

| Rev. | Description  | Initiator | Date      |
|------|--|-----------|-----------|
| 07   | ECO 17877: Sheet 4: Updated part number from 9005-20-1948 to 9005-20-1949. | MLS       | 4/17/2019 |



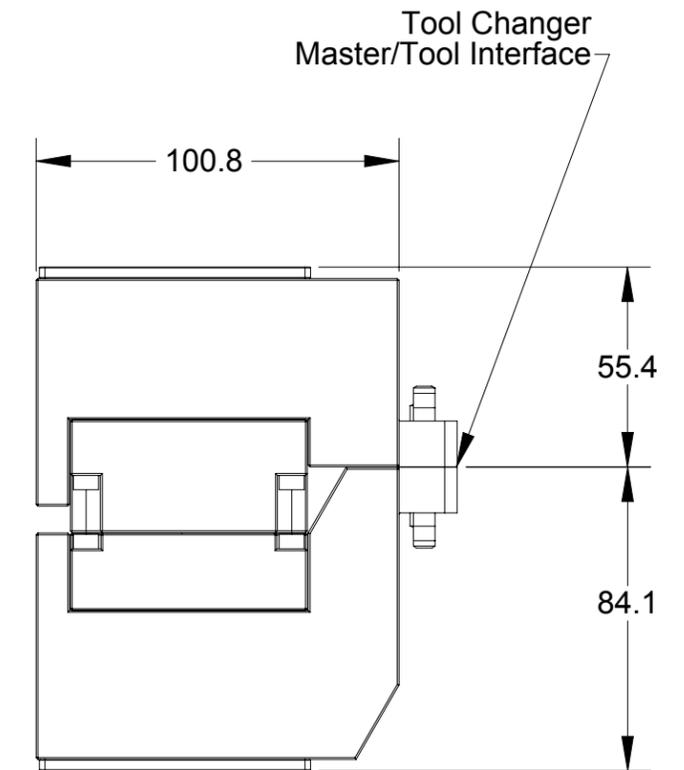
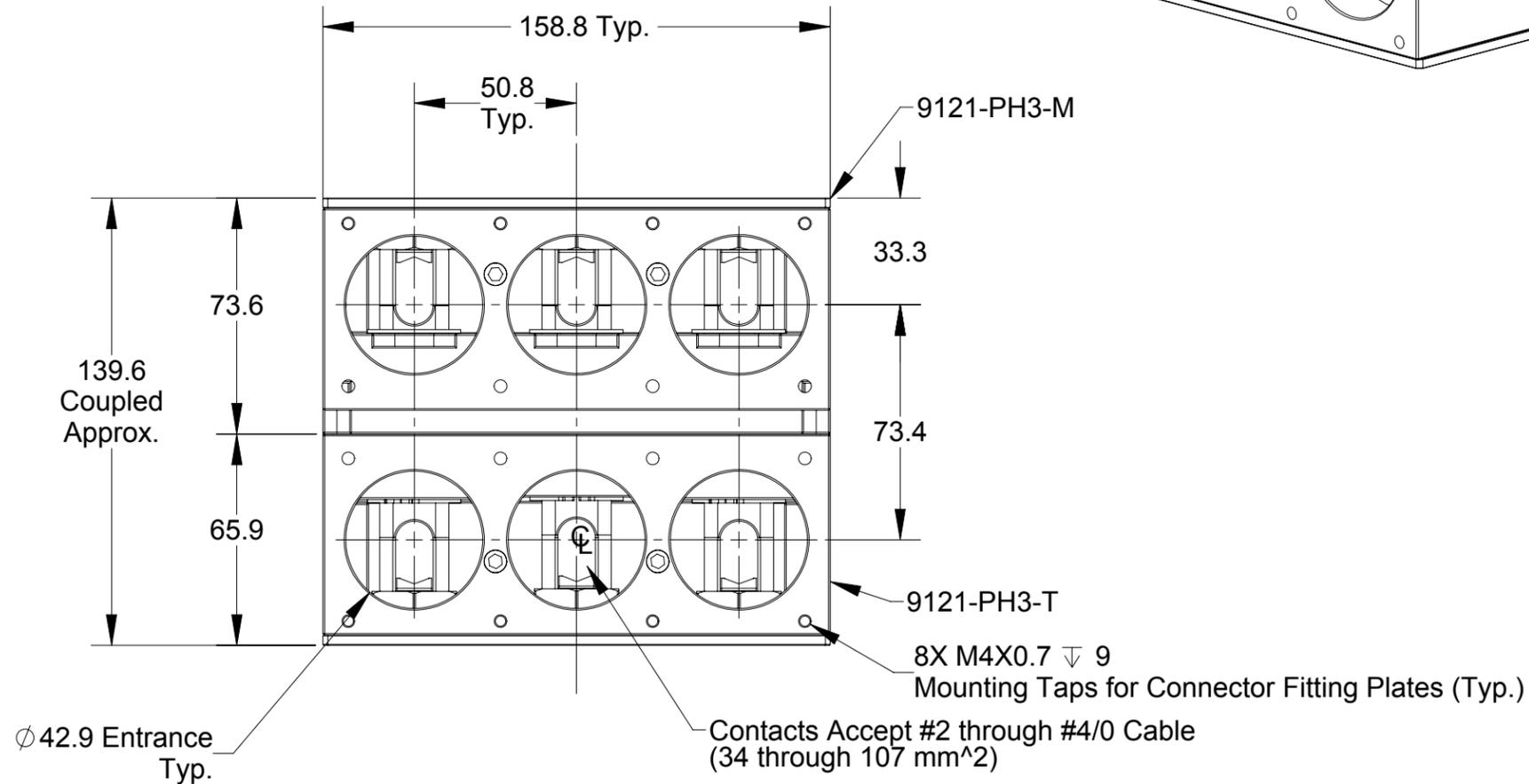
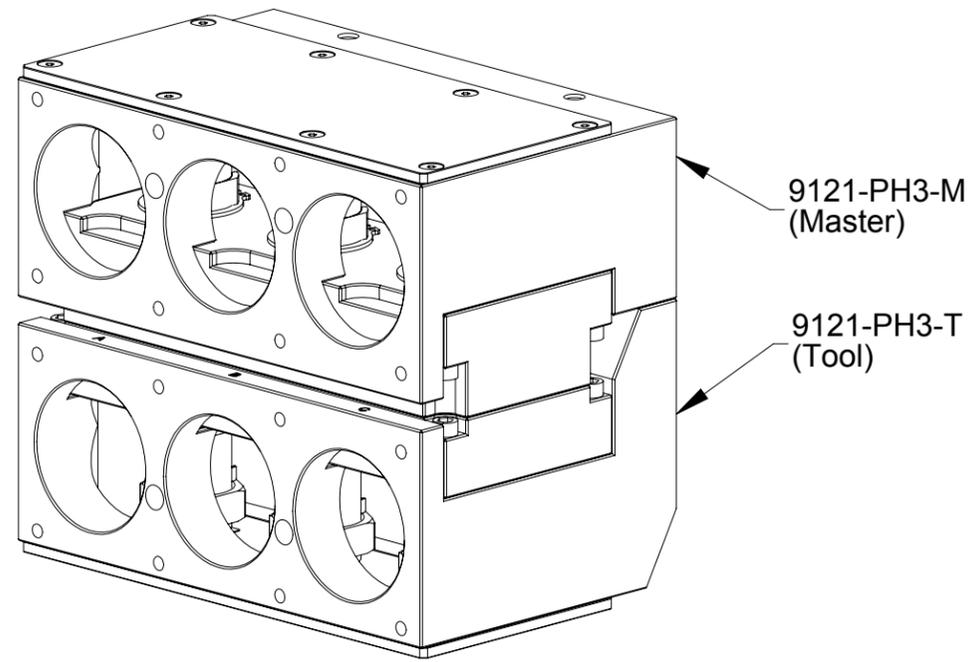
**"DANGER!" - Electrical Shock Hazard**

