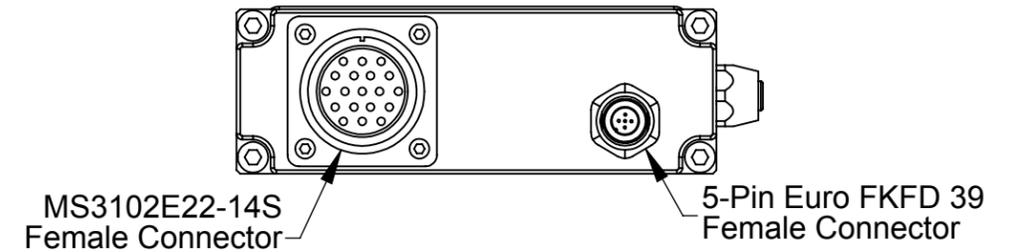
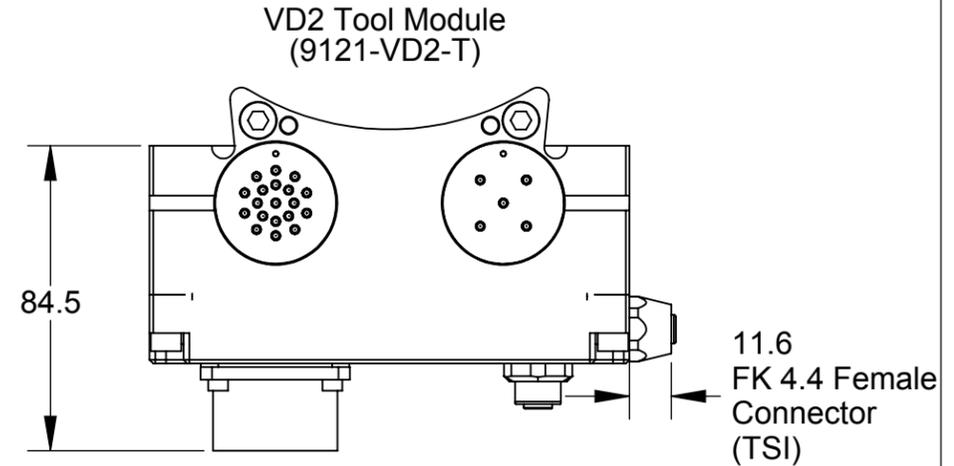
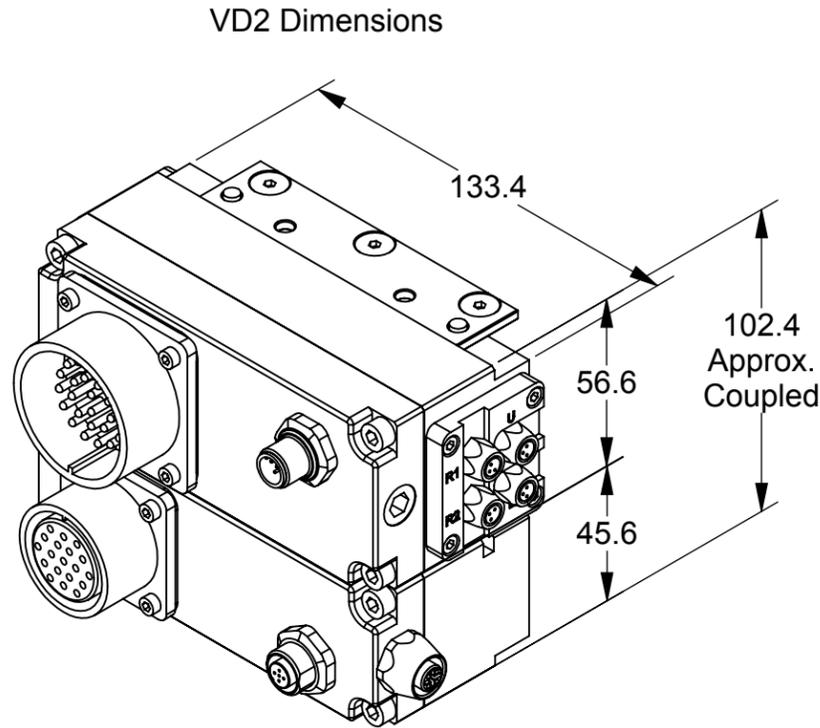
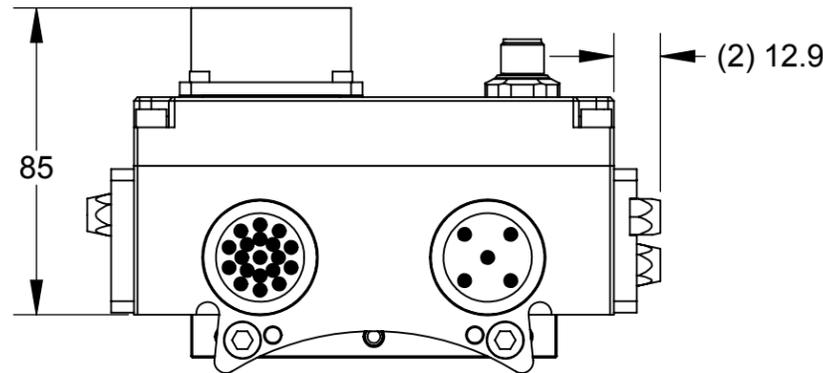
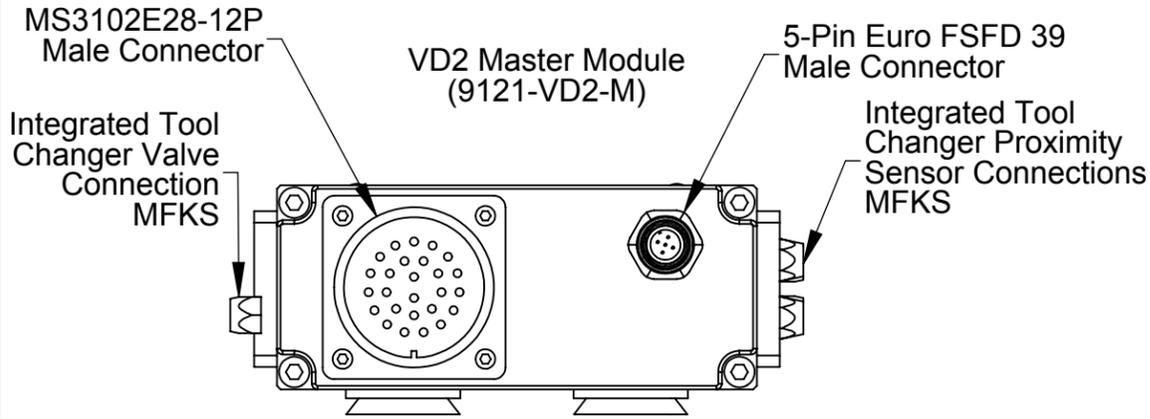




