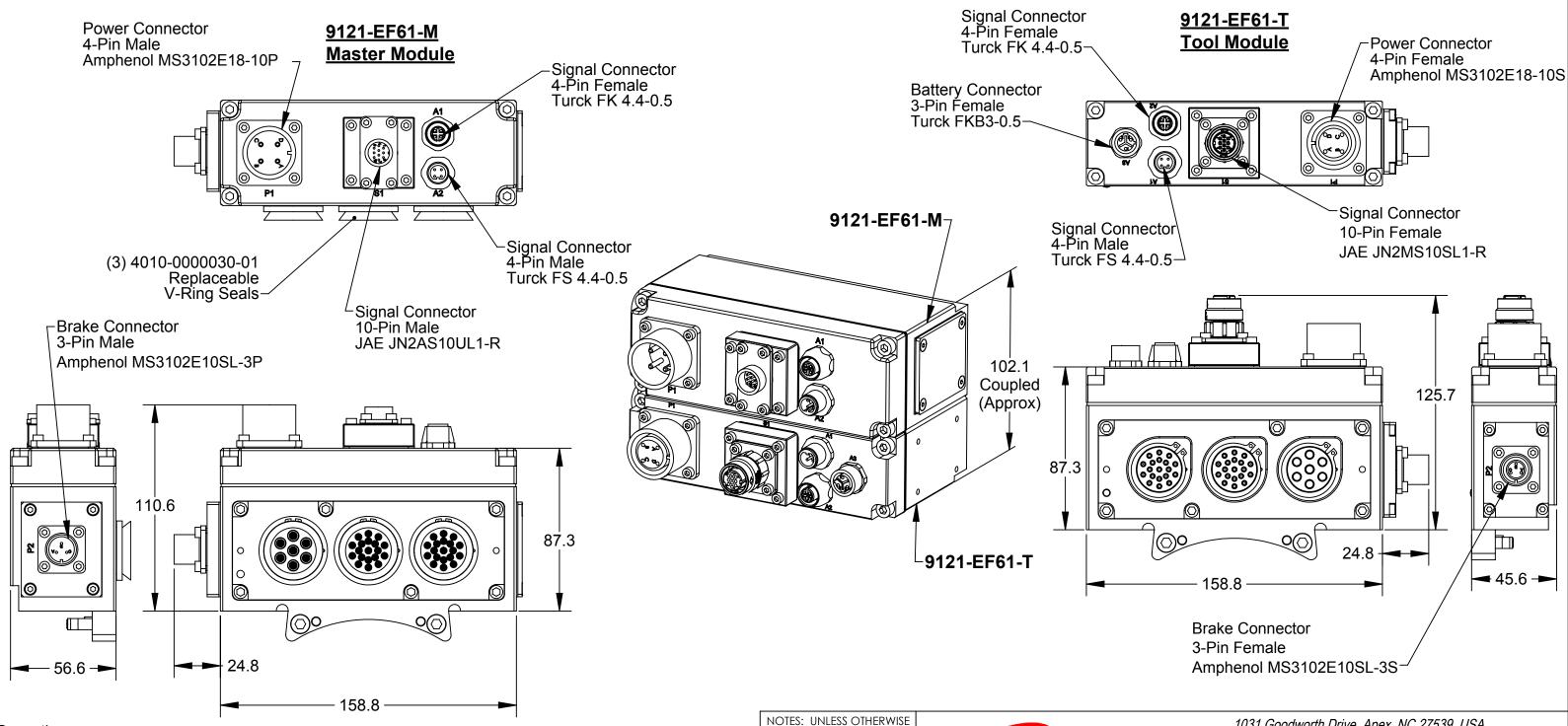
## "DANGER!" - Electrical Shock Hazard

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.





SPECIFIED.

MILLIMETERS.

Operation:

- Do not couple or uncouple the servo modules unless electrical power has been disconnected and
- discharged both upstream and downstream from the modules.

