

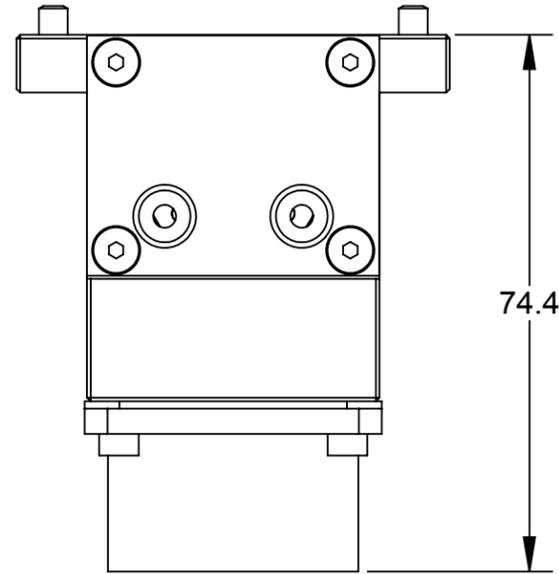


**"DANGER!" - Electrical Shock Hazard**

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.

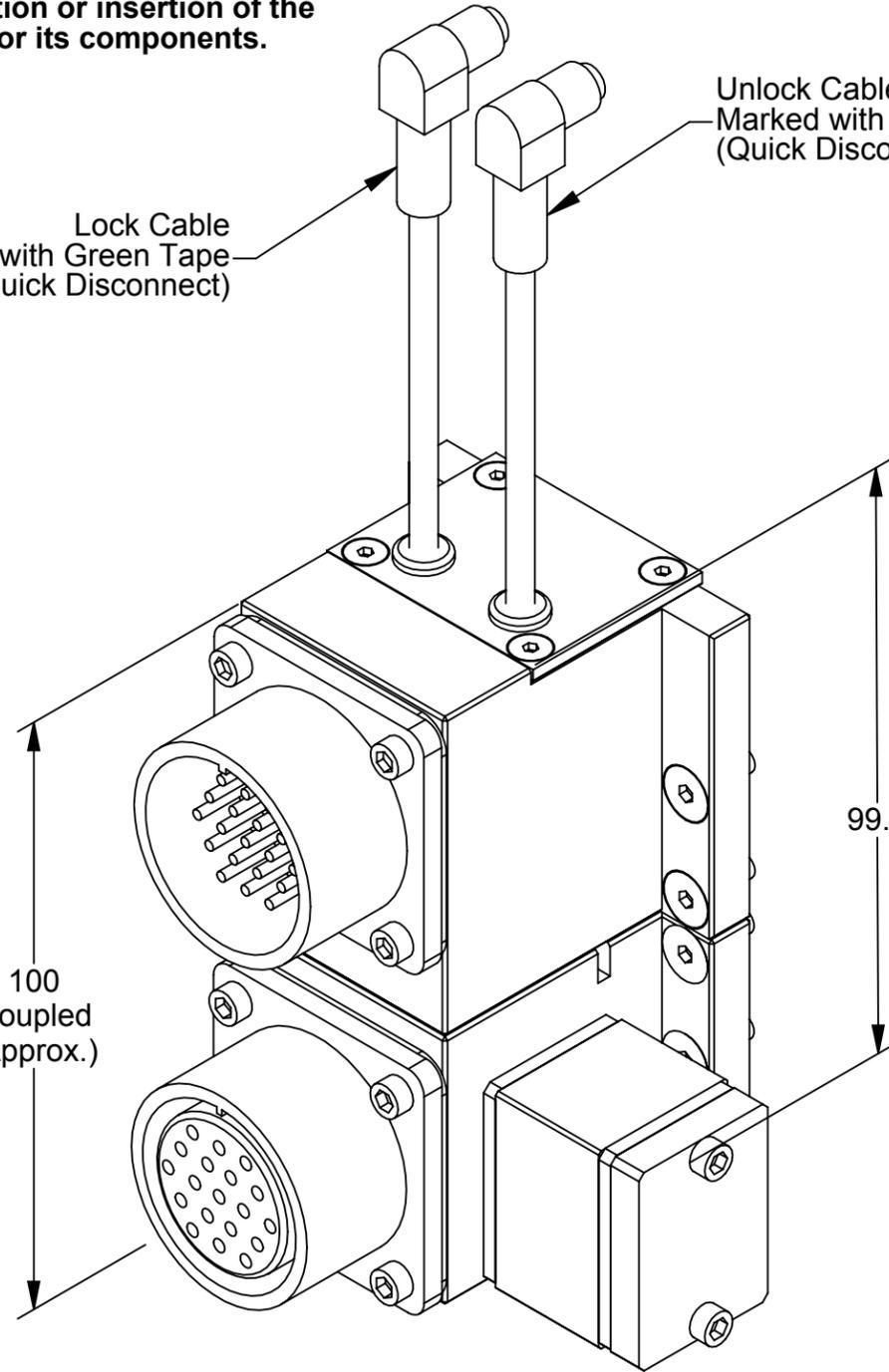
Rev.	Description	Initiator	Date
02	Eco 13261; Updated Electrical Hazard Note. Updated Tool Selector Switch Housing.	CF	4/22/2015

