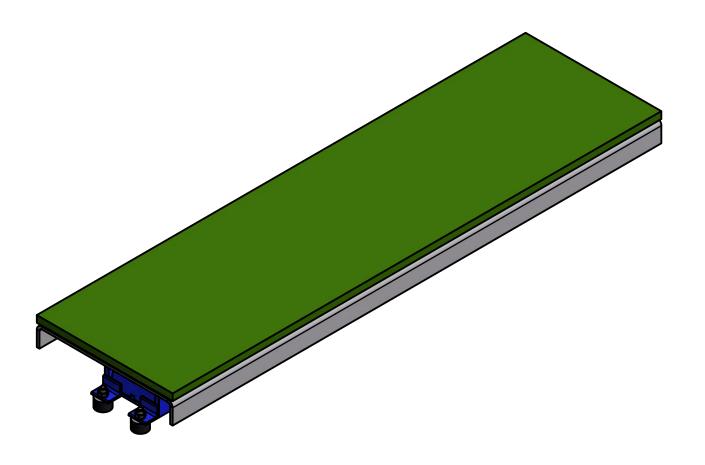
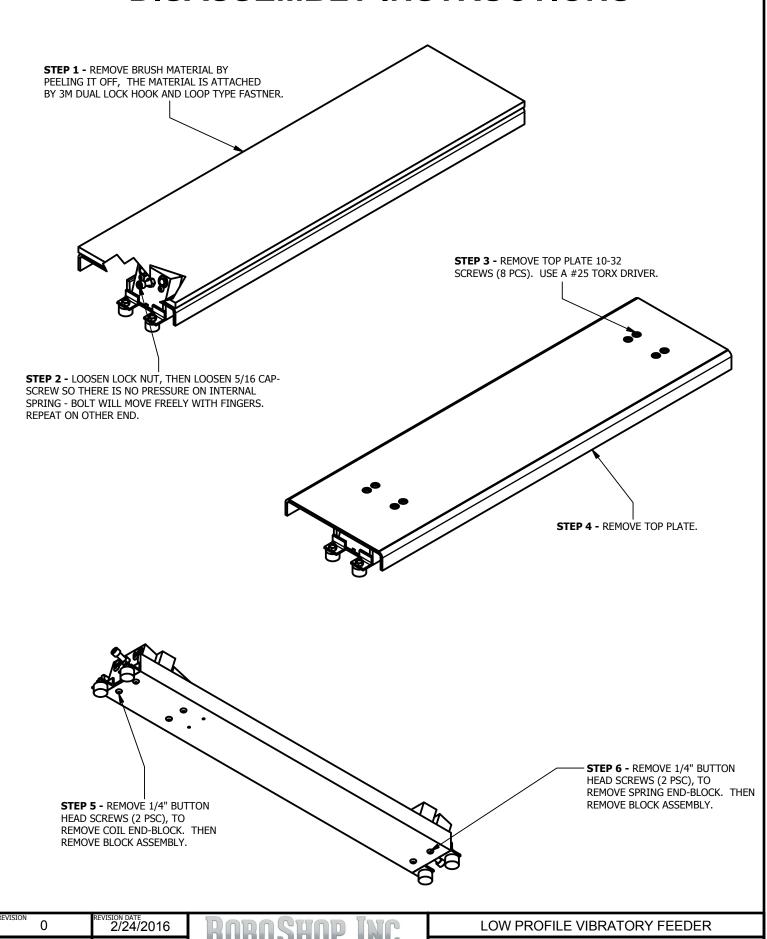
RoboShop Inc.

MAINTENANCE MANUAL FOR LOW PROFILE VIBRATORY FEEDER



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DISASSEMBLY INSTRUCTIONS



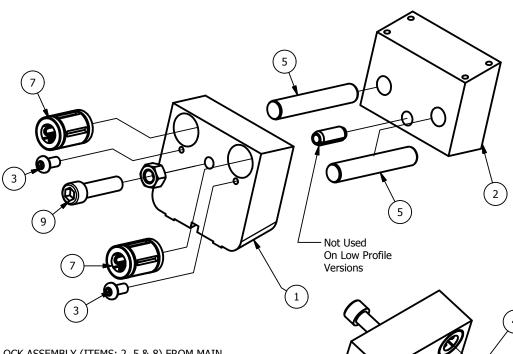
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VIBRATORY MOTION SYSTEMS

