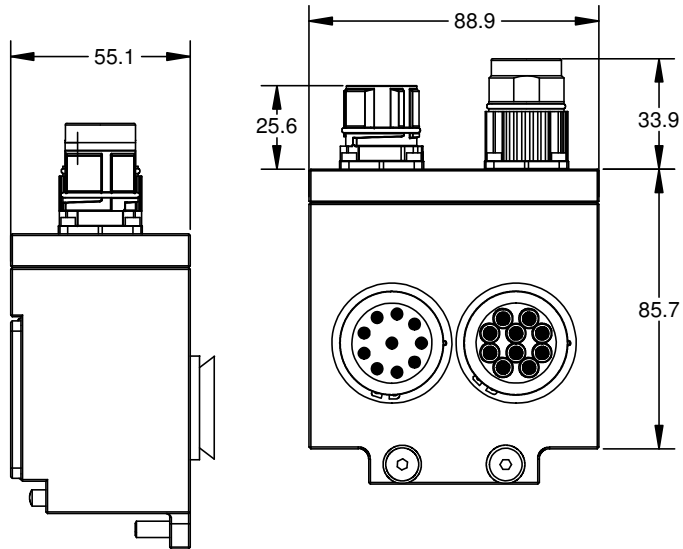
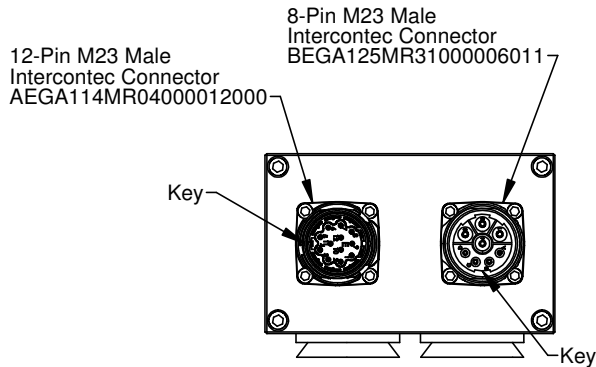
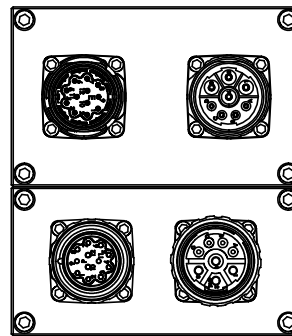
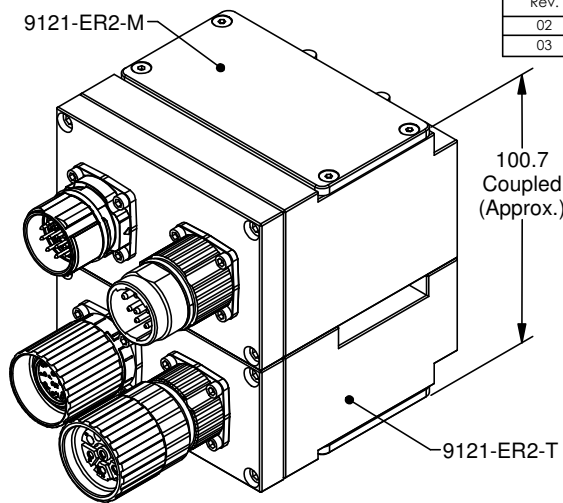


