

Assembly Instructions

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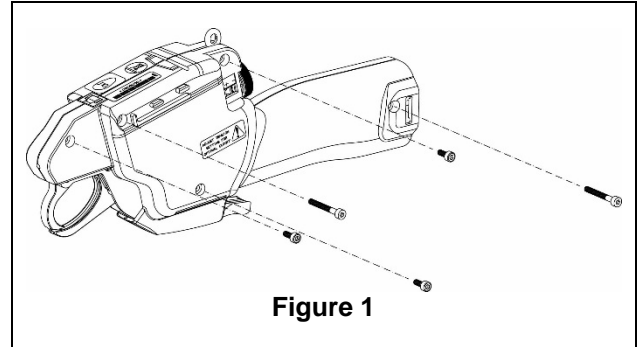


NOTE: In the interest of higher quality and value, Panduit products are continually being improved and updated. Consequently, pictures may vary from the enclosed product.

(Reference diagrams on following pages for further detail.)

NOTE: Reference video also available at: www.panduit.com

1. Remove 5 Screws from the left side plastic housing of PAT tool.

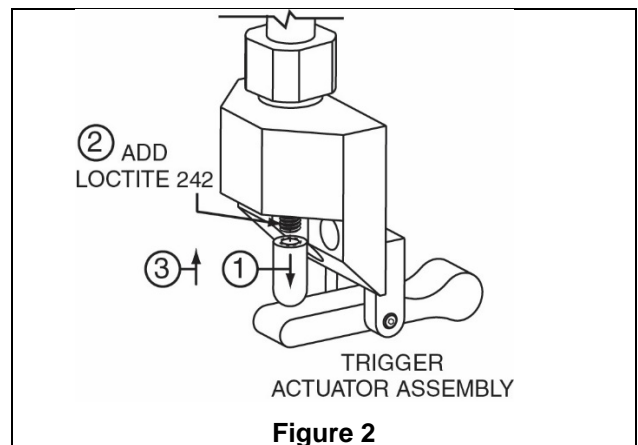


2. Remove left plastic housing.
3. Remove one screw from the right side housing.
4. Remove internal tool assembly.
5. Slide connector plate onto rear connector of internal tool assembly.
6. Loosely attach four supplied screws to the rear of the aluminum robotic housings.
7. Slide connector plate over rear screws in right side housing and position internal tool assembly in housing, making sure membrane switch is in designated pocket of housing.
8. Place left side housing onto right side housing, making sure rear screws are aligned with connector plate and membrane switch fits into pocket in housing.
9. Install five housing screws on left housing side and tighten.
10. Tighten four connector plate screws on rear of tool assembly.

11. Install one screw on right side housing. Take trigger actuator assembly and unscrew cylinder tip far enough to add one drop of Loctite®.