MAINTENANCE MANUAL

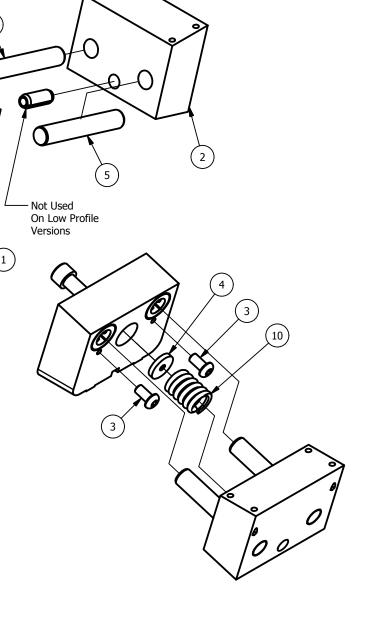
LOW PROFILE COIL BLOCK ASSEMBLY

PARTS LIST			
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	ANGLED END BLOCK - COIL - LOW PROFILE	RoboShop-LP-009
2	1	ANGLED PULL BLOCK - LOW PROFILE	RoboShop-LP-007
3	4	Button Head Cap Screw	8-32 x 3/8
4	1	Gibraltar - Countersunk Washers	3/16 x 3/4 x 1/8
5	2	Hardened Ground Dowel Pin	3/8" x 2
6	1	Hex Nut	1/4-20 UNC
7	2	Linear Bearing	3/8 ID x 5/8 OD x 7/8"
9	1	Socket Head Cap Screw	1/4-20 UNC x 1
10	1	Raymond Spring	106-404 - Die Spring



- NOTES:
- 1 REMOVE PULL BLOCK ASSEMBLY (ITEMS: 2, 5 & 8) FROM MAIN ASSEMBLY.
- 2. REMOVE SPRING (ITEM 10) AND THEN INSPECT FOR CRACKS. REPLACE IF WORN OR CRACKED.
- 3. REMOVE WASHER (ITEM 4), TAKE NOTE OF ORIENTATION.
- 4. REMOVE TWO (2) SCREWS (ITEM 3) FROM MAIN ASSEMBLY, FROM ONE SIDE ONLY.
- 5. SLIDE OUT BEARING (ITEM 7), CHECK FOR WEAR AND EXCESS PLAY. REPLACE IF WORN.
- 6. INSPECT SLIDER PINS (ITEM 5) FOR WEAR. IF OUT OF TOLLERANCE, PRESS OUT AND REPLACE WITH NEW PINS.
- 7. REINSTALL BEARING (ITEM 7) AND THEN SCREWS (ITEM 3).
- 8. REINSTALL WASHER (ITEM 4) AND SPRING (ITEM 10), LUBRICATE WITH GENERAL PURPOSE, HEAVY-DUTY GREASE
- 9. REINSTALL PULL BLOCK ASSEMBLY (ITEMS: 2, 5 & 8) TO MAIN ASSEMBLY. LUBRICATE PINS WITH GENERAL PURPOSE, HEAVY-DUTY GREASE BEFORE ASSEMBLING. PULL BLOCK ASSEMBLY SHOULD FREELY MOVE IN MAIN ASSEMBLY.

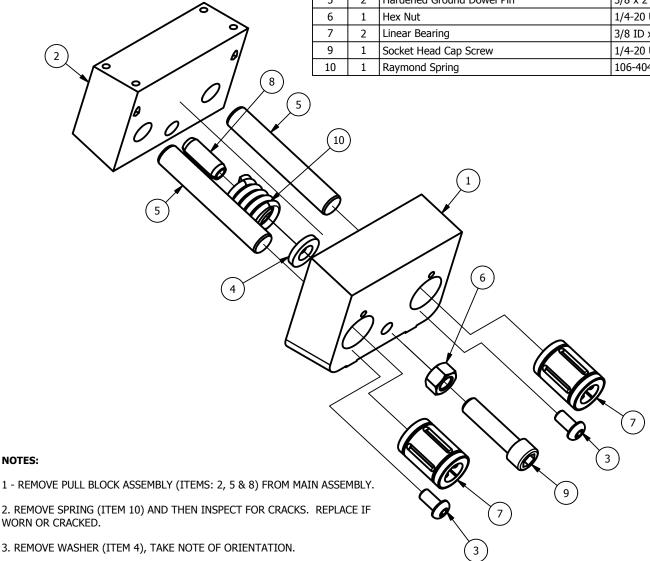
TIP: USE A LARGE RUBBER BAND OR ZIP-TYE TO HOLD THE TWO ASSEMBLIES TOGETHER UNTIL THE TOP PLATE HAS BEEN SECURED.



