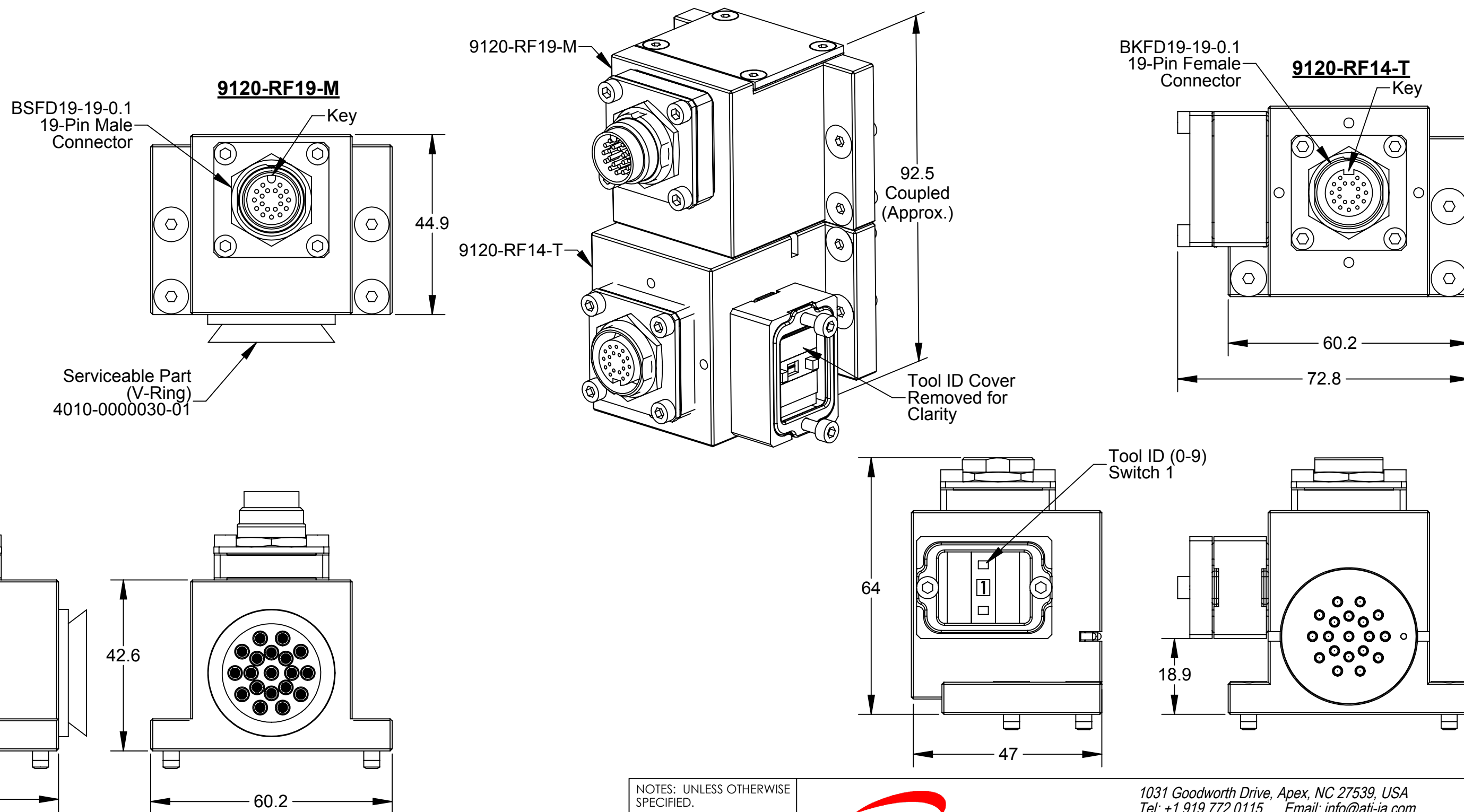


**"DANGER!" - Electrical Shock Hazard**

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 16961; Added Sheets 2 and 3. Added Pin Block Information and Electrical Shock Note. Updated Electrical Schematic to Current Standard.	CF	7/5/2018



NOTES: UNLESS OTHERWISE SPECIFIED.

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3rd ANGLE PROJECTION