  Warning: The battery voltage is connected to the exposed contacts 2 and 3 on the pinblock of the 9121-EF61-T module. A short circuit on these pins can cause permanent damage to the module. Avoid touching the pin-block with metal objects.
- 1. See Sheet 2&3 for detailed information regarding the EF61 Master and Tool Module Connectors and Pin Block.
- 2. See Sheet 4 for detailed EF61 Module Electrical Schematic and Electrical Rating.



DRAWN BY: R.Robinson 01/09/19

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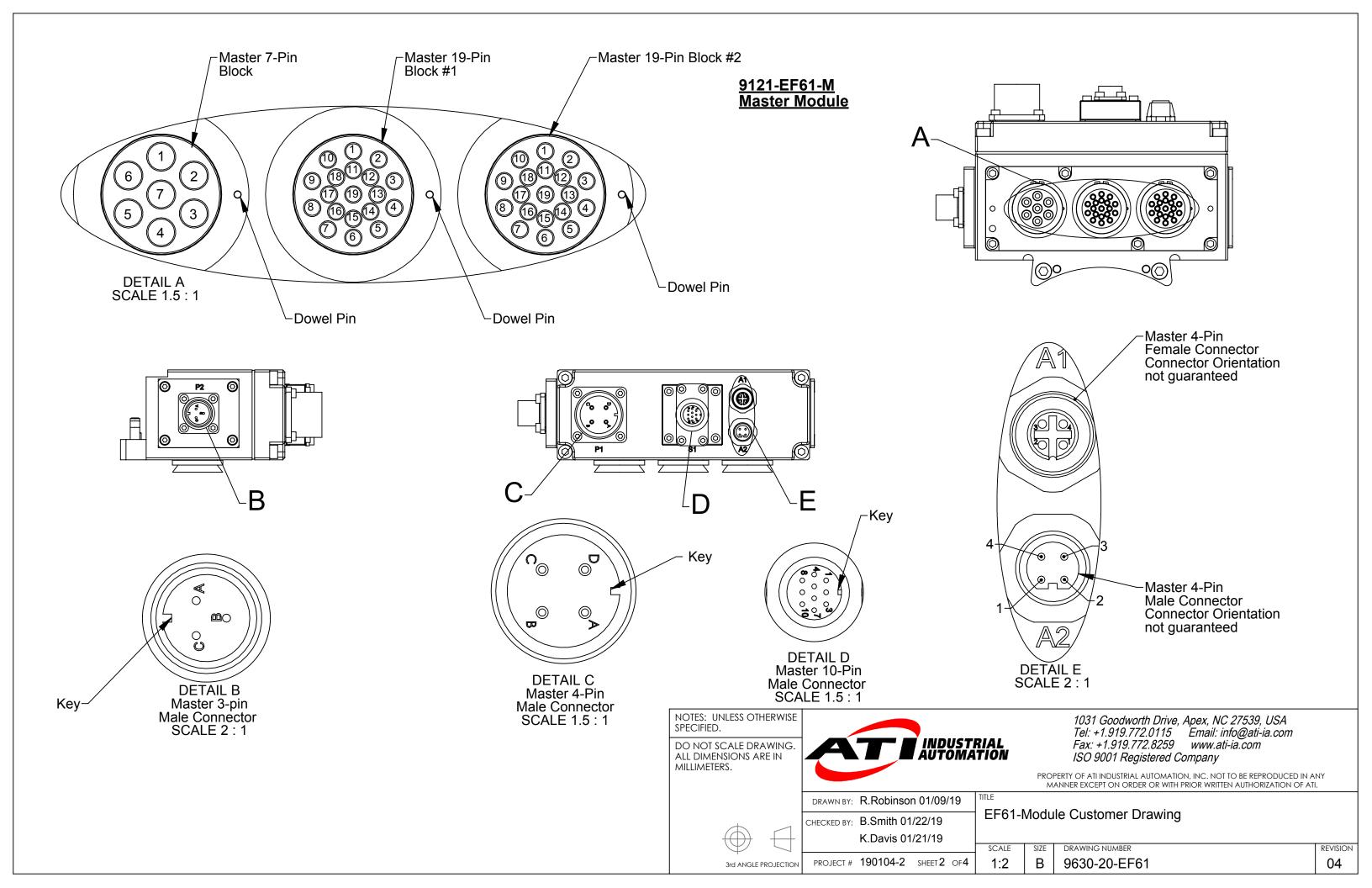
3rd ANGLE PROJECTION