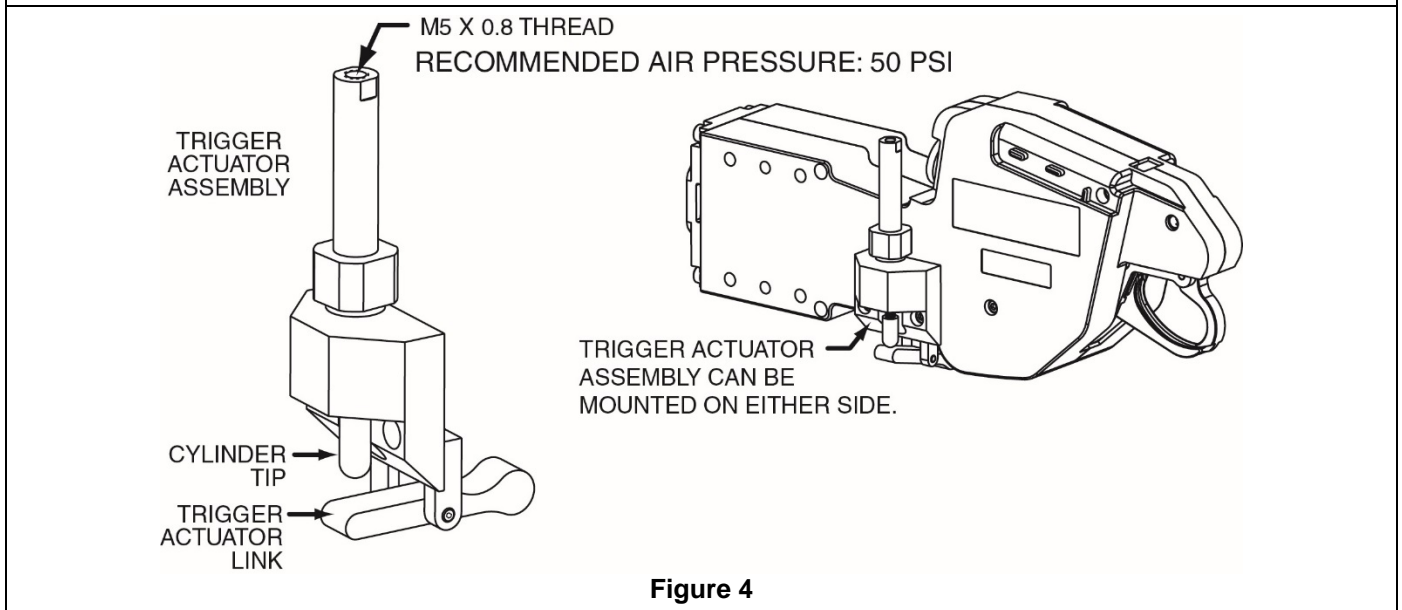
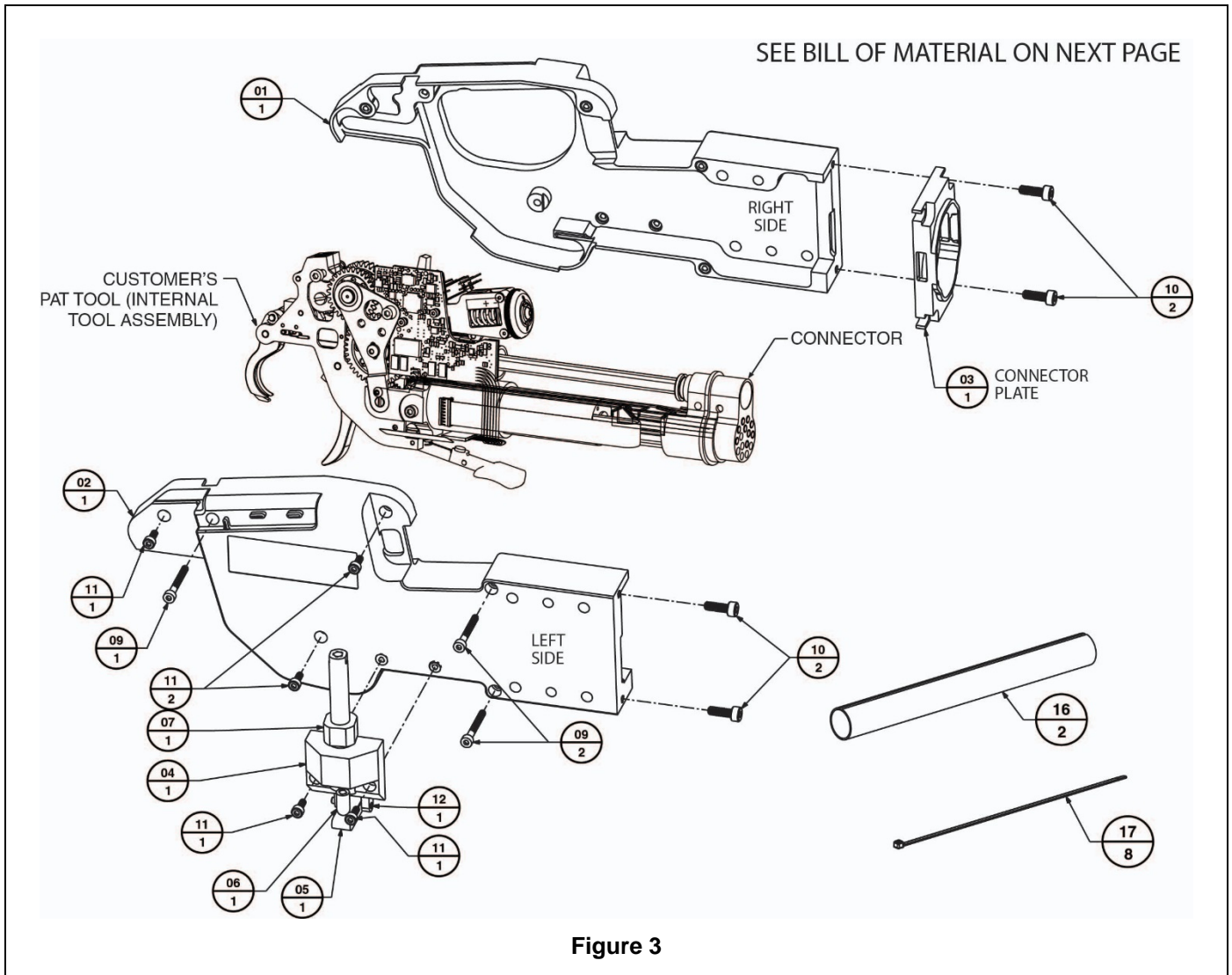
NOTE: The next few steps must be done in a timely fashion to ensure Loctite® does not dry before completion.

