

EMDL INSPECTION & REPLACEMENT PROCEDURES

*** WARNING ***

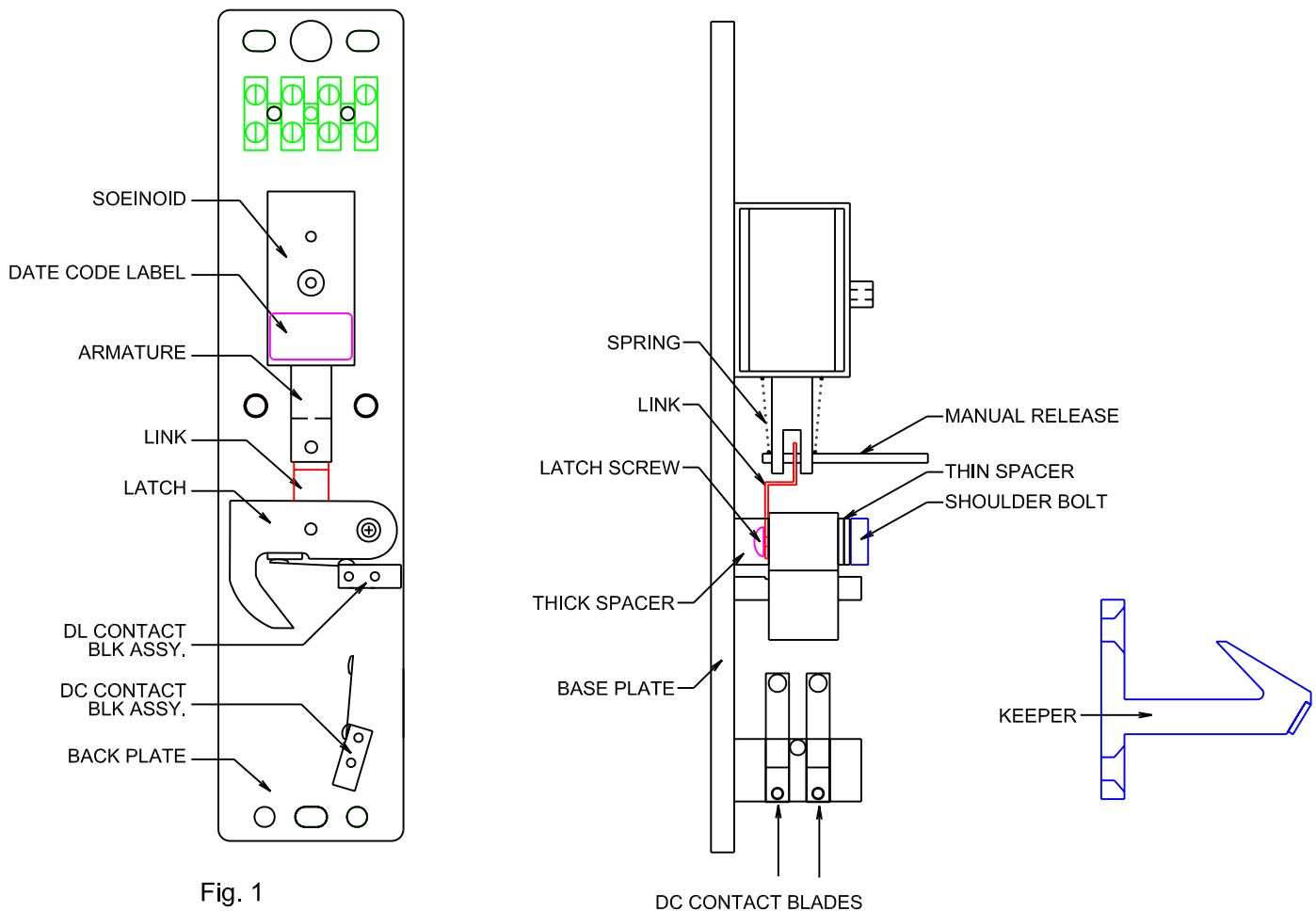
IT IS IMPORTANT TO BE FAMILAR WITH THE NOMENCLATURE BEFORE BEGINING THE INSPECTION AND REPLACEMENT PROCESS.

