL RESTS IN BALL POCKET OF BUSHING.
10. INSURE SMALL FLANGE OF BUSHING 909-050-086-007 INTERFACES WITH HOLE IN END OF SPRING HOUSING.
11. INSTALL HOUSING COVER 909-050-086-001 WITH 4 EA. MS35265-42 SCREWS.
12. INSTALL 909-040-148-025 RELEASE ARM (AS SHOWN IN FIG. 1) USING SUPPLIED ROLL PIN. INSTALL MS35265-42 SCREW SECURING CABLE IN RELEASE ARM, REINSTALL MANUAL RELEASE KNOB.
13. APPLY SMALL AMOUNT OF SUPPLIED ADHESIVE TO BACK OF LOCK PLATE 909-050-086-023. INSTALL LOCK PLATE WITH SUPPLIED MS35206-226 SCREWS AND NAS1149FN616P WASHERS. (LEAVE SCREWS SLIGHTLY LOOSE).
14. WITH LOAD BEAM FULLY CLOSED ALIGN MARK ON LOCK PLATE WITH POINTER ON RELEASE ARM. TIGHTEN SCREWS.
15. ENGRAVE DATA PLATE TO REFLECT NEW P/N 909-200-2.

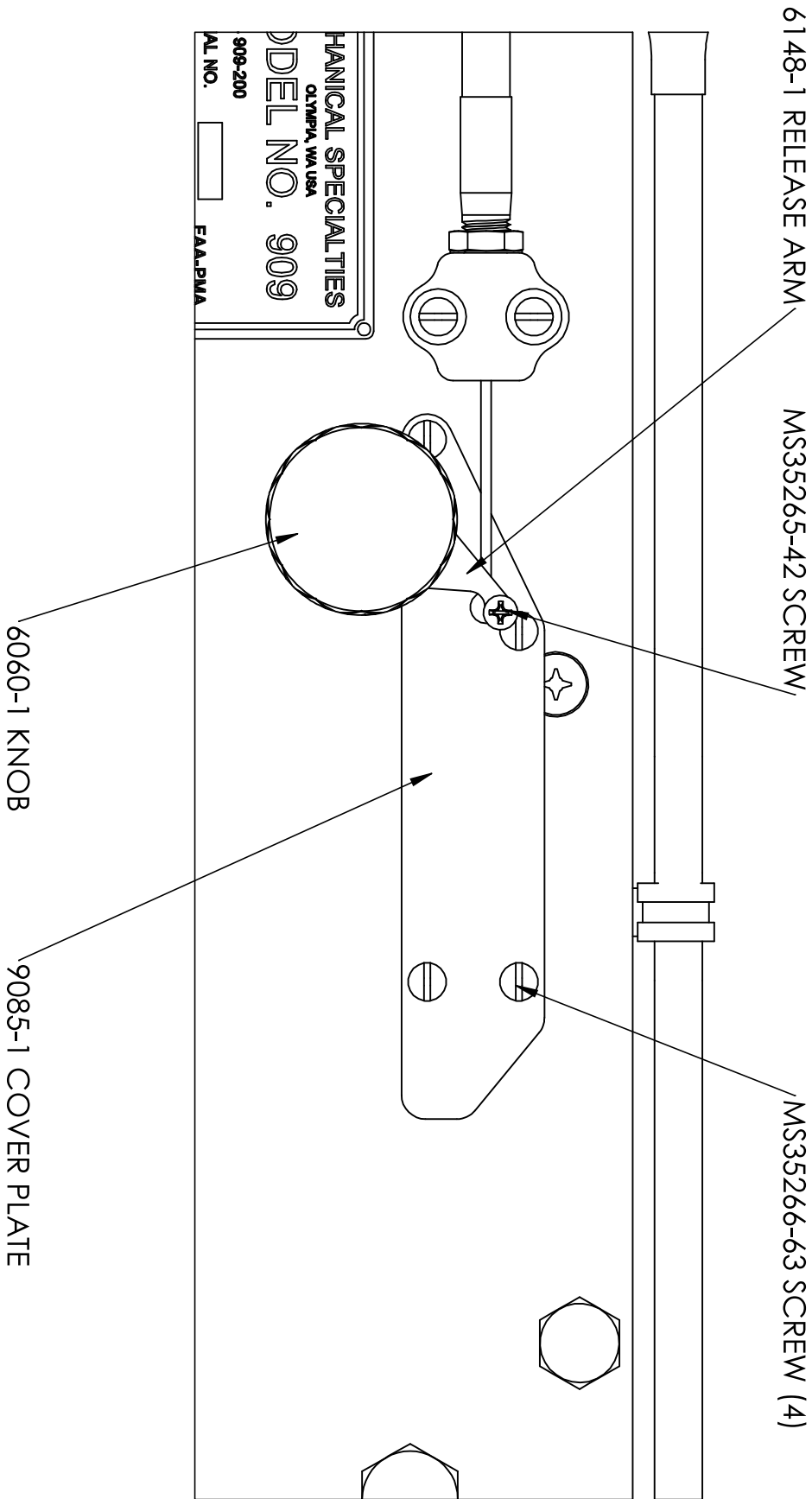


FIG.1

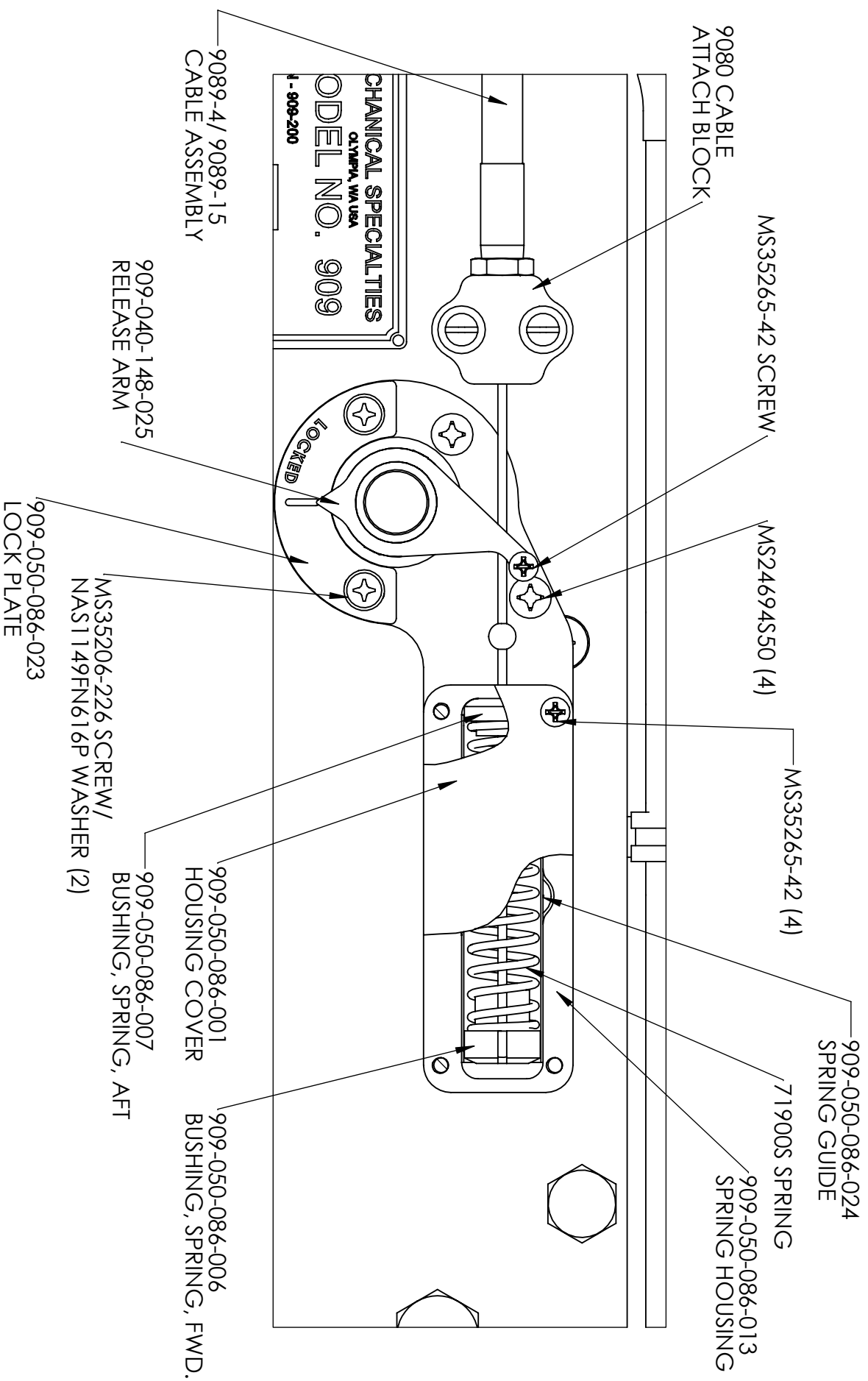


FIG. 2