12. Apply Loctite® #242 (supplied with kit).
13. Screw cylinder tip back onto cylinder.



14. Attach trigger actuator assembly to left or right side of tool housings (customer preference) with two screws supplied, making sure actuator link is above trigger.
15. Adjust cylinder tip to remove almost all excessive motion in actuator link.
16. Allow Loctite® to dry for 120 minutes.
17. Tool is now ready to install on robot.
18. Reinstall the tip collector on the new aluminum housing. Note that the tip collector needs to be manually emptied every 128 cycles to avoid jamming tie waste in the tool.

Loctite® is a registered trademark of the Henkel Corporation



| ITEM | QTY | DESCRIPTION |
|---|-----|----------------------------|
| 01 | 1 | HOUSING, LEFT PAT1M ROBOT |
| 02 | 1 | HOUSING, RIGHT PAT1M ROBOT |
| 03 | 1 | PLATE, CONNECTOR |
| 04 | 1 | BRACKET CYLINDER |
| 05 | 1 | TRIGGER ACTUATOR LINK |
| 06 | 1 | CYLINDER TIP |
| 07 | 1 | CYLINDER AIR BIMBA |
| * 08 | 9 | INSERT, THREADING SYSTEM |
| 09 | 3 | SCREW, HSHC*M3 x 25mm |
| 10 | 4 | SCREW, HSHC*M4 x 12mm |
| 11 | 6 | SCREW, HSHC*M3 x 8mm |
| 12 | 1 | SCREW, SHOULDER #4-40 |
| ** 13 | 2 | PIN, DOWEL M5 x 20mm |
| * 14 | 2 | LABEL, PANDUIT |
| * 15 | 1 | LOCTITE 242 |
| 16 | 2 | HOSE, STRAIN RELIEF |
| 17 | 8 | 2S CABLE TIES |
| * NOT SHOWN ON DRAWING | | |
| ** NOT SHOWN ON DRAWING. USED BY INTEGRATOR TO LOCATE WITH ROBOT ADAPTER. | | |

Other Components Needed for Successful Integration (to be Supplied by the Integrator):

Mechanical Components:

1. Pneumatic fitting for the air cylinder that actuates the trigger switch.
The air cylinder has a M5 X 0.8 female port (recommended air pressure: 50 PSI).
2. M5 Bolt x 70 mm recommended length (for mounting tool to robot adapter).
3. Adapter between robot and tool (see Figure 5 on Page 4 for hole pattern on tool; and Figure 6 on Page 5 for examples of adapters that could be used).
4. Support structure for PHM hose (see Figure 7 on Page 5 for an example of what could be used). While the support structure for the PHM hose is not necessary in all applications, it is ideal for situations where the tool/hose will move/rotate in multiple directions.

See PATM4.0-RK/PATM-TT “Best Practices” for Successfully Integrating PAT4.0 Systems with a Robot, document # PA28173A01.