"DANGER!" - Electrical Shock Hazard

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.

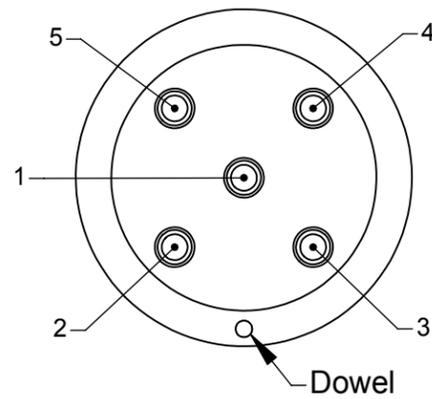
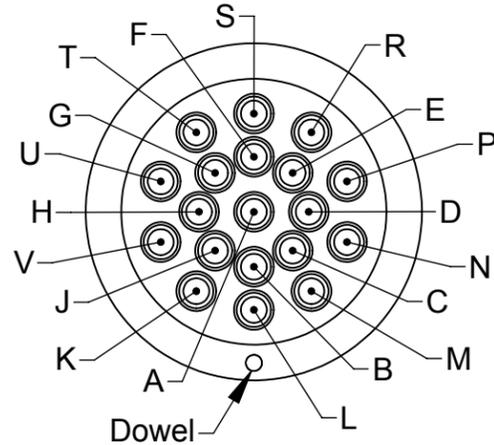
Rev.	Description	Initiator	Date
07	ECO 14704; Updated to reflect changes to 9121-VD2-T (replaced 3700-20-4772.SLDPRT with 3700-20-4772.SLDASM "make from" format and removed cleat assembly). Updated Title Block, Shock Hazard Warning, and Serviceable Parts BOM.	SZJ	11/8/2016