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LOW PROFILE SPRING BLOCK ASSEMBLY

PARTS LIST			
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	ANGLED END BLOCK - SPRING - LOW PROFILE	RoboShop-LP-008
2	1	ANGLED PULL BLOCK - LOW PROFILE	RoboShop-LP-007
3	4	Button Head Cap Screw	10-32 x 1/2"
4	1	Gibraltar - Countersunk Washers	3/16 x 3/4 x 1/8
5	2	Hardened Ground Dowel Pin	3/8 x 2"
6	1	Hex Nut	1/4-20 UNC
7	2	Linear Bearing	3/8 ID x 5/8 OD x 7/8"
9	1	Socket Head Cap Screw	1/4-20 UNC x 1"
10	1	Raymond Spring	106-404 - Die Spring

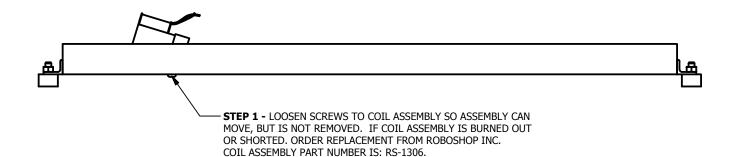


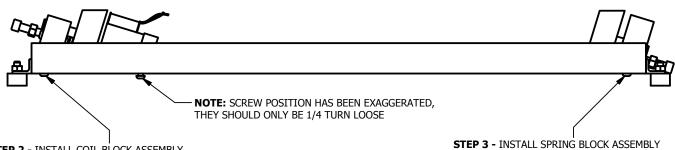
- 1 REMOVE PULL BLOCK ASSEMBLY (ITEMS: 2, 5 & 8) FROM MAIN ASSEMBLY.
- 2. REMOVE SPRING (ITEM 10) AND THEN INSPECT FOR CRACKS. REPLACE IF WORN OR CRACKED.
- 4. REMOVE TWO (2) SCREWS (ITEM 3) FROM MAIN ASSEMBLY, FROM ONE SIDE ONLY.
- 5. SLIDE OUT BEARING (ITEM 7), CHECK FOR WEAR AND EXCESS PLAY. REPLACE IF WORN.
- 6. INSPECT SLIDER PINS (ITEM 5) FOR WEAR. IF OUT OF TOLLERANCE, PRESS OUT AND REPLACE WITH NEW PINS.
- 7. REINSTALL BEARING (ITEM 7) AND THEN SCREWS (ITEM 3).
- 8. REINSTALL WASHER (ITEM 4) AND SPRING (ITEM 10), LUBRICATE WITH GENERAL PURPOSE, HEAVY-DUTY GREASE
- 9. REINSTALL PULL BLOCK ASSEMBLY (ITEMS: 2, 5 & 8) TO MAIN ASSEMBLY. LUBRICATE PINS WITH GENERAL PURPOSE, HEAVY-DUTY GREASE BEFORE ASSEMBLING. PULL BLOCK ASSEMBLY SHOULD FREELY MOVE IN MAIN ASSEMBLY.
- TIP: USE A LARGE RUBBER BAND OR ZIP-TYE TO HOLD THE TWO ASSEMBLIES TOGETHER UNTIL THE TOP PLATE HAS BEEN SECURED.

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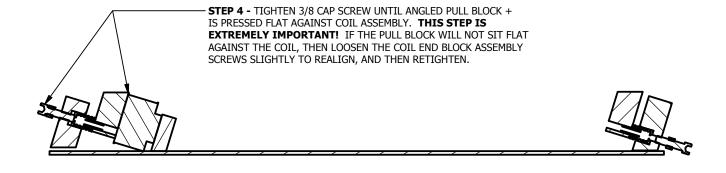
ASSEMBLY AND TUNING INSTRUCTIONS

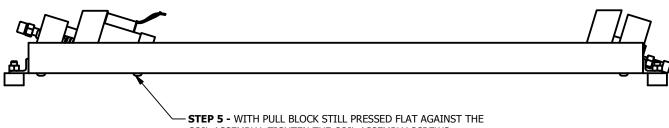




STEP 2 - INSTALL COIL BLOCK ASSEMBLY
AND TIGHTEN BOTH BOTTOM SCREW. THE
3/8" CAP SCREW SHOULD BE LOOSE RIGHT NOW.

STEP 3 - INSTALL SPRING BLOCK ASSEMBLY AND TIGHTEN BOTH BOTTOM SCREW. THE 3/8" CAP SCREW SHOULD BE LOOSE RIGHT NOW.