I. Required Tools:

- a. No. 1 Phillips Screwdriver
- b. No. 2 Phillips Screwdriver
- c. 1/8" Allen wrench
- d. Thread locking compound
("Loctite" Threadlocker 242 or equivalent)
- e. GO-NOGO Gauge
Porta P.N. EMDLGNGG
- f. Latch & Keeper (metal)
Porta P.N. EMDLRETKIT

II. Nomenclature:

Figure 1 shows the EMDL components.



WARNING

DO NOT ATTEMPT TO INSPECT OR REPAIR THE EMDL WITHOUT A THOROUGH UNDERSTANDING OF THESE INSTRUCTIONS, THE PROPER TOOLS AND PARTS, AND A THOROUGH KNOWLEDGE OF THE ELEVATOR AND CONTROL SYSTEM

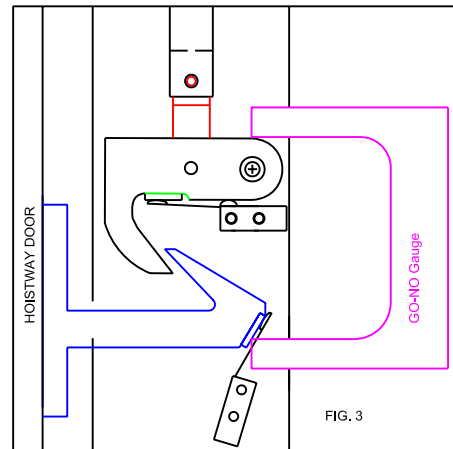
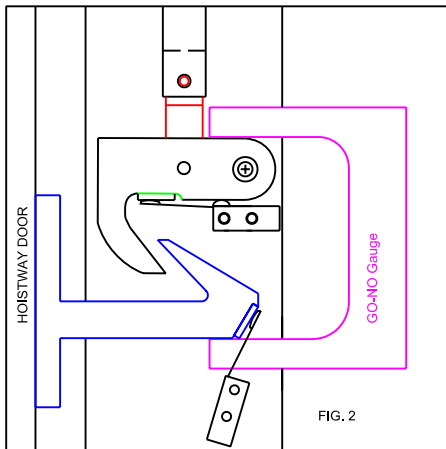
EMDL INSPECTION & REPLACEMENT PROCEDURES

***** WARNING *****

**CAR MUST BE AT LANDING OF EMDL DURING INSPECTION AND REPLACEMENT PROCEDURES
TURN OFF AND LOCK OUT MAINLINE AND BACKUP POWER SOURCES
CONTACT PORTA IMMEDIATELY IF YOU FIND DISCREPANCIES OR HAVE QUESTIONS**

III. GO-NOGO INSPECTION

1. Using a No. 1 Phillips screwdriver, remove the EMDL cover
2. Ensure the EMDL is de-energized and HW door is closed
3. Insert GO-NOGO gauge into EMDL as shown in fig. 2
CAUTION! The gauge must be inserted between the two blades of the DC contact block.
4. If the gauge can be inserted as shown in fig. 2, proceed to Keeper and Latch replacement, IV - VIII
5. **WARNING! If gauge cannot be inserted as shown in fig. 3, REPLACE the EMDL**



