



MECHANICAL SPECIALTIES LLC
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TECHNICAL BULLETIN

Technical Bulletin No.: **TB-909-22-02**
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	909-706-086-110	909 Cable Return Retrofit Kit

ROTORCRAFT FLIGHT MANUAL SUPPLEMENT:

Not affected.

OPERATIONS MANUAL:

Not affected

LIMITATIONS:

Not affected

WEIGHT AND BALANCE:

Not affected

REFERENCES:

909-706-086-110 Installation Instructions

ACCOMPLISHMENT INSTRUCTIONS:

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

909-706-086-110 KIT INSTALLATION INSTRUCTIONS

(INSTALL KIT ON HOOK AFTER ROUTING NEW 9089-15 CABLE ASSEMBLY THROUGH AIRFRAME)

REF. FIG. 2

1. REMOVE CABLE ATTACH BLOCK 9080-1.
2. REMOVE HOUSING COVER 909-050-086-001.
3. INSTALL 909-050-086-024 SPRING GUIDE.
4. THREAD CABLE ASSEMBLY AND JAM NUT FULLY INTO 9080-1 CABLE MOUNT.
5. REINSTALL 9080-1 AND CABLE ASSEMBLY ON HOOK WITH CABLE END EXTENDING INTO SPRING HOUSING.
6. INSTALL BUSHING 909-050-086-007 ON CABLE, SMALL FLANGE TOWARDS SPRING HOUSING WALL.
7. INSTALL 71900S SPRING OVER CABLE INSURING LARGE FLANGE OF BUSHING 909-050-086-007 RIDES INSIDE OF SPRING.
8. COMPRESS SPRING SLIGHTLY AND INSTALL BUSHING 909-050-086-006. INSURE CABLE BALL RESTS IN BALL POCKET OF BUSHING.
9. INSURE SMALL FLANGE OF BUSHING 909-050-086-007 INTERFACES WITH HOLE IN END OF SPRING HOUSING.
10. INSTALL HOUSING COVER 909-050-086-001 WITH 4 EA. MS35265-42 SCREWS REMOVED.
11. APPLY SMALL AMOUNT OF SUPPLIED ADHESIVE TO BACK OF LOCK PLATE 909-050-086-023.
12. WITH LOAD BEAM FULLY CLOSED ALIGN MARK ON LOCK PLATE WITH POINTER ON RELEASE ARM. TIGHTEN SCREWS.
13. ENGRAVE DATA PLATE TO REFLECT NEW P/N 909-200-2.