This module has a Voltage of 50V or greater, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components.

**Caution:** The use of stiff heavy stranded cables can cause improper operation of the module by preventing compliant motion of its contacts. ATI requires the customer supplied cables be of the high-flex type with fine stranding to allow contact motion.

**Operation:**

1. Do not couple or uncouple modules unless electrical power has been disconnected and discharged both upstream and downstream.
2. The installation of over-current protection in the primary power supply circuit is recommended.
3. For best results ensure contacts are free of debris.



**Notes:**

1. Modules accept #2 AWG thru #4/0 AWG cable.
2. Contacts are rated for 600A, 800V
3. Contact spring forces are high. The robot must drive the master and tool together prior to lock.
4. Connector plate assemblies are ordered separately.

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.



3rd ANGLE PROJECTION

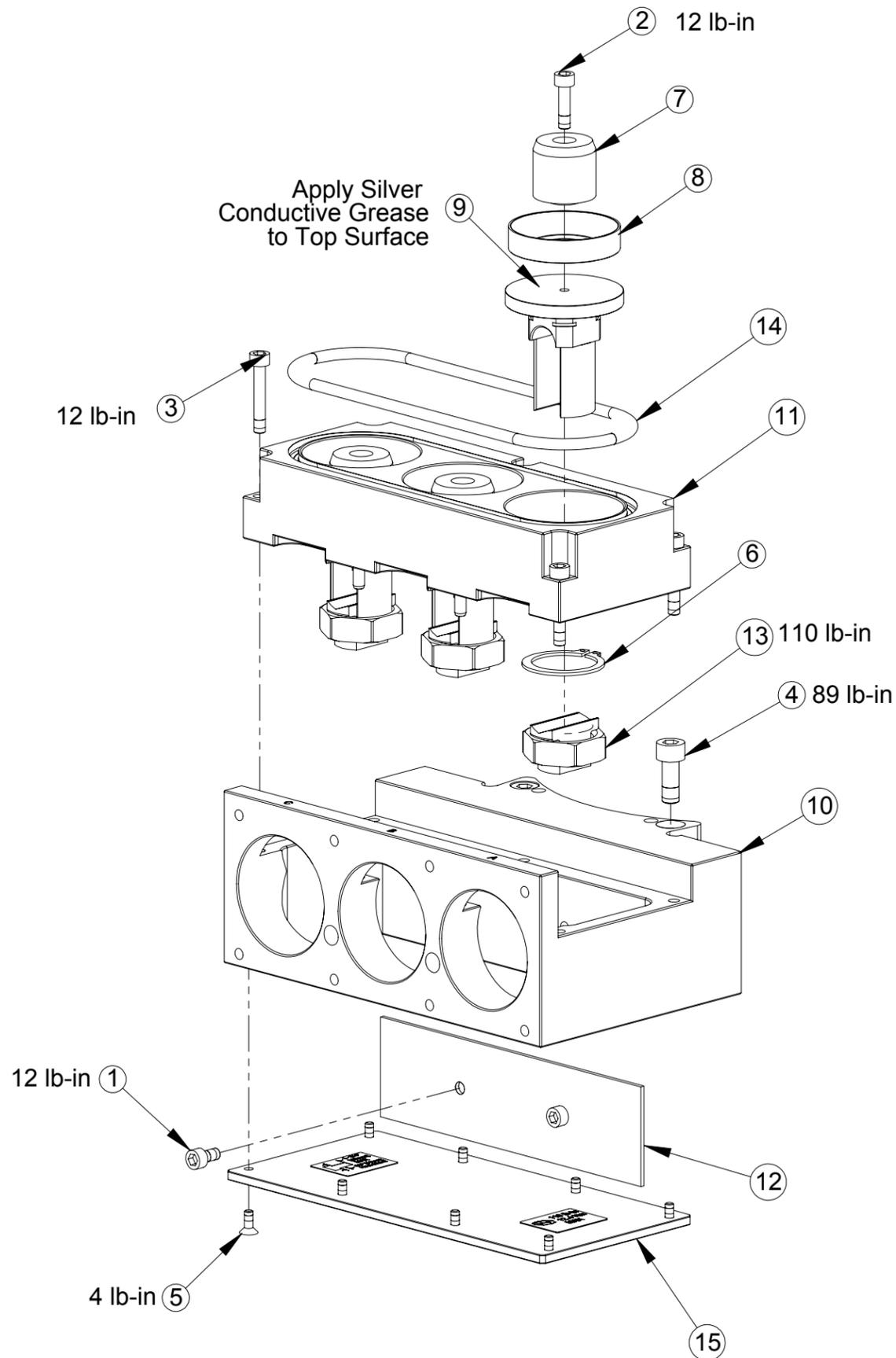


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|                                |              |                            |             |
|--------------------------------|--------------|----------------------------|-------------|
| DRAWN BY: D.Lawson, 2/10/12    |              | TITLE                      |             |
| CHECKED BY: D.Swanson, 2/13/12 |              | PH3 Module Drawing         |             |
| PROJECT # 111118-1             | SHEET 1 OF 4 | SCALE 1:2                  | SIZE B      |
|                                |              | DRAWING NUMBER 9630-20-PH3 | REVISION 07 |