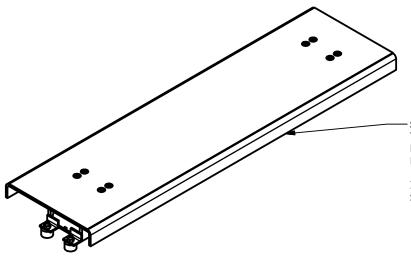


- STEP 5 - WITH PULL BLOCK STILL PRESSED FLAT AGAINST THE COIL ASSEMBLY, TIGHTEN THE COIL ASSEMBLY SCREWS.

AFTERWARD, BACK THE 3/8 CAP SCREW OFF SO THAT BOTH PULL BLOCKS (COIL AND SPRING SIDE) CAN MOVE FREELY AGAIN.

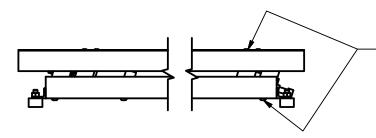
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ASSEMBLY AND TUNING INSTRUCTIONS



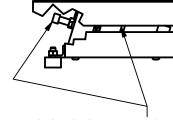
STEP 6 - WITH BOTH 3/8 CAP SCREWS STILL LOOSE, INSTALL THE TOP PLATE USING 10-32 BUTTON HEAD SCREWS. ONCE THE TOP PLATE HAS BEEN INSTALLED IT SHOULD FREELY MOVE BACK AND FORTH 1/8".

IF THE TOP PLATE BINDS AND WILL NOT MOVE FREELY, GO TO STEP 6B. OTHERWISE, CONTINUE WITH STEP 7.



• STEP 6B - IF THE TOP WILL NOT MOVE FREELY OR DOES NOT LINE UP WITH THE HOLES:

LOOSEN THE 10-32 BUTTON HEAD SCREW, ALSO LOOSEN THE 1/4-20 BUTTON HEAD SCRWS HOLDING THE SPRING BLOCK ASSEMBLY. REALIGN ALL, AND THEN RETIGHTEN ALL. CHECK AGAIN TO SEE IF TOP PLATE WILL MOVE FREELY.



STEP 7 - ONCE TOP CAN FREELY MOVE. TIGHEN COIL SIDE COMPRESSION SCREW IN BY HAND UNTIL PULL BLOCK TOUCHES COIL FACE. THEN TURN ADDITIONAL 1/2 TURN WITH WRENCH. TIGHTEN LOCK NUT.

STEP 8 - TIGHEN SPRING SIDE COMPRESSION SCREW IN BY HAND UNTIL PULL BLOCK TOUCHES COIL FACE. THEN TURN ADDITIONAL 2 1/2 TO 3 FULL TURN WITH WRENCH. THIS WILL SET THE COIL GAP AT .080" TO .100" ~ INITIAL MECHANICAL TUNING. TIGHTEN LOCK NUT WHEN UNIT IS TUNED.

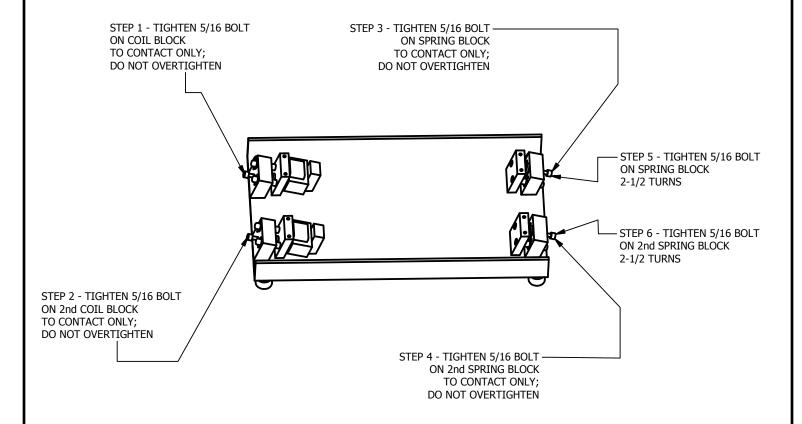
NOTE: FINE TUNING MAY BE REQUIRED AFTER TESTING UNDER POWER. FINE TUNING SHOULD BE DONE WITH THE SPRING SIDE COMPRESSION SCREW.

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ASSEMBLY AND TUNING INSTRUCTIONS for DUAL COIL UNITS

NOTE: FEEDER TOP NOT SHOWN FOR CLARITY



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