MODULE BOTTOM REFERENCE

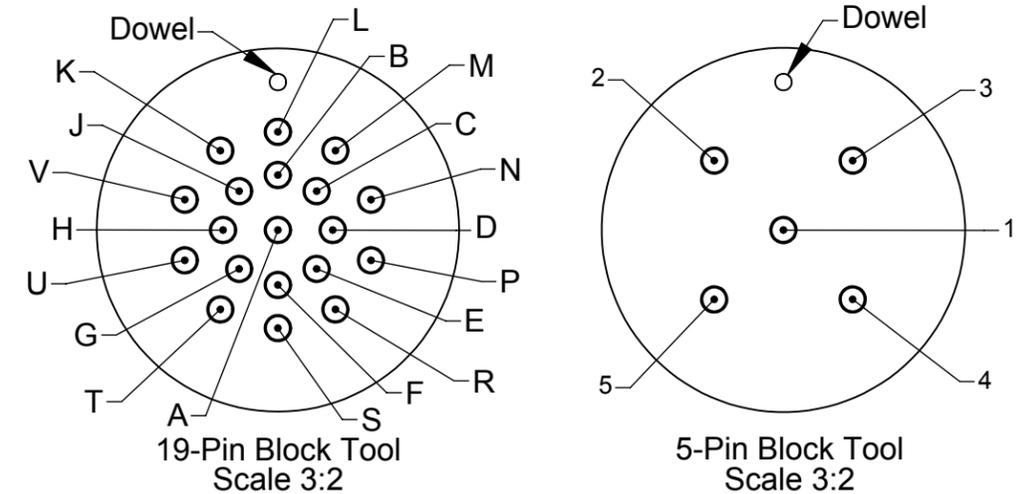
19-Pin Block Master Scale 3:2

5-Pin Block Master Scale 3:2



Sheet Configurations:

- Sheet 1: VD2 Dimensions/Connector Views
- Sheet 2: VD2 Serviceable Parts
- Sheet 3: VD2 Master with VD2 Tool Schematic



MODULE BOTTOM REFERENCE

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.



3rd ANGLE PROJECTION



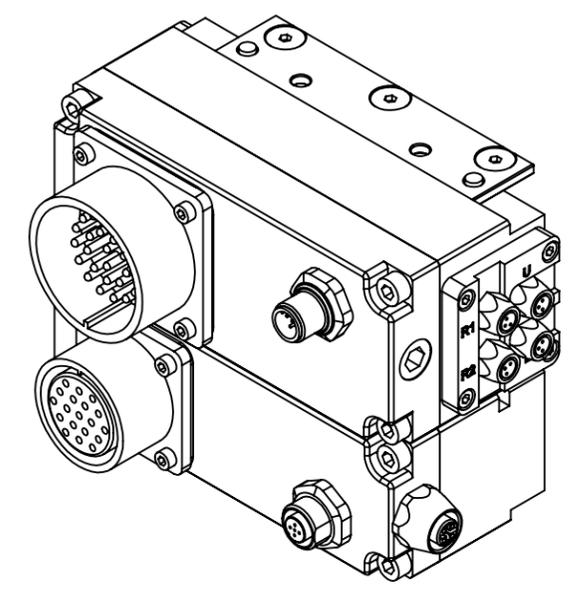
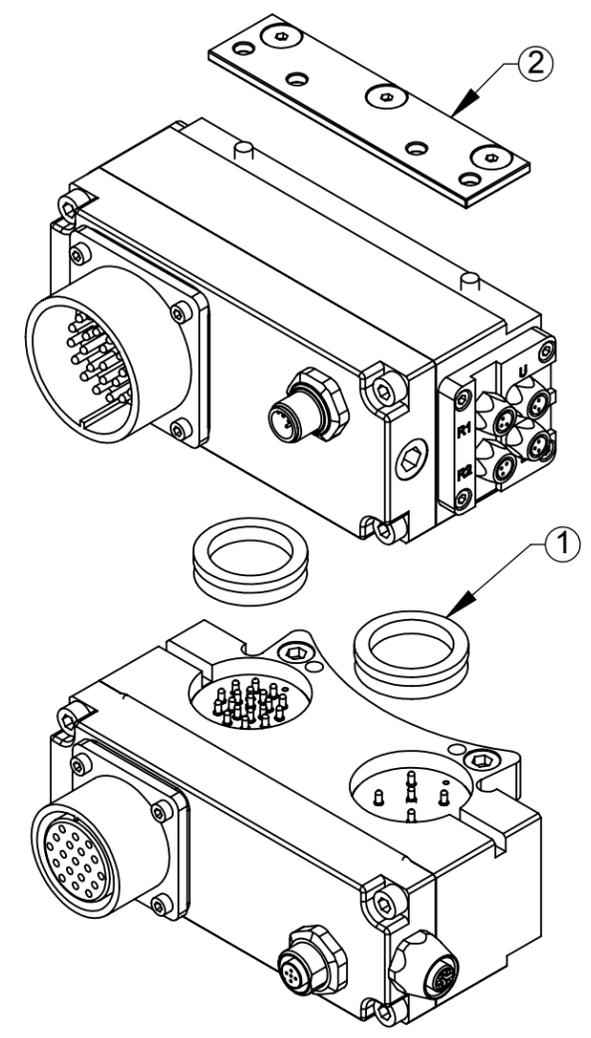
1031 Goodworth Drive, Apex, NC 27539, USA
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 Fax: +1.919.772.8259 www.ati-ia.com
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DRAWN BY: R. Heavner, 2/6/06		TITLE	
CHECKED BY: B. Digeso, 2/13/06		VD2 Discrete and Remote I/O Module	
PROJECT #	SHEET 1 OF 3	SCALE	SIZE
		1:2	B
		DRAWING NUMBER	REVISION
		9630-20-VD2	07