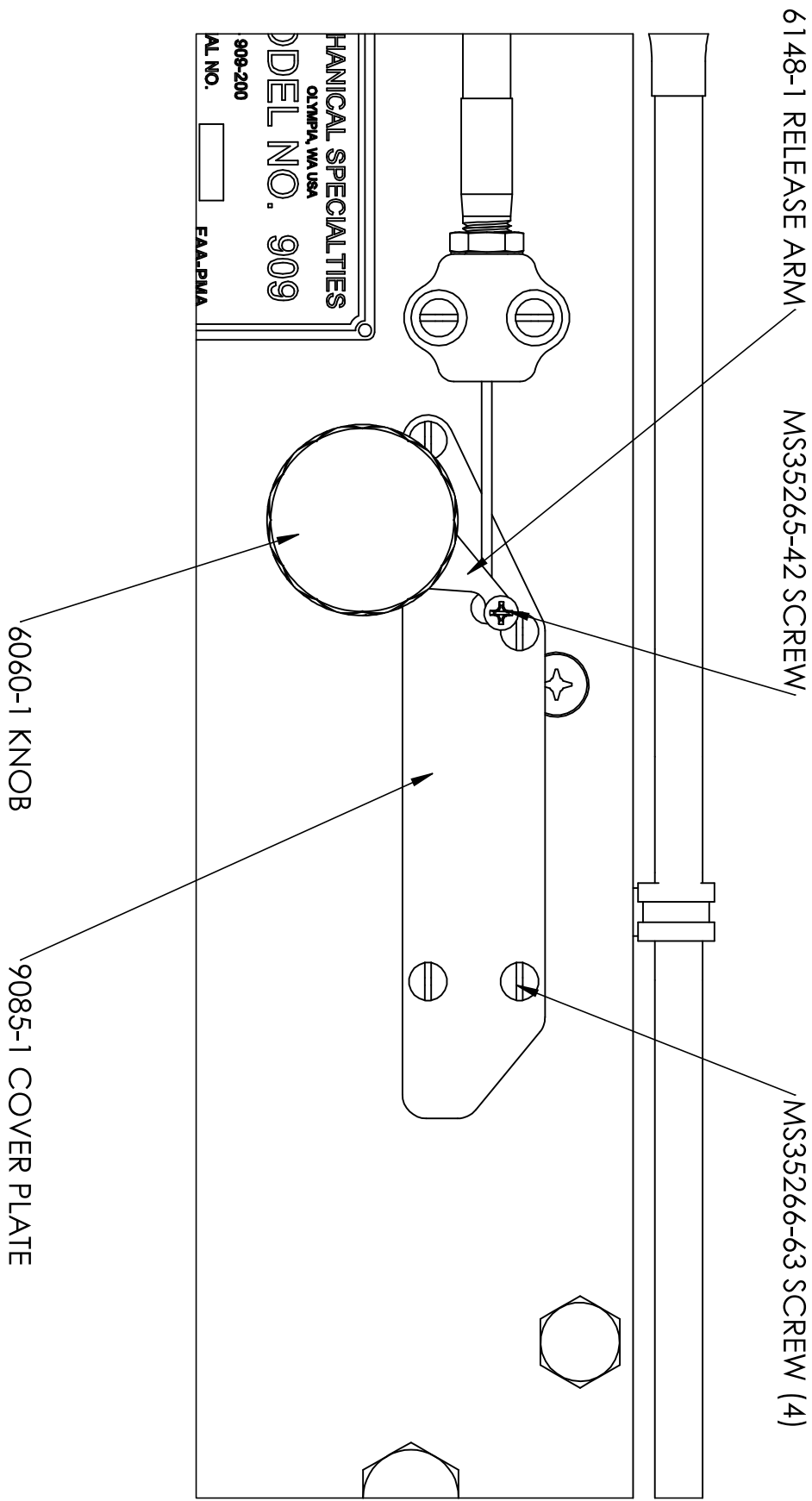


FIG.1

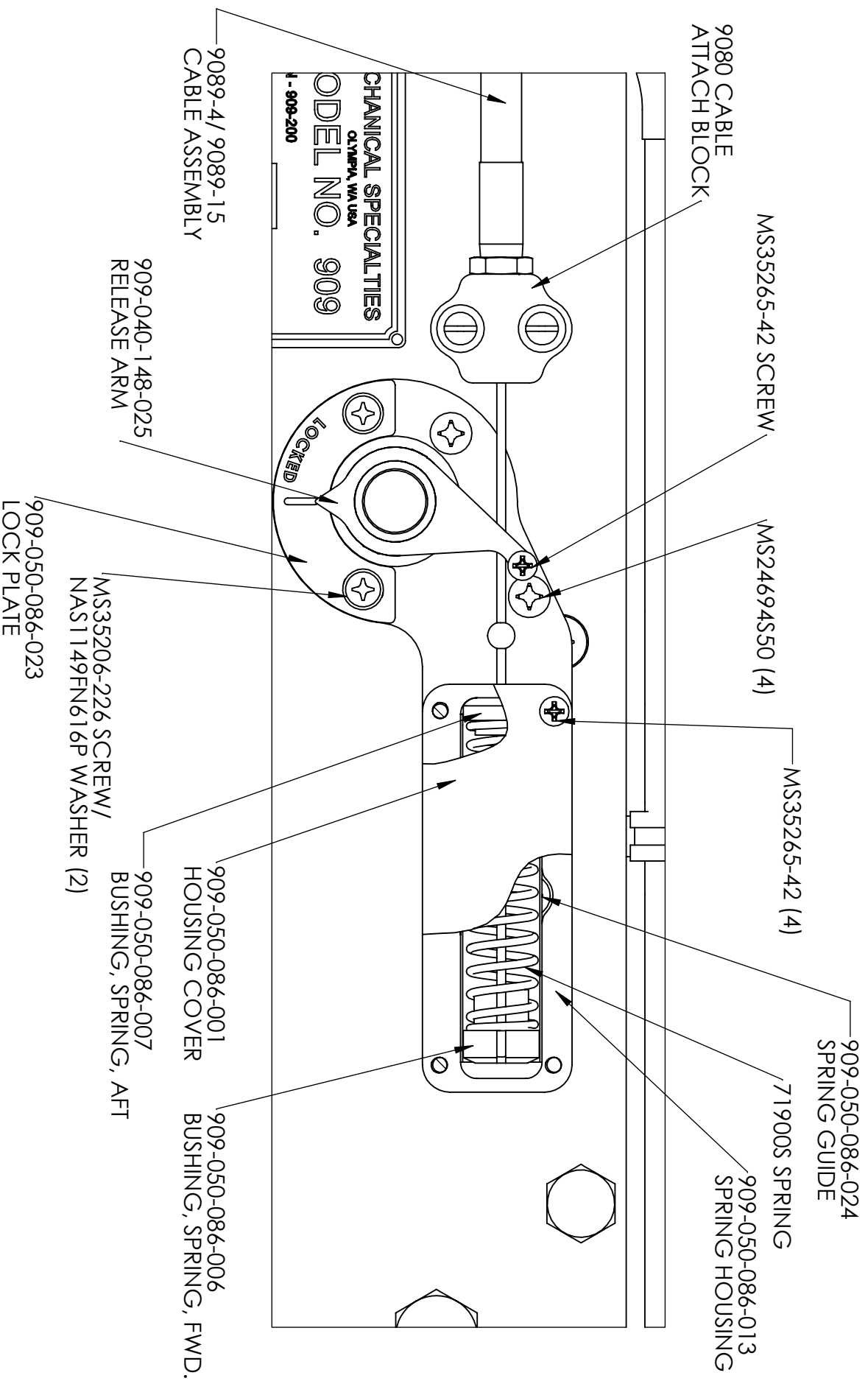


FIG. 2