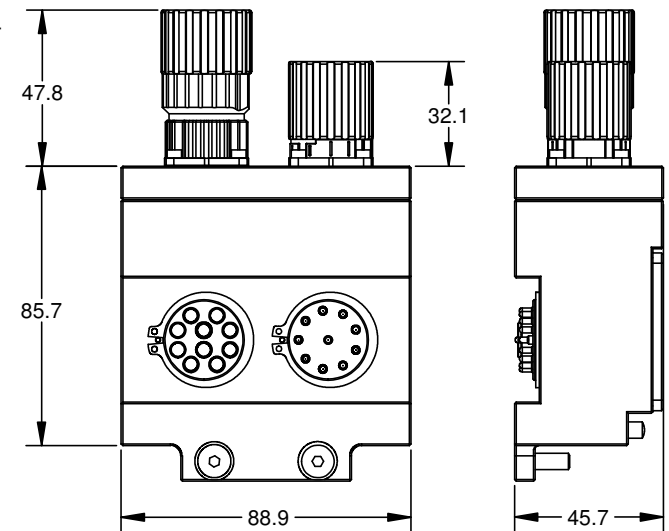
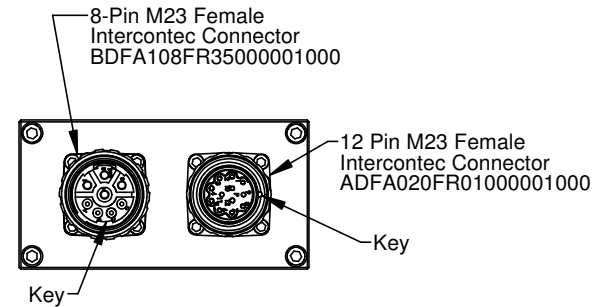


ER2 Master Module



Master and Tool Modules Coupled

Rev.	Description	Initiator	Date
02	Change Phoenix M23 connectors to Intercontec	PDL	12/19/2011
03	Change Burndy connectors to Intercontec	PDL	2/16/2012



ER2 Tool Module

Notes:

- Customer is to approve Connector Selection and connector orientation.
- Customer is to approve Electrical Schematic on Sheet 4 of this drawing.

"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."

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.



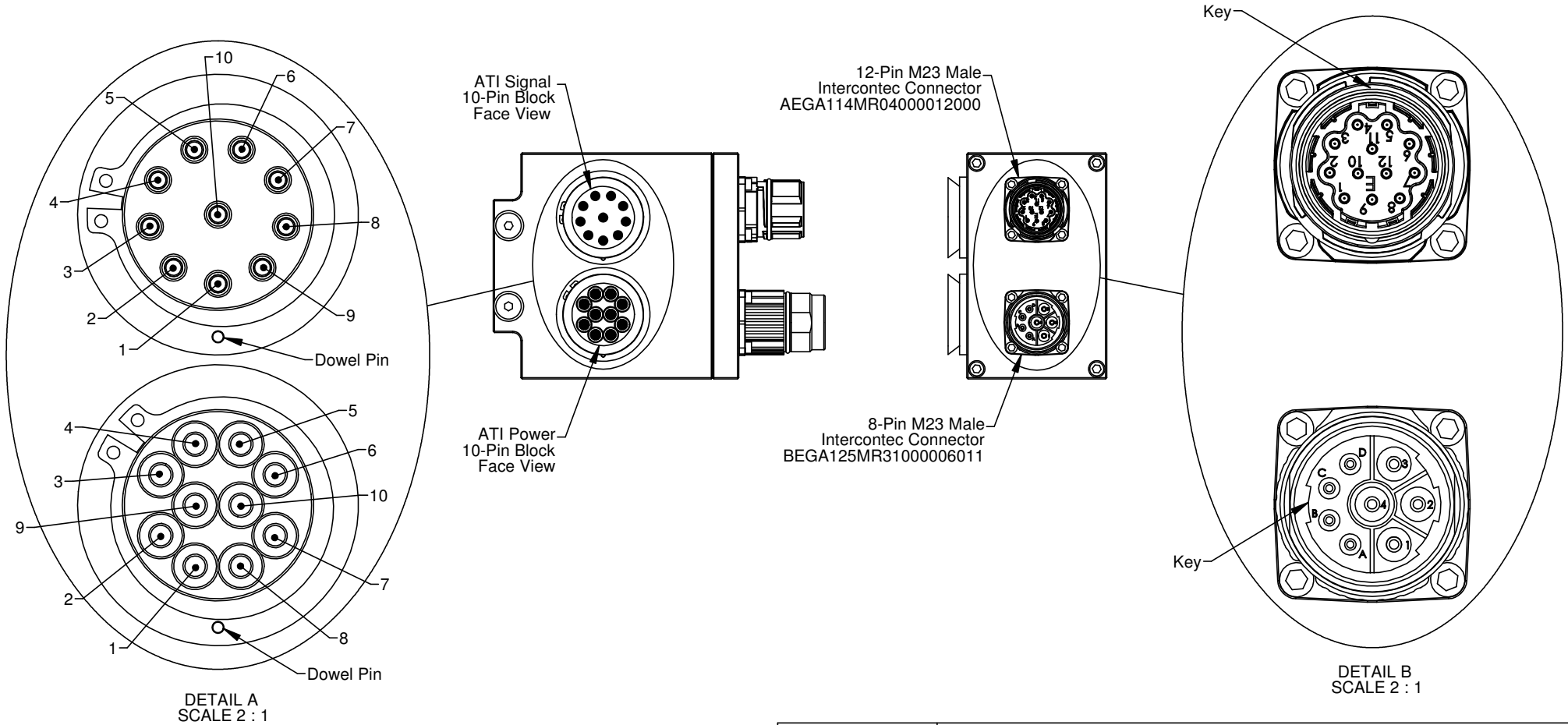
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DRAWN BY: P.Luczka, 11/23/11	TITLE		
CHECKED BY: A.Takla, 2/17/12 L. Jamshidi, 2/20/12	ER2 Servo Module, Master and Tool Customer Drawing		
PROJECT # 111111-3 SHEET 1 OF 4	SCALE 1:1	SIZE B	DRAWING NUMBER 9630-20-ER2
			REVISION 03