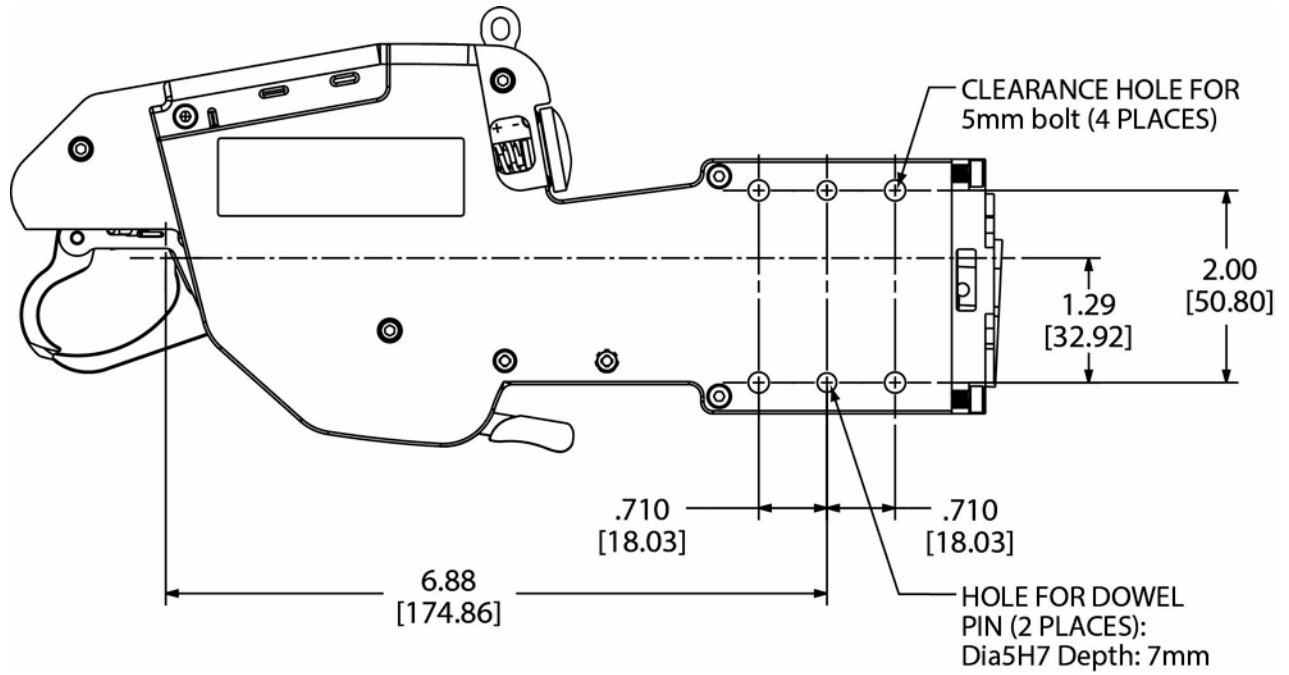
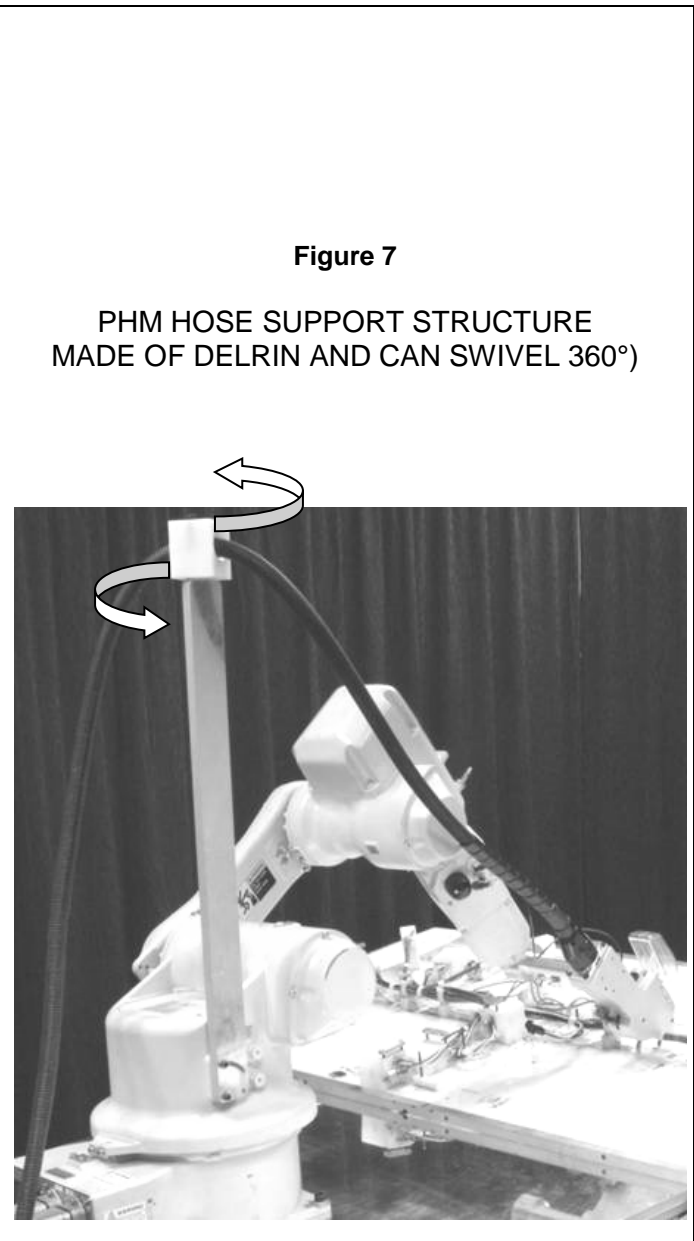
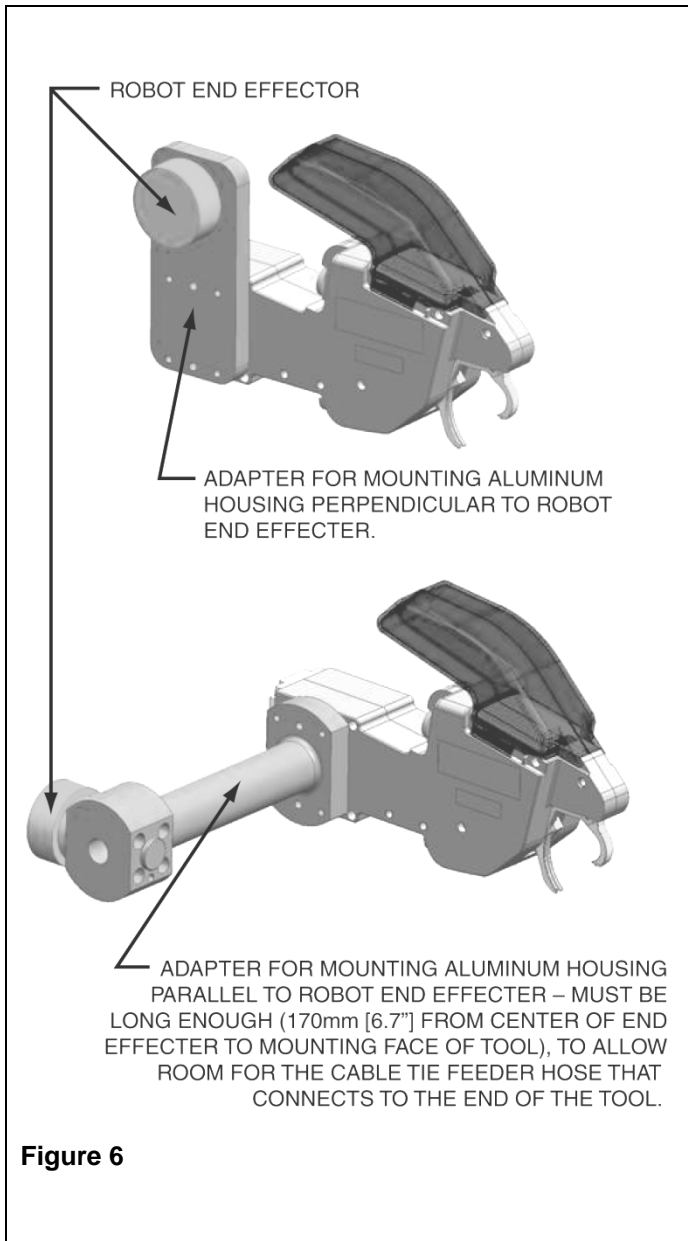


Figure 5

HOLE PATTERN DIAGRAM
DIMENSIONS IN [] ARE METRIC



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