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

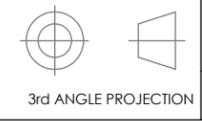
VD2 Serviceable Parts



Item	QTY.	PART NUMBER	DESCRIPTION
1	2	4010-0000030-01	V-Ring Seal
2	1	9005-20-1198	Master Cleat Assembly

NOTES: UNLESS OTHERWISE SPECIFIED.

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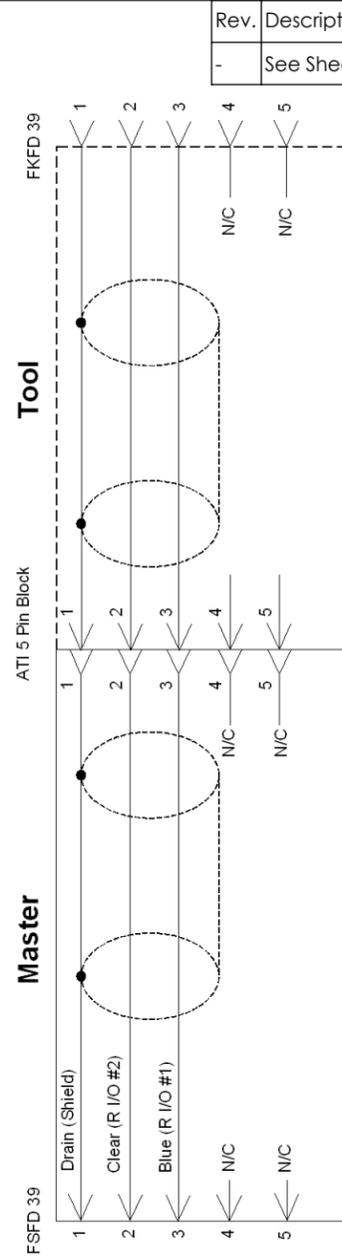
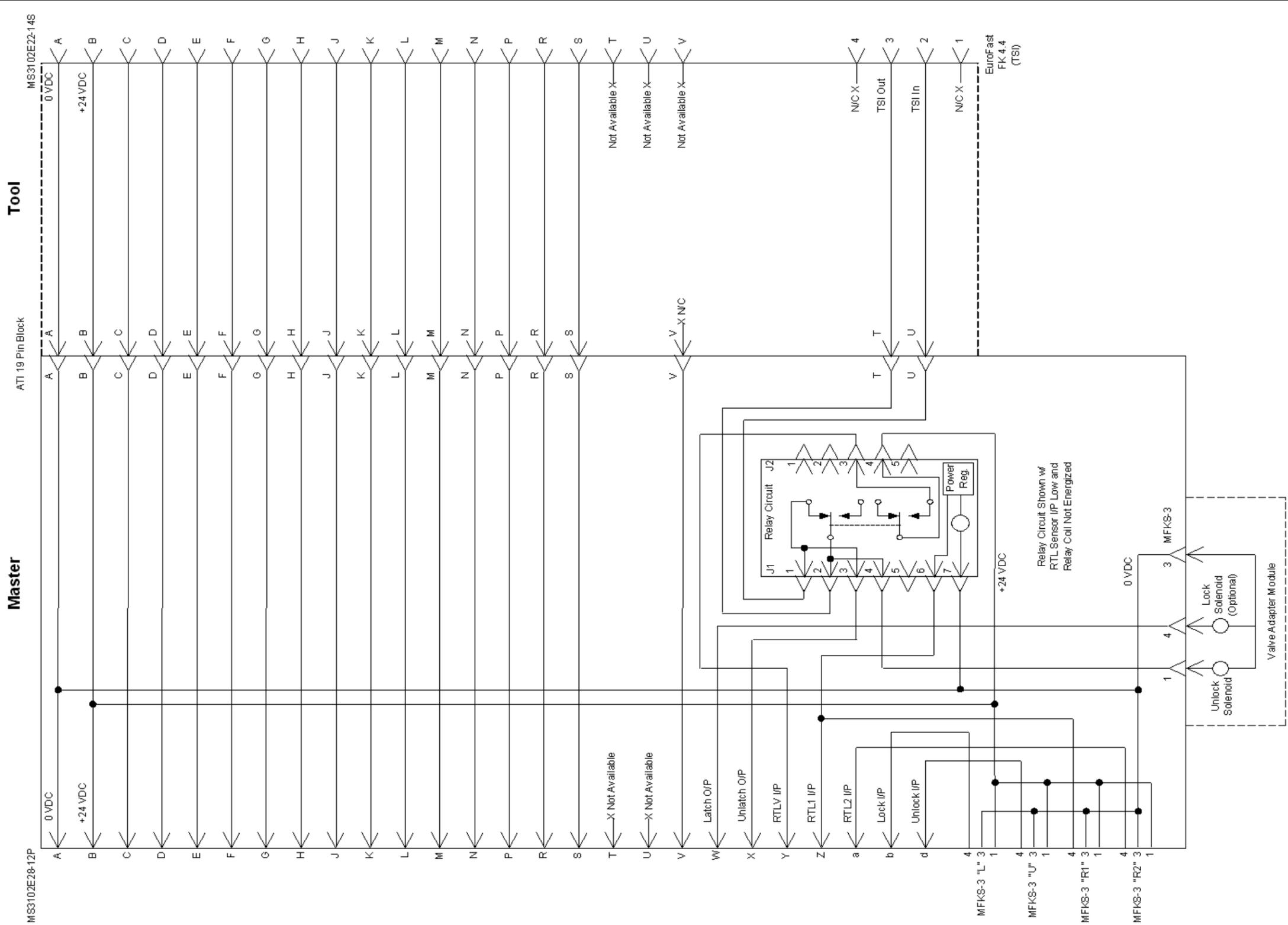