T19R Master Module  
(9120-T19R-M)

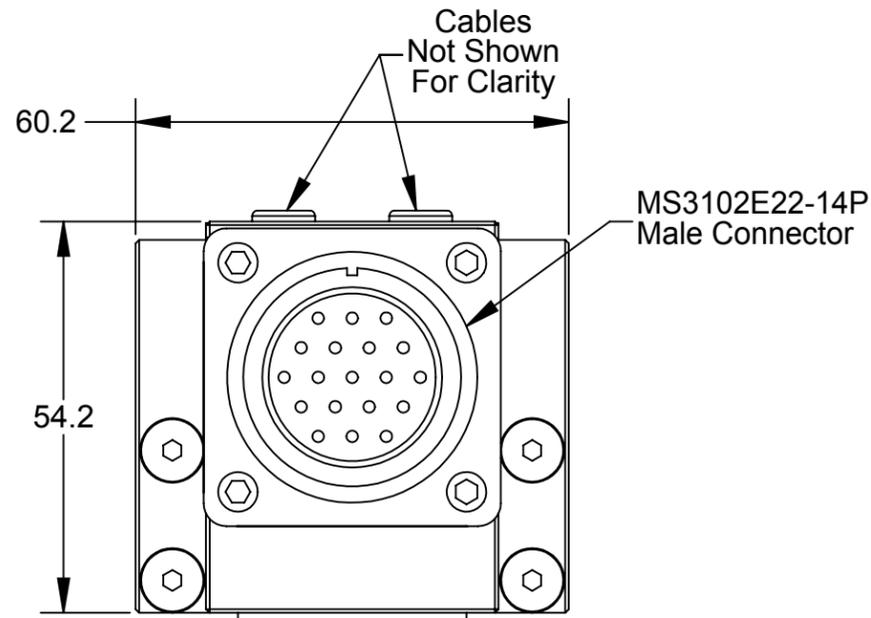
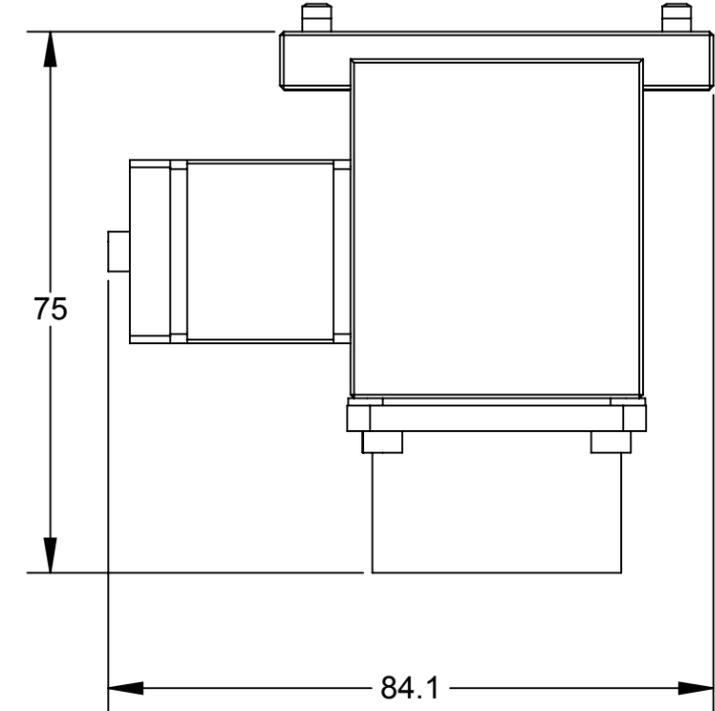