# PH3 Master



## 9121-PH3-M Master Side Assembly Parts

| ITEM NO. | QTY. | PART NUMBER      | DESCRIPTION  |
|----------|------|------------------|--|
| 1        | 2    | 3500-1062008-15A | M4-0.7 x 8mm SHCS, Blue, Pre-Applied                       |
| 2        | 3    | 3500-1062016-15A | M4-0.7 x 16mm SHCS, Blue, Pre-Applied                      |
| 3        | 5    | 3500-1062025-15A | M4-0.7 x 25mm SHCS, Blue, Pre-Applied                      |
| 4        | 2    | 3500-1066016-15A | M6-1 x 16mm SHCS, Blue, Pre-Applied                        |
| 5        | 8    | 3500-1258008-15A | M3 x 8mm SFHCS Blue Dyed Magni-565 w/ND Microspheres Epoxy |
| 6        | 3    | 3690-7500001-11  | Retaining Ring, 1" Alloy                                   |
| 7        | 3    | 3700-20-2582     | CENTER INSULATOR, HA6                                      |
| 8        | 3    | 3700-20-2583     | MASTER CONTACT, HA6  |
| 9        | 3    | 3700-20-2584     | MASTER CONTACT BASE, HA6                                   |
| 10       | 1    | 3700-20-7412     | PH3 Housing, Master  |
| 11       | 1    | 3700-20-7413     | PH3 Contact Carrier, Master                                |
| 12       | 1    | 3700-20-7420     | PH3 Back Wall Insulator                                    |
| 13       | 3    | 3700-20-10932    | SPLIT-BOLT CABLE CLAMP                                     |
| 14       | 1    | 9005-20-1952     | PH3-M Tubular Seal, 4mm                                    |
| 15       | 1    | 9005-20-1953     | PH3 Housing Cover Assembly                                 |