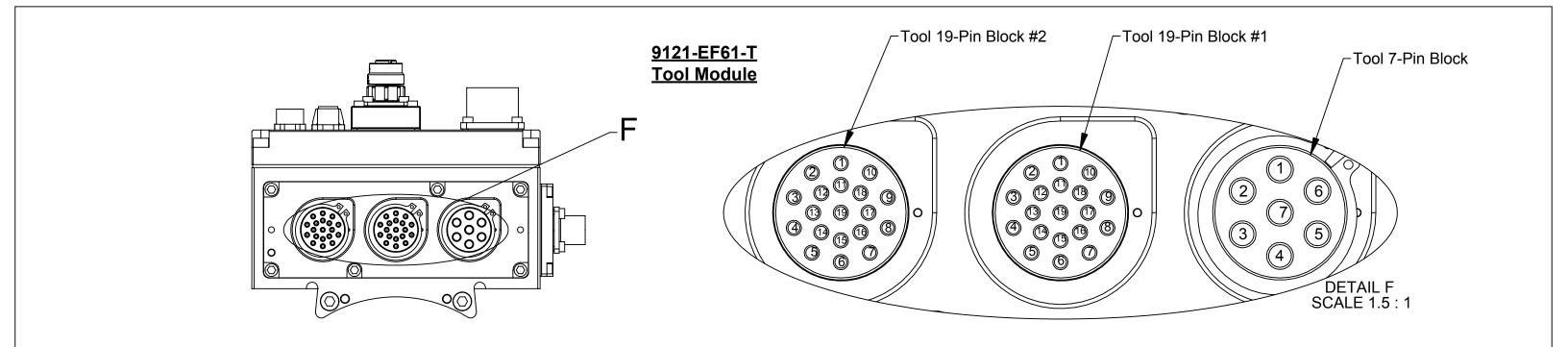
CHECKED BY: B.Smith 01/22/19 K.Davis 01/21/19 **EF61-Module Customer Drawing** 

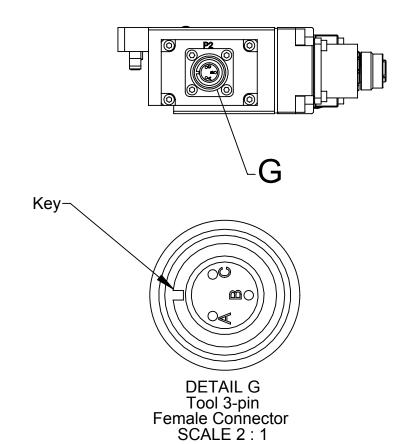
PROJECT # 190104-2 SHEET 1 OF 4 1:2

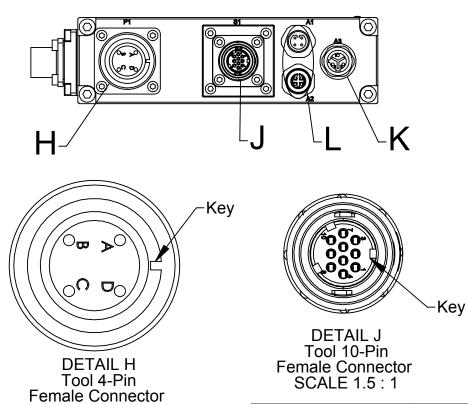
DRAWING NUMBER SCALE

В 9630-20-EF61 REVISION 04

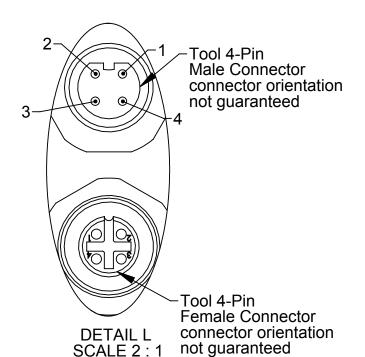


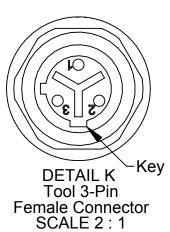






SCALE 1.5:1





NOTES: UNLESS OTHERWISE SPECIFIED.