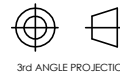
Rev.	Description	Initiator	Date
-	See Sheet1	-	-

9121-ER2-M Module



NOTES: UNLESS OTHERWISE SPECIFIED.

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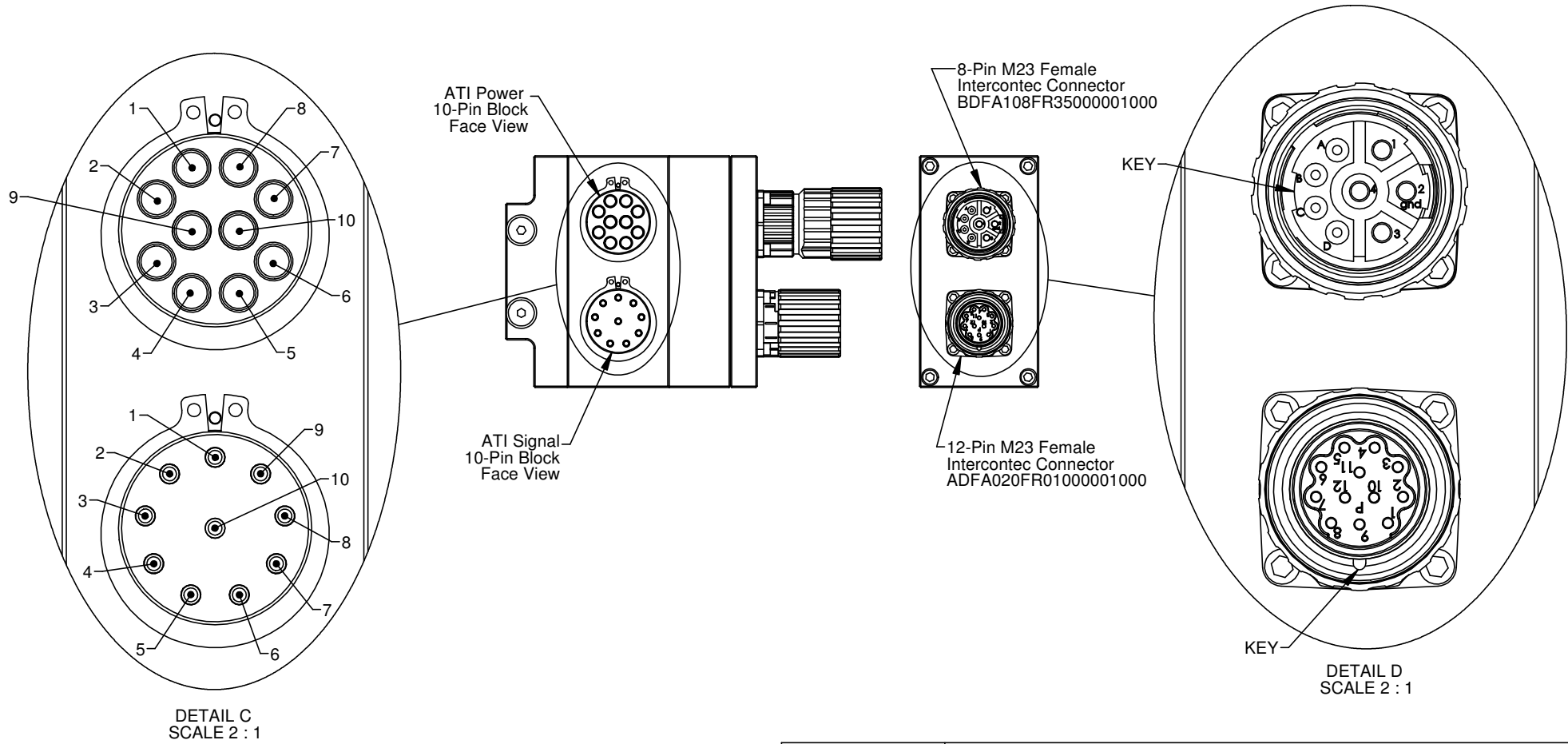
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PROJECT # 111111-3 SHEET 2 OF 4	SCALE 1:1 SIZE B DRAWING NUMBER 9630-20-ER2 REVISION 03