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3rd ANGLE PROJECTION

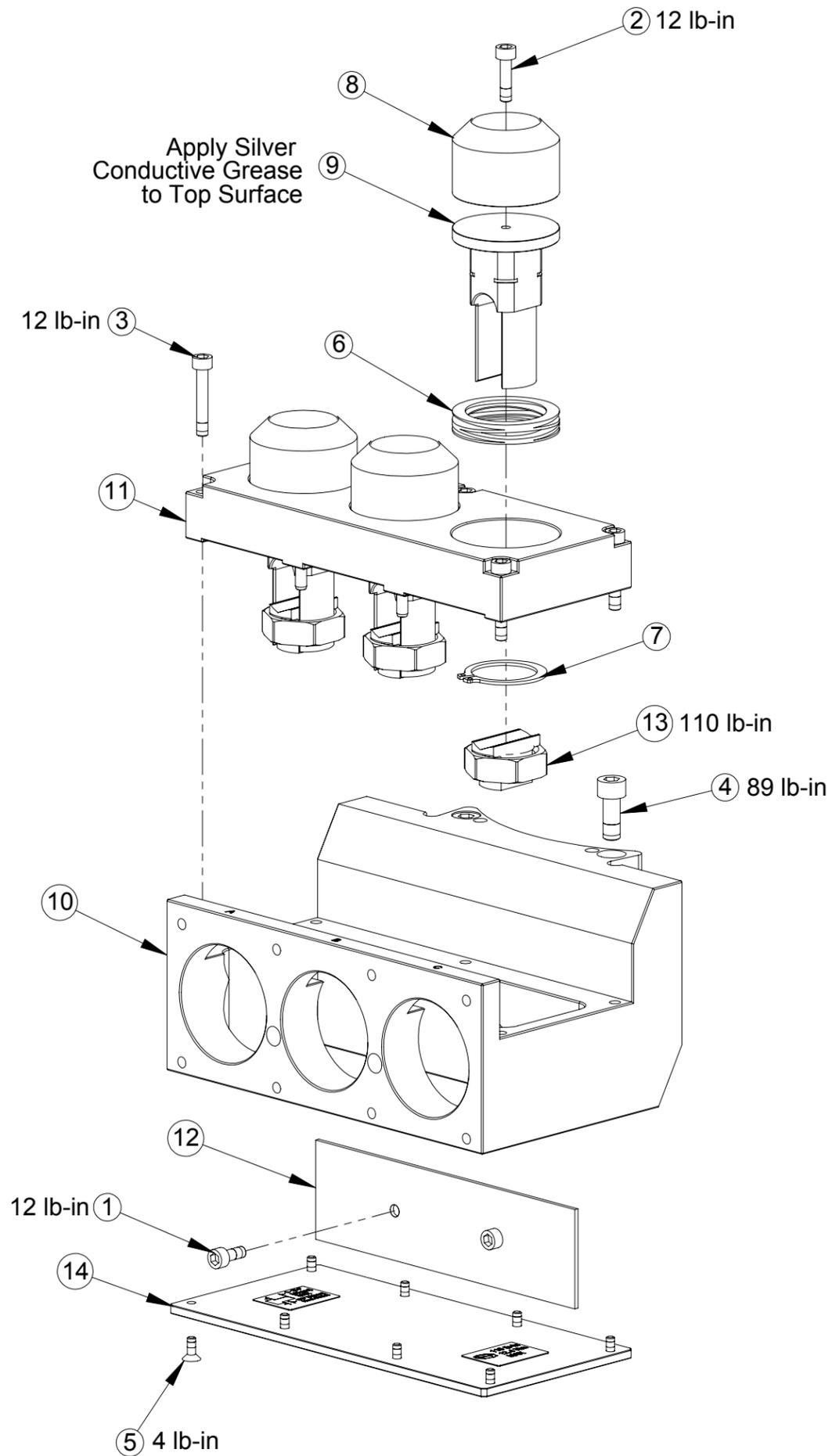


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|--------------------------------|--------------|--------------------|--------|----------------------------|
| DRAWN BY: D.Lawson, 2/10/12    |              | TITLE              |        |                            |
| CHECKED BY: D.Swanson, 2/13/12 |              | PH3 Module Drawing |        |                            |
| PROJECT # 111118-1             | SHEET 2 OF 4 | SCALE 1:2          | SIZE B | DRAWING NUMBER 9630-20-PH3 |
|                                |              |                    |        | REVISION 07                |

# PH3 Tool



## 9121-PH3-T Tool Side Assembly Parts

| ITEM NO. | QTY. | PART NUMBER      | DESCRIPTION  |
|----------|------|------------------|--|
| 1        | 2    | 3500-1062010-15A | M4-0.7 x 10mm SHCS, Blue, Pre-Applied                      |
| 2        | 3    | 3500-1062016-15A | M4-0.7 x 16mm SHCS, Blue, Pre-Applied                      |
| 3        | 5    | 3500-1062025-15A | M4-0.7 x 25mm SHCS, Blue, Pre-Applied                      |
| 4        | 2    | 3500-1066016-15A | M6-1 x 16mm SHCS, Blue, Pre-Applied                        |
| 5        | 8    | 3500-1258008-15A | M3 x 8mm SFHCS Blue Dyed Magni-565 w/ND Microspheres Epoxy |
| 6        | 3    | 3610-8801301-21  | WAVE SPRING, 1.5ODx1.15ID                                  |
| 7        | 3    | 3690-7500001-11  | Retaining Ring, 1" Alloy                                   |
| 8        | 3    | 3700-20-2592     | TOOL CONTACT, HA6  |
| 9        | 3    | 3700-20-2593     | TOOL CONTACT BASE, HA6                                     |
| 10       | 1    | 3700-20-7414     | PH3 Housing, Tool  |
| 11       | 1    | 3700-20-7415     | PH3 Contact Carrier, Tool                                  |
| 12       | 1    | 3700-20-7420     | PH3 Back Wall Insulator                                    |
| 13       | 3    | 3700-20-10932    | SPLIT-BOLT CABLE CLAMP                                     |
| 14       | 1    | 9005-20-1953     | PH3 Housing Cover Assembly                                 |