Lock Cable  
Marked with Green Tape  
(Quick Disconnect)

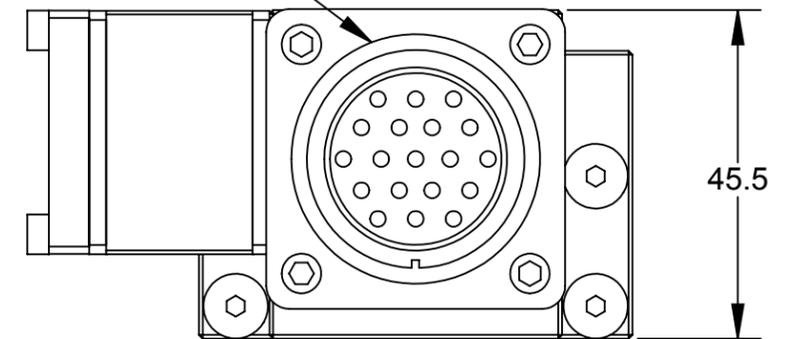
Unlock Cable  
Marked with Red Tape  
(Quick Disconnect)



T10 Tool Module  
(9120-T10-T)



MS3102E22-14S  
Female Connector



Serviceable Part:  
(V-Ring)  
4010-0000030-01

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING.  
ALL DIMENSIONS ARE IN  
MILLIMETERS.