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3rd ANGLE PROJECTION

DRAWN BY: R.Robinson 01/09/19

CHECKED BY: B.Smith 01/22/19
K.Davis 01/21/19

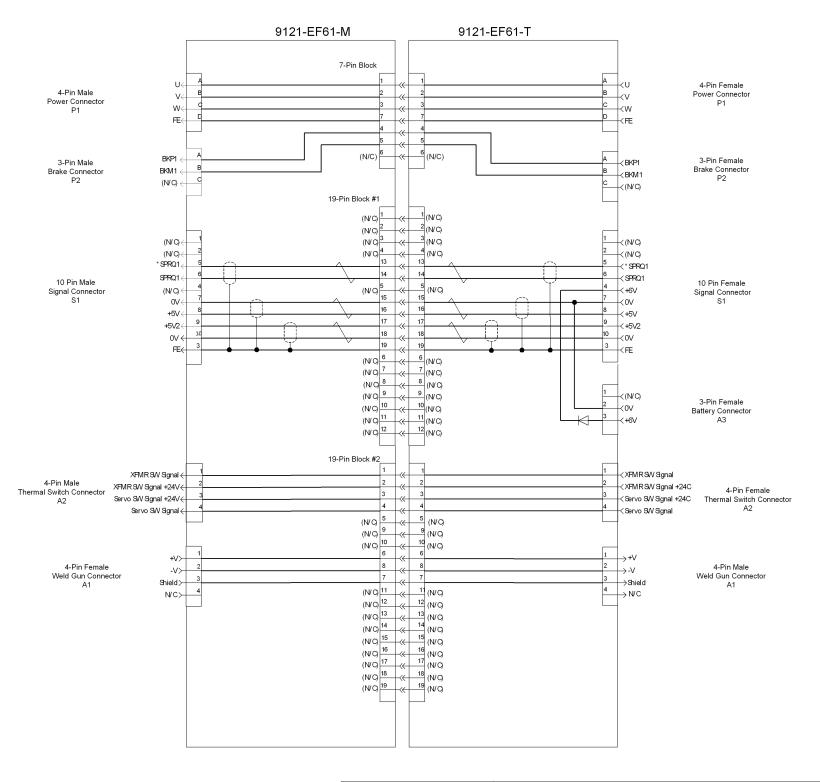
PROJECT # 190104-2 SHEET 3 OF 4

SCALE SIZE DRAWING NUMBER

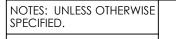
1:2 B 9630-20-EF61

**EF61-Module Customer Drawing** 

REVISION 04



- Pin 7 for the 7-Pin block and Pin 19 for the 19-Pin Blocks are the first-to-mate and last-to-break contact and are recommended as ground.
- The 3-Pin Amphenol connector power pass-through is rated to 13A, 500VAC maximum. The 4-Pin Amphenol connector power pass-through is rated to 13A, 500VAC maximum.
- The 10-Pin JAE connector signal pass-through is rated to 3A, 200VAC maximum. The 4-Pin Turck connector signal pass through is rated to 4A, 250VAC maximum.
- The 3-Pin Turck connector battery pass-through is rated to 4A, 250VDC. A remotely mounted servo battery backup box is required to maintain the servo settings during periods when the tool is not in use. ATI 9005-20-1257 (not included) can be used for this purpose. ATI cable 9120-C-3UM-3UF-010 (not included) can be used to connect the EF61 Tool Module to the 9005-20-1257 battery backup box. Reference ATI drawing 9230-20-2171.



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3rd ANGLE PROJECTION

1	CHECKE
$\Box$	

DRAWN BY: R.Robinson 01/09/19 **EF61-Module Customer Drawing** ED BY: B.Smith 01/22/19

K.Davis 01/21/19 SCALE PROJECT # 190104-2 SHEET 4 OF 4 1:2

В 9630-20-EF61

DRAWING NUMBER

REVISION

04