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CHECKED BY: D.Swanson, 2/13/12

TITLE

PH3 Module Drawing

PROJECT # 111118-1 SHEET 3 OF 4

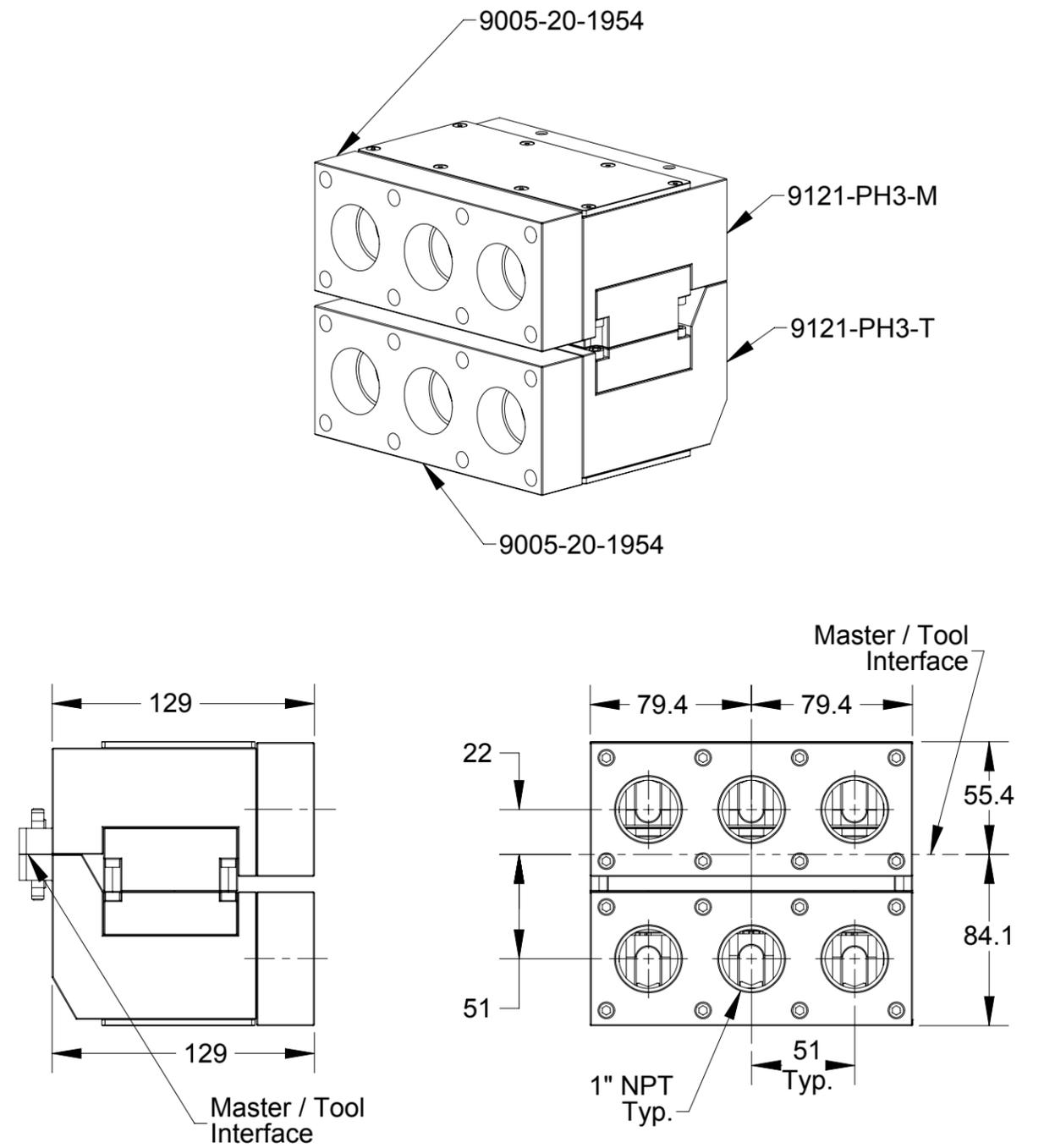
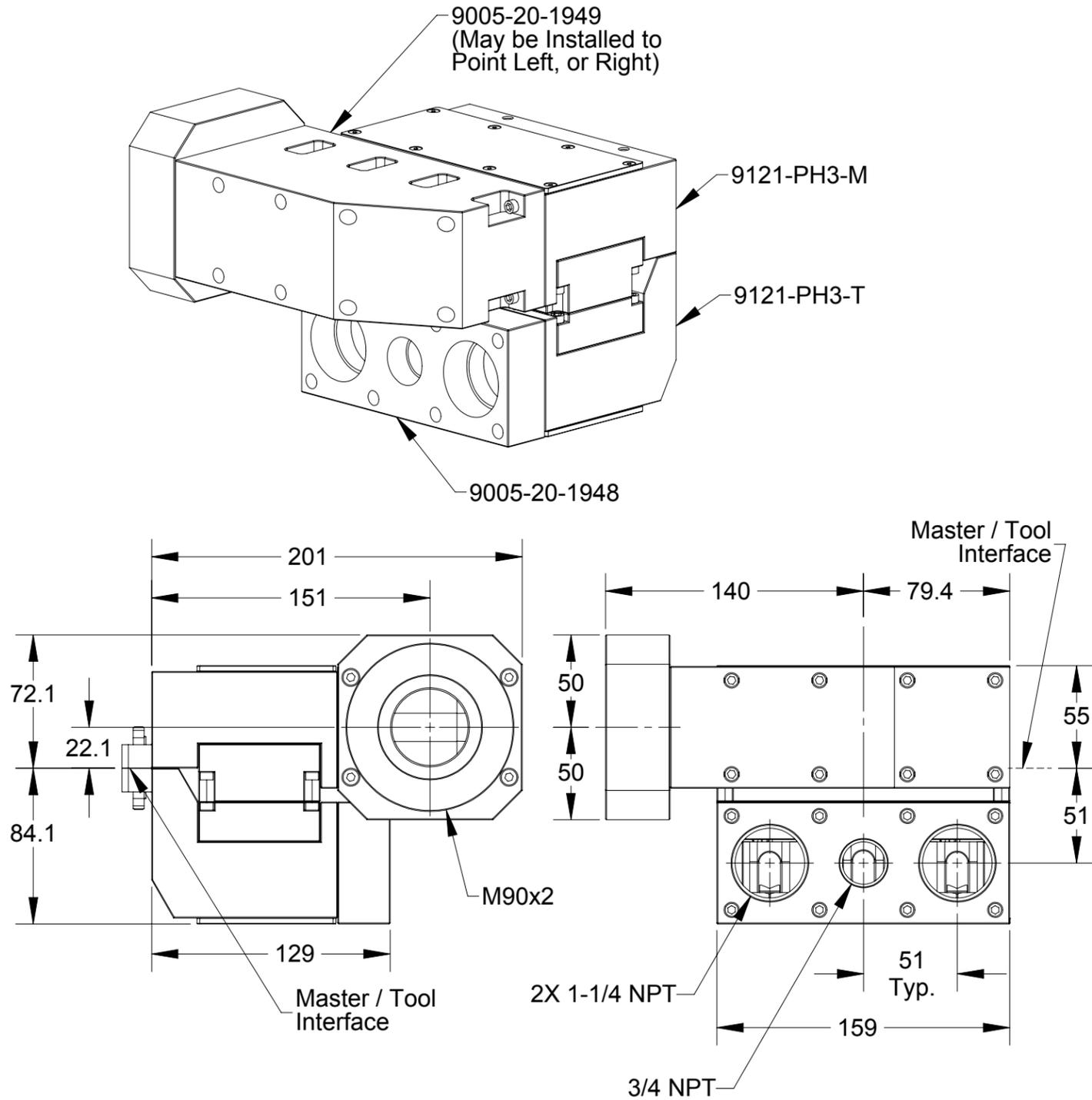
SCALE  
1:2

SIZE  
B

DRAWING NUMBER  
9630-20-PH3

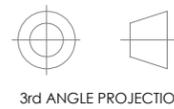
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# Example Optional Connector Fitting Plates



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CHECKED BY: D.Swanson, 2/13/12

PROJECT # 111118-1 SHEET 4 OF 4

TITLE

PH3 Module Drawing

SCALE  
1:3

SIZE  
B

DRAWING NUMBER  
9630-20-PH3

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