3rd ANGLE PROJECTION



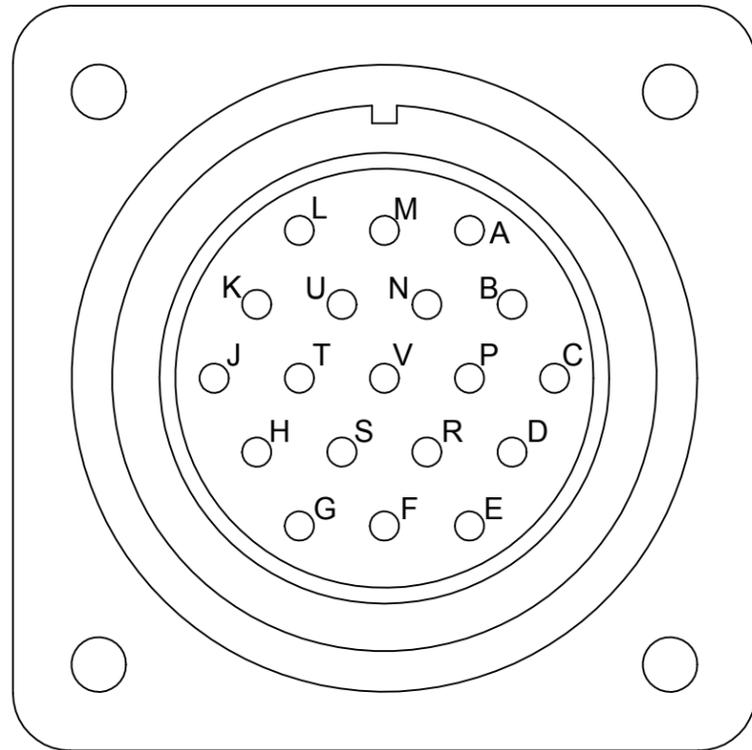
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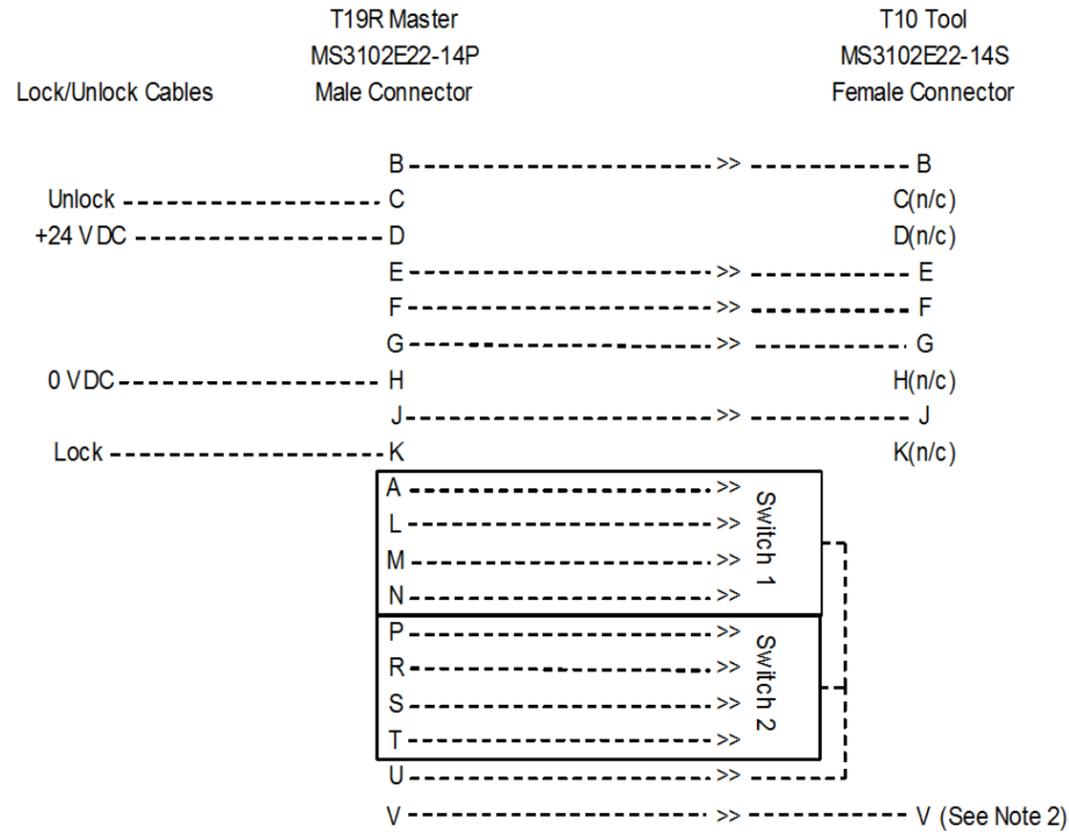
DRAWN BY: D. Swanson 5/20/11		TITLE	
CHECKED BY: D. Lawson 5/20/11		T19R-M with T10-T Module Drawing	
DTM 5/23/11		SCALE	REVISION
PROJECT #	SHEET 1 OF 2	1:1	02
		SIZE	DRAWING NUMBER
		B	9630-20-T19RM T10T