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

9121-ER2-T Module



NOTES: UNLESS OTHERWISE SPECIFIED.

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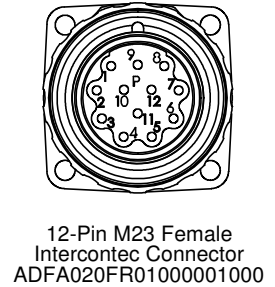
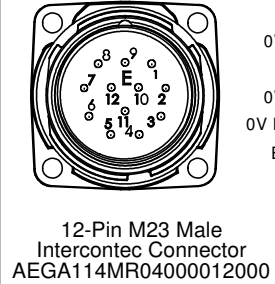
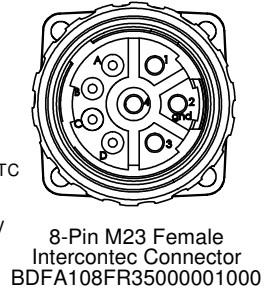
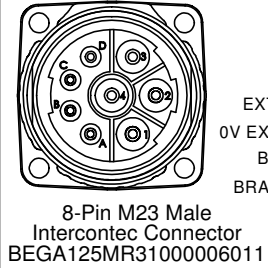
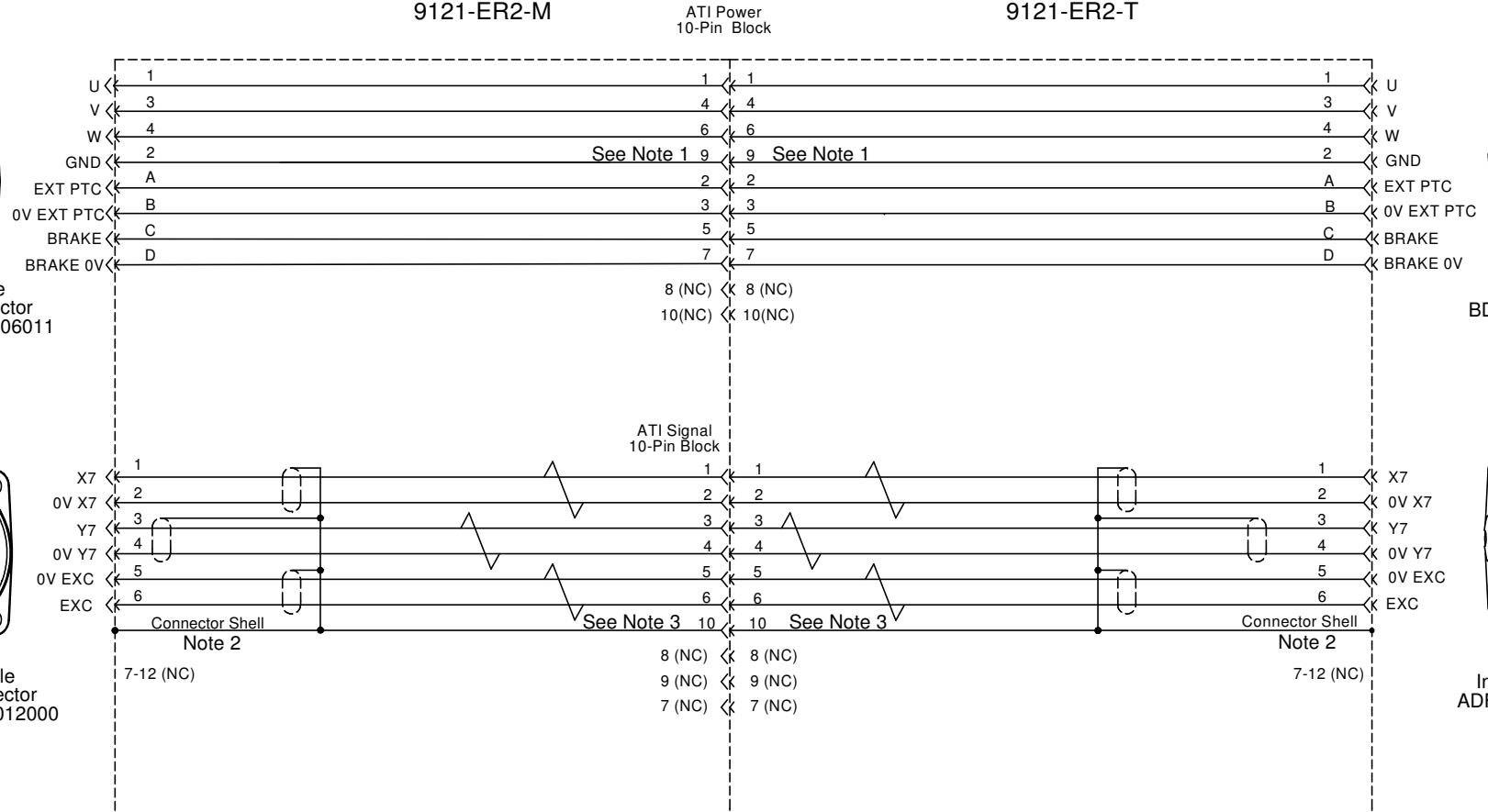
3rd ANGLE PROJECTION

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DRAWN BY: P.Luczka, 11/23/11 CHECKED BY: A.Takla, 2/17/12 L. Jamshidi, 2/20/12		TITLE ER2 Servo Module, Master and Tool Customer Drawing	
PROJECT # 111111-3 SHEET 3 OF 4		SCALE 1:1	SIZE B
		DRAWING NUMBER 9630-20-ER2	REVISION 03

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

MASTER MODULE 9121-ER2-M

TOOL MODULE 9121-ER2-T

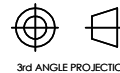


Notes:

- Pin 9 on the ATI Pin Block is First-To-Mate and Last-To-Break contact, recommended as ground.
- Connector shell is electrically isolated from module. The cover material is Delrin.
- Pin 10 on the ATI Pin Block is First-To-Mate and Last-To-Break contact, recommended as ground.

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CHECKED BY: A.Takla, 2/17/12 L. Jamshidi, 2/20/12	ER2 Servo Module, Master and Tool Customer Drawing
PROJECT # 111111-3 SHEET 4 OF 4	SCALE 1:5 SIZE B DRAWING NUMBER 9630-20-ER2 REVISION 03