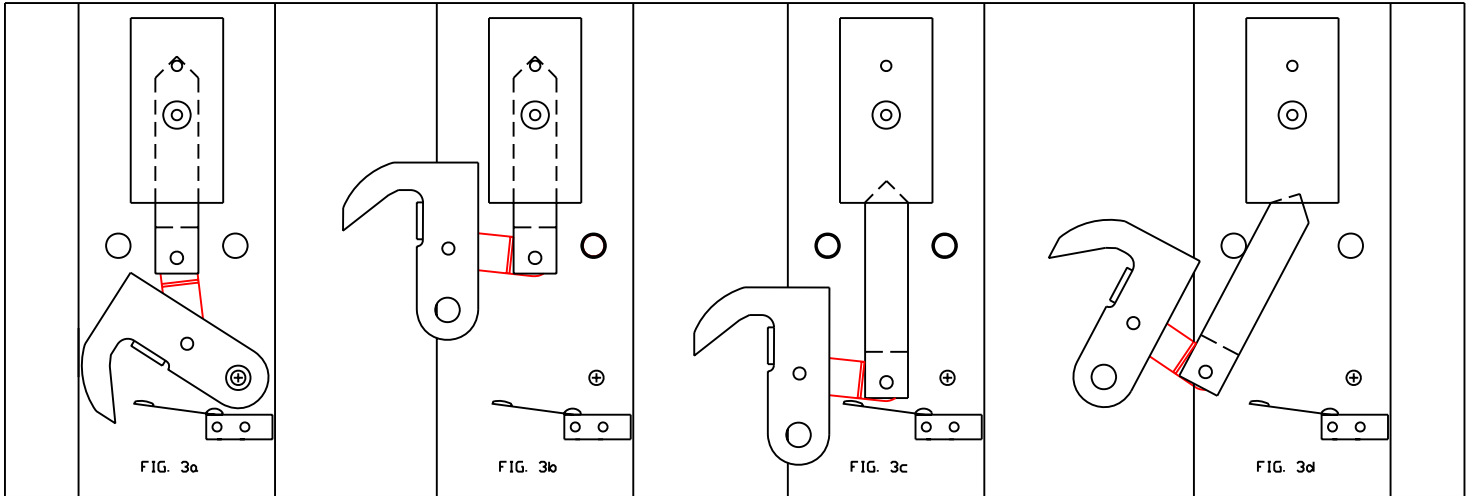
IV. EMDL Keeper Replacement

1. Unlock hoistway door by lifting the MANUAL RELEASE
2. Open hoistway door
3. Remove existing Keeper
4. Install the metal Keeper using the existing hardware

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V. EMDL Latch Removal

1. Using a 1/8" Allen wrench remove the shoulder bolt
NOTE: Place your hand under the EMDL to catch the THICK SPACER
2. Lift the MANUAL RELEASE as shown in fig. 3a
3. Rotate the LATCH and LINK assembly as shown in fig. 3b
4. Lower and rotate LATCH and Link assembly as shown in fig. 3c & 3d



VI. LATCH Replacement

1. Remove SPRING from ARMATURE
2. Hold LATCH assembly as shown in fig. 4
3. Using a No. 2 Phillips screwdriver, remove the LATCH SCREW
4. Attach metal LATCH to LINK using existing LATCH SCREW
5. Using a No. 2 Phillips screwdriver, fully tighten the LATCH SCREW
6. Using a No. 2 Phillips screwdriver, loosen LATCH SCREW 1/4 turn
7. Place SPRING on ARMATURE
NOTE: Small diameter of spring faces towards MANUAL RELEASE

VII. Insert LATCH to SOLENOID

1. Follow Step V procedures in reverse
2. Apply a small amount of thread locking compound to SHOULDER BOLT threads
3. Tighten SHOULDER BOLT
4. Ensure the LATCH moves freely by actuating MANUAL RELEASE
5. Repeat III GO-NOGO inspection

VIII. Replace cover, restore power to elevator and check EMDL for proper operation

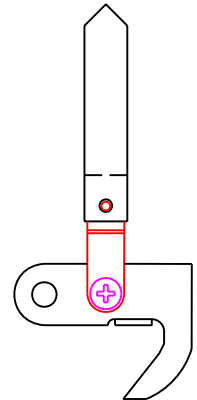


FIG. 4

***** WARNING *****
DO NOT RESTORE ELEVATOR TO SERVICE WITHOUT
VERIFYING PROPER OPERATION OF EMDL