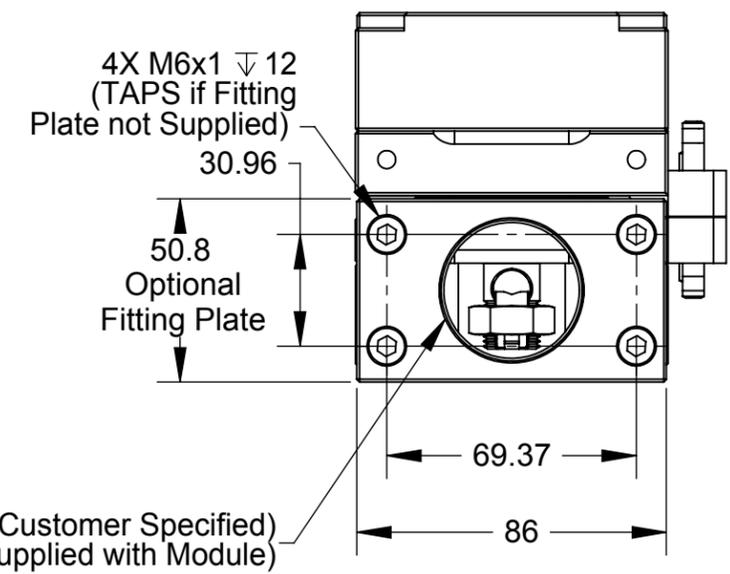
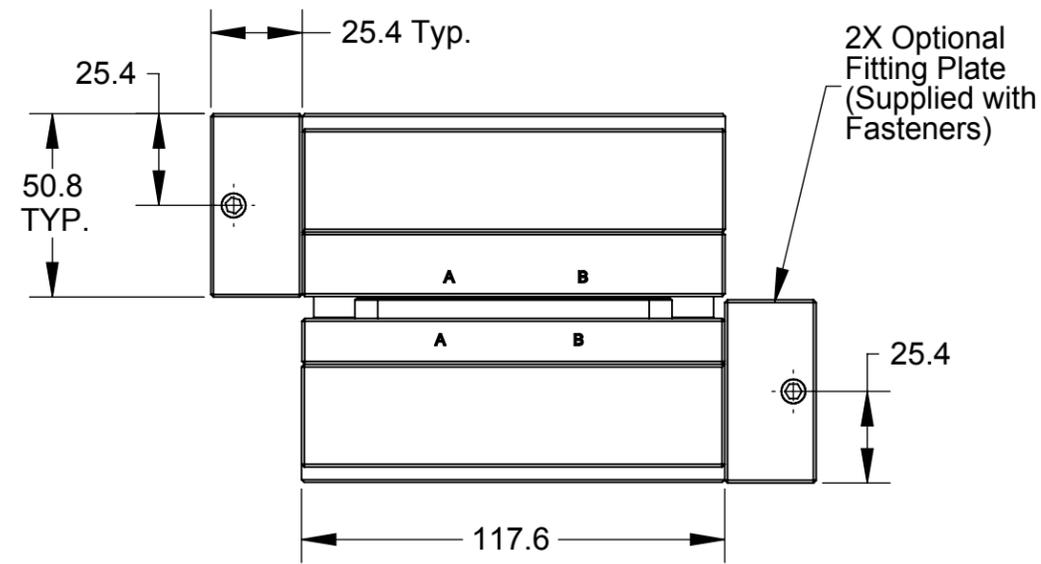
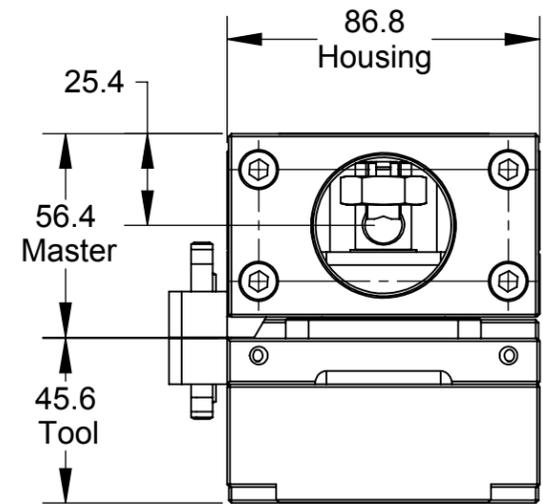
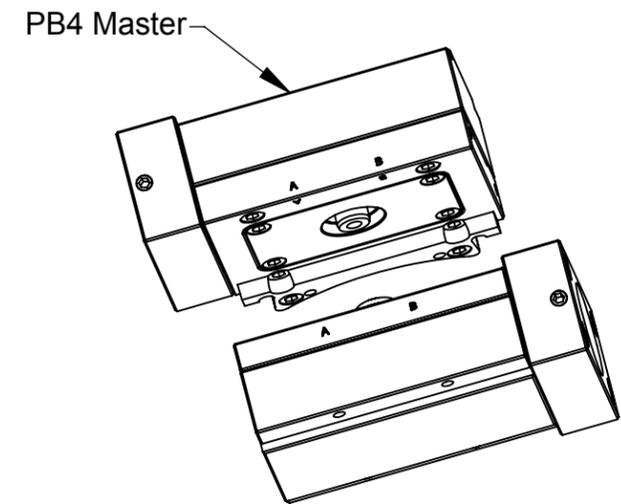
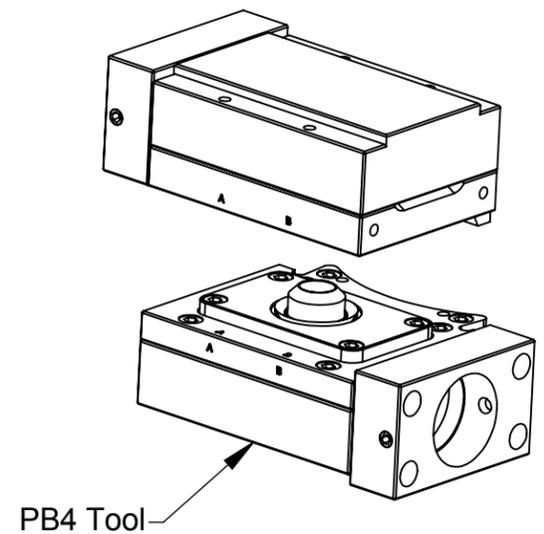
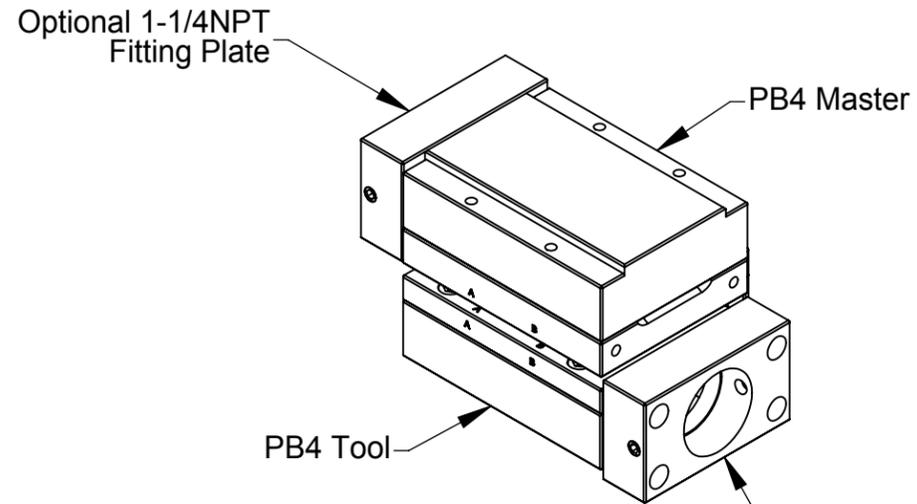




"DANGER!" - Electrical Shock Hazard

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.

Rev.	Description	Initiator	Date
05	Eco 14436; Added Danger note and Caution note.	LJH	4/26/16



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

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.



3rd ANGLE PROJECTION



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DRAWN BY: B. Digeso, 11/15/07		TITLE	
CHECKED BY: D.Lawson, 3/17/08		PB4 Module Drawing	
PROJECT # 071108-1	SHEET 1 OF 2	SCALE 1:2	SIZE B
DRAWING NUMBER 9630-20-PB4		REVISION 05	

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

*Field Service Kit: 9005-20-2255 contains contains items identified with asterisks.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	3500-1058012-15A	M3 X 8 SHCS Blue Dyed Magni-565, ND Microspheres
2	1	3500-1962005-11	Set Screw M4 x 5 Cup Point
3	1	3540-0103012-21	3mm x 12mm Dowel, SS (DIN 2338)
* 4	1	3690-6500004-11	Low-Clearance C-Style Ring for 5/8" Shaft Dia.
* 5	1	3700-20-1544	High Power Module Contact Tip No-Touch Master
* 6	1	3700-20-4152	CONTACT BASE, MASTER
* 7	1	3700-20-4153	INSULATOR POST, MASTER
* 8	1	3700-20-4162	SPLIT-BOLT CABLE CLAMP
* 30	1	3500-1058012-15A	M3 x 12mm SHCS Blue Dyed Magni-565, ND Microspheres

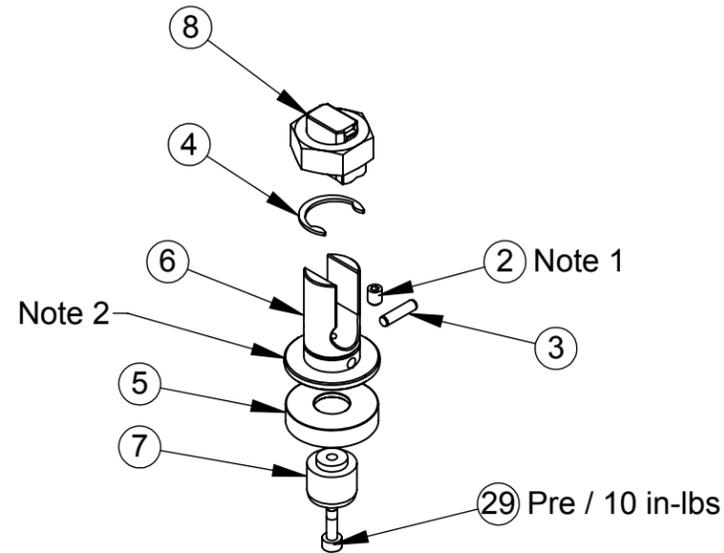
Tool Side
Contact Bases & Springs

3700-20-4157
Headed Contact Base
Use with
Spring 3610-1902501-21

See Note 3

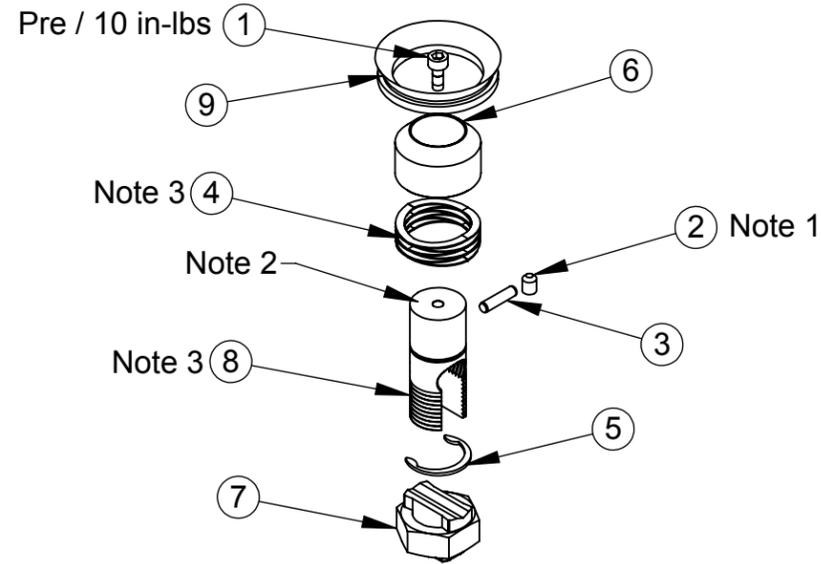
3700-20-7096
Headless Contact Base
Use with
Spring 3610-7301101-21

MASTER PARTS



*Field Service Kit: 9005-20-2253 contains contains items identified with asterisks.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3500-1058008-15A	M3 X 8 SHCS Blue Dyed Magni-565, ND Microspheres
2	1	3500-1962005-11	Set Screw M4 x 5 Cup Point
* 3	1	3540-0103012-21	3mm x 12mm Dowel, SS (DIN 2338)
* 4	1	3610-7301101-21	Wave Spring, .91"OD x .44 Lg-Smalley 14892-08
* 5	1	3690-6500004-11	Low-Clearance C-Style Ring for 5/8" Shaft Dia.
* 6	1	3700-20-4158	CONTACT TIP, TOOL
* 7	1	3700-20-4162	SPLIT-BOLT CABLE CLAMP
* 8	1	3700-20-7096	Narrow #2 Contact Base, Tool
* 9	1	4010-0000041-01	V-RING
* 29	1	3500-1058012-15A	M3 x 12mm SHCS Blue Dyed Magni-565, ND Microspheres



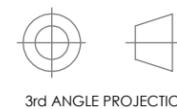
TOOL PARTS

Notes:

1. Apply Loctite 7649 Primer & Loctite 222. Then install flush with surface to .010" below.
2. Apply conductive silver grease to the flat surface.
3. Two types of tool-side contact bases and springs have been used. When ordering "Contactkit" as referenced above, the headless contact base will be supplied. If only the spring is required, identify the contact base type using the images at the right and order the appropriate spring.

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DRAWN BY: B. Digeso, 11/15/07		TITLE	
CHECKED BY: D.Lawson, 3/17/08		PB4 Module Drawing	
PROJECT # 071108-1	SHEET 2 OF 2	SCALE 1:2	SIZE B
		DRAWING NUMBER 9630-20-PB4	REVISION 05