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DRAWN BY: R. Heavner, 2/6/06		TITLE	
CHECKED BY: B. Digeso, 2/13/06		VD2 Discrete and Remote I/O Module	
PROJECT #	SHEET 2 OF 3	SCALE	SIZE
		1:2	B
DRAWING NUMBER		REVISION	
9630-20-VD2		07	

Rev.	Description	Initiator	Date
-	See Sheet1	-	-



Controller Outputs		
Pin:	Signal:	Description:
A	0 VDC	Voltage Reference
B	24 VDC	Voltage Supply
W	24 VDC	Latch Solenoid Supply
X	24 VDC	Unlatch Solenoid Supply
Controller Inputs		
Pin:	Signal:	Description:
Y	RTL V	RTL Verify Input
Z	RTL #1	Ready-To-Lock Input #1
a	RTL #2	Ready-To-Lock Input #2
b	Lock	Tool Changer Lock Input
d	Unlock	Tool Changer Unlock Input

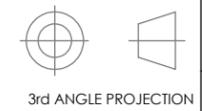
- Notes:**
- Pin "A" on the MS connector is First-to-Mate Last-to-Break at the tool changer 19 pin block interface. This pin is recommended for use as 0 VDC/ground reference.
 - Pin "1" on the FSFD 39 connector is First-to-Mate Last-to-Break at the tool changer 5 pin block interface. This pin is specified for use as Drain for the remote I/O interface.

Tool Stand Interlock (TSI) Operation:

- A hard-wired break in the Valve Unlatch Output is provided on the tool module via the 4-pin Eurofast connector. It is suggested that the customer integrate a single throw, double pole (NO, spring return) limit switch to work with this feature. The limit switch should be mounted to the end effector in such a way that the switch is "made" only when the tool is in the stand or storage location.
- The RTL sensor is very important to this TSI feature and therefore should be monitored for failure. The RTL V Input is available for fault monitoring of this circuit. Please consult the product manual for operation and fault monitoring suggestions.
- Limit switches, trip dogs and cabling are also available from ATI.

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DRAWN BY: R. Heavner, 2/6/06		TITLE	
CHECKED BY: B. Digeso, 2/13/06		VD2 Discrete and Remote I/O Module	
PROJECT #	SHEET 3 OF 3	SCALE	REVISION
		1:2	07
		SIZE	DRAWING NUMBER
		B	9630-20-VD2