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

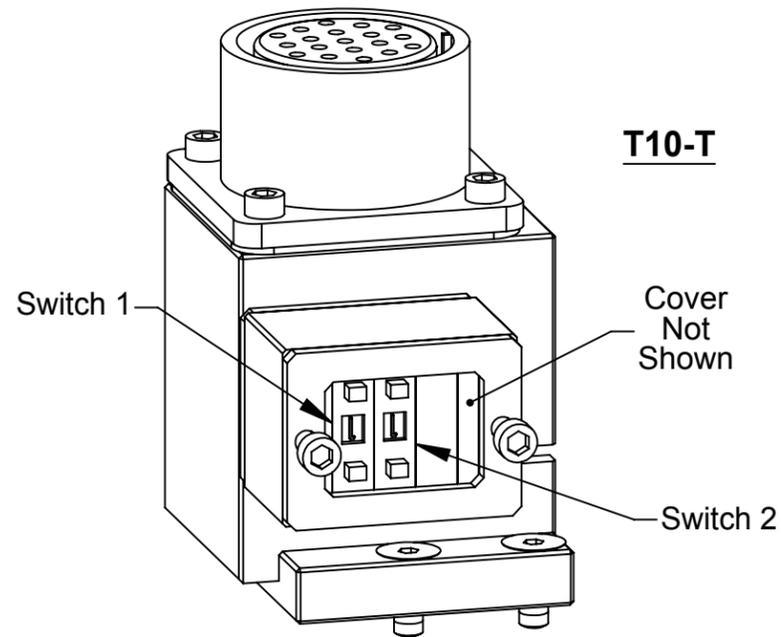
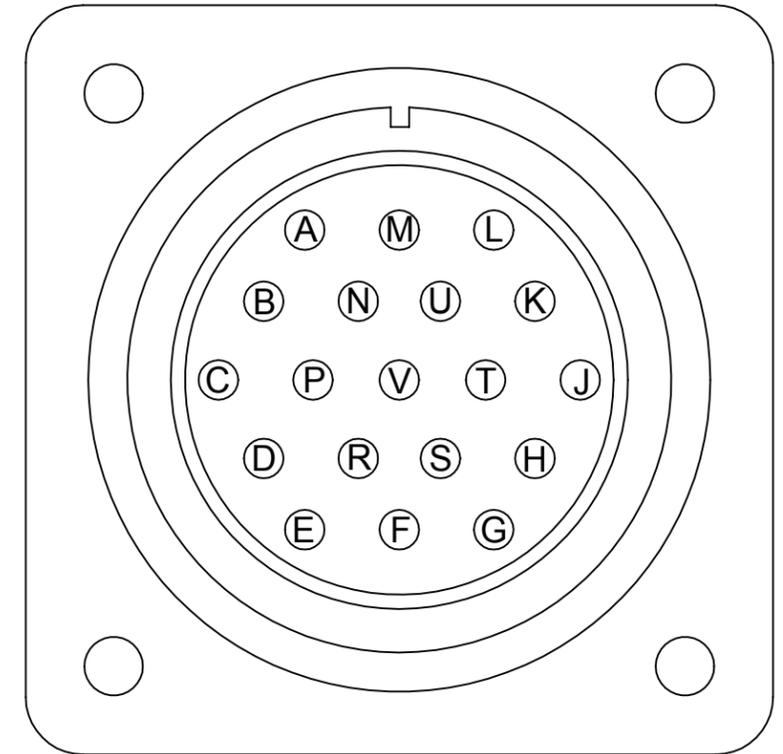
**T19R-M  
Master Side  
(MS3102E22-14P)**



**T19R to T10 Pin Out**



**T10-T  
Tool Side  
(MS3102E22-14S)**



**T10-T**

**Signal Legend**

Pin V: 0 VDC (recommended)  
Pin U: 5-50 VDC 100mA Max (Tool ID)

**Binary Output of Tool ID**

Switch Selection	Pin R	Pin S	Pin T	Pin P	Switch 2	Switch 1
	L	M	N	A		
0	0	0	0	0		
1	0	0	1	0		
2	0	1	0	0		
3	0	1	1	0		
4	1	0	0	0		
5	1	0	1	0		
6	1	1	0	0		
7	1	1	1	0		
8	0	0	0	1		
9	0	0	1	1		

- Note:**
1. Large views of connectors are 2.5:1 scale.
  2. Pin "V" on the amphenol connectors is First-to-mate Last-to-break at the Tool Changer interface. This pin is recommended for use as ground.

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3rd ANGLE PROJECTION



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DRAWN BY: D. Swanson 5/20/11	TITLE <b>T19R-M with T10-T Module Drawing</b>		SCALE	SIZE	DRAWING NUMBER	REVISION
CHECKED BY: D. Lawson 5/20/11 DTM 5/23/11			1:1	B	9630-20-T19RM T10T	02
PROJECT #	SHEET 2 OF 2					