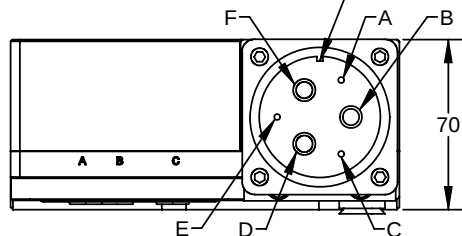
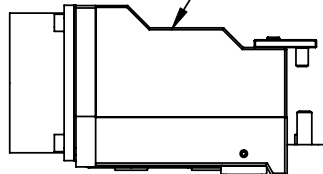


6-Pin Male Connector
MS 3102 E36-3P
Connector Key Orientation "UP"

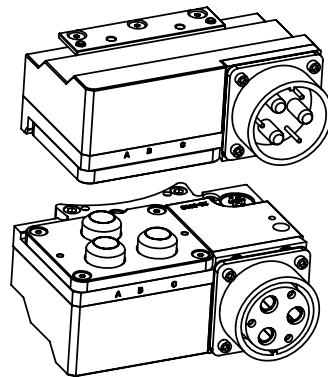
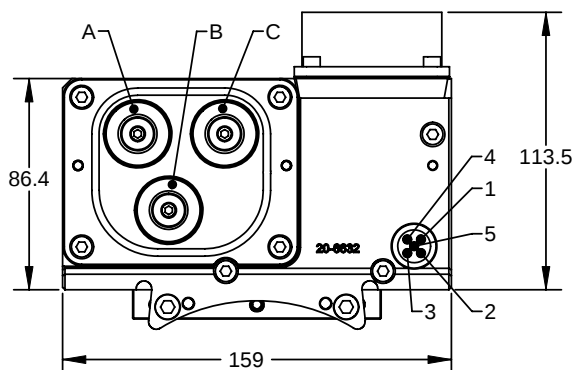


Note: The Master Module extends above the mounting surface of the Master.

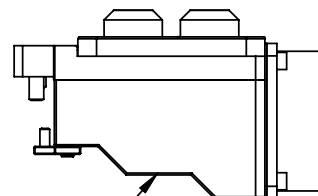


9121-PA11-M

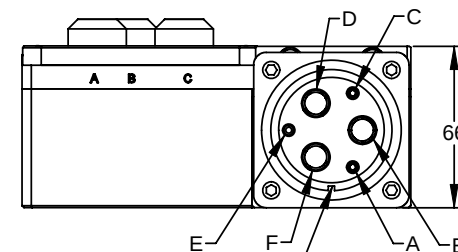
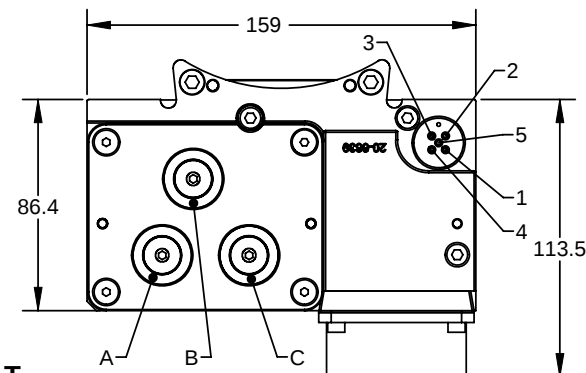
"DANGER! - For electrical modules using > 60VDC or 42 VAC, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components."



Note: The Tool Module extends below the mounting surface of the Tool.

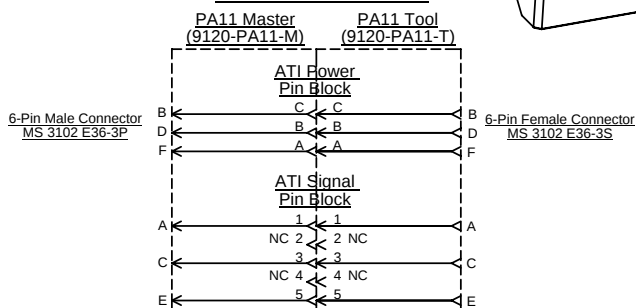


9121-PA11-T



6-Pin Female Connector
MS 3102 E36-3S
Connector Key Orientation "DOWN"

ELECTRICAL SCHEMATIC

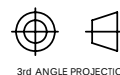


Notes:

- The PA11 includes three Rhodium-plated conical contacts. The three contacts are rated to 200A maximum current, 600V maximum voltage. The connector is rated to 150A maximum current, 500V maximum voltage.
- The PA11 also includes three 13A, 500V max. signal contacts.

NOTES: UNLESS OTHERWISE SPECIFIED.

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3rd ANGLE PROJECTION



1031 Goodworth Drive, Apex, NC 27539, USA
Tel: +1.919.772.0115 Email: info@ati-ia.com
Fax: +1.919.772.8259 www.ati-ia.com
ISO 9001 Registered Company

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DRAWN BY: D. Wagner 12/13/10	TITLE
CHECKED BY: DKL 12/21/10	PA11 Customer Drawing
PROJECT # 100504-5 SHEET 1 OF 2	SCALE 1:2
	SIZE B
	DRAWING NUMBER 9630-20-PA11
	REVISION 01

PA11-M Servicable Parts List

9121-PA11-M-CONTACTKIT-A consists of (1) each of items 2, 3, 4, 5, 6, 7, 9 and 10.
9121-PA11-M-CONTACTKIT-B consists of (1) each of items 2, 3, 4, 5, 6, 7, 8 and 10.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3410-0001325-01	O-Ring, AS568A-232, Buna-N, D50
2	3	3500-1058010-15A	M3 x 10mm SHCS MB, ND Microspheres
3	3	3500-1962005-11	Set Screw M4 x 5 Cup Point
4	3	3540-0103012-11	3mm x 12mm Dowel Alloy Steel
5	3	3690-6500004-11	Low-Clearance C-Style Ring for 5/8" Shaft Dia.
6	3	3700-20-1544	Valiant High Power Module Contact Tip No-Touch Master
7	3	3700-20-4153	INSULATOR POST, MASTER
8	1	3700-20-6634	Short Contact Base, PA11 Master
9	2	3700-20-6635	Tall Contact Base, PA11 Master
10	3	3700-20-6643	Split Bolt Cable Clamp, 4 AWG Cable
11	1	4010-0000033-01	V-Ring Seal
12	1	9005-20-1198	Master Cleat Sub-Assembly

PA11-T Servicable Parts List

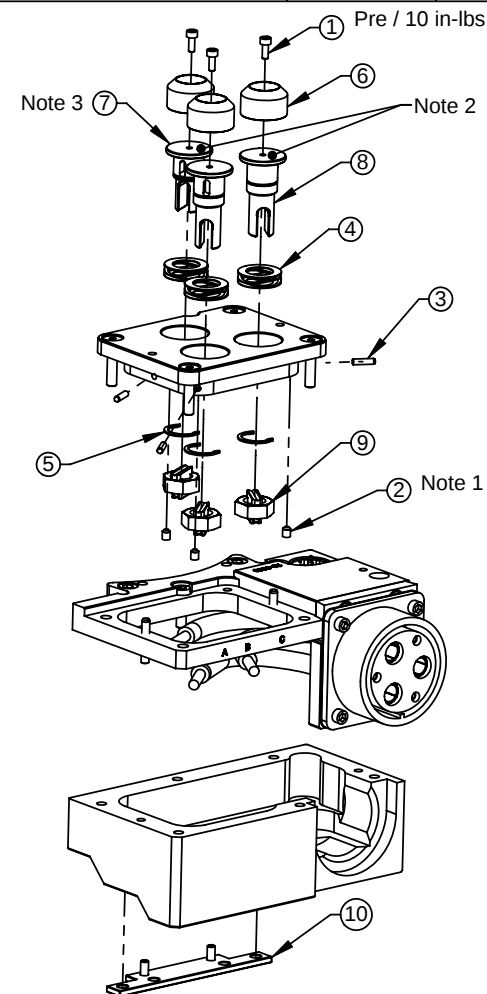
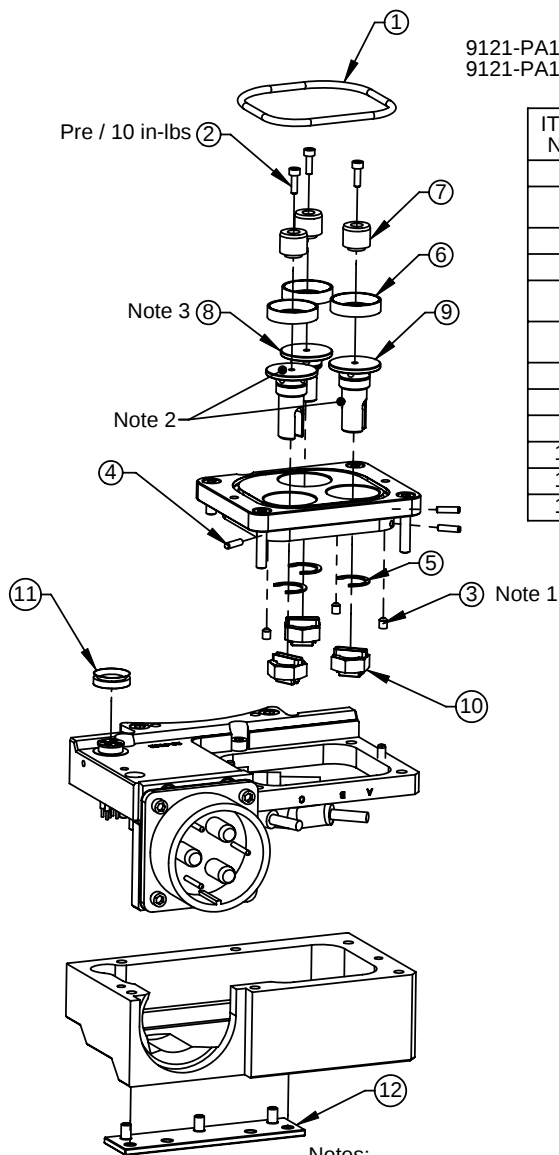
9121-PA11-T-CONTACTKIT-A consists of (1) each of items 1, 2, 3, 4, 5, 6, 8, and 9.
9121-PA11-T-CONTACTKIT-B consists of (1) each of items 1, 2, 3, 4, 5, 6, 7, and 9.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	3500-1058008-15A	M3 x 8mm SHCS MB, ND Microspheres
2	3	3500-1962005-11	Set Screw M4 x 5 Cup Point
3	3	3540-0103012-11	3mm x 12mm Dowel Alloy Steel
4	3	3610-1902501-21	WAVE SPRING, .6" I.D., 298#/in
5	3	3690-6500004-11	Low-Clearance C-Style Ring for 5/8" Shaft Dia.
6	3	3700-20-4158	CONTACT TIP, TOOL
7	1	3700-20-6641	Short Contact Base, PA11Tool
8	2	3700-20-6642	Tall Contact Base, PA11 Tool
9	3	3700-20-6643	Split Bolt Cable Clamp, 4 AWG Cable
10	1	9005-20-1199	Tool Cleat Sub-Assembly

Notes:

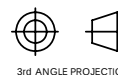
1. Apply 7649-222 and install flush with surface to .010" below.
2. Apply conductive silver grease with a volume resistivity of 0.001 ohm-cm or better to large flat surface.
3. Short contact bases are used for high-current contact position "B".

Rev.	Description	Initiator	Date
-	See Sheet1	-	-



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1031 Goodworth Drive, Apex, NC 27539, USA
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DRAWN BY: D. Wagner 12/13/10	TITLE	PA11 Customer Drawing	REVISION
CHECKED BY: DKL 12/21/10	SCALE	2:5	01
PROJECT # 100504-5 SHEET 2 OF 2	SIZE	B	DRAWING NUMBER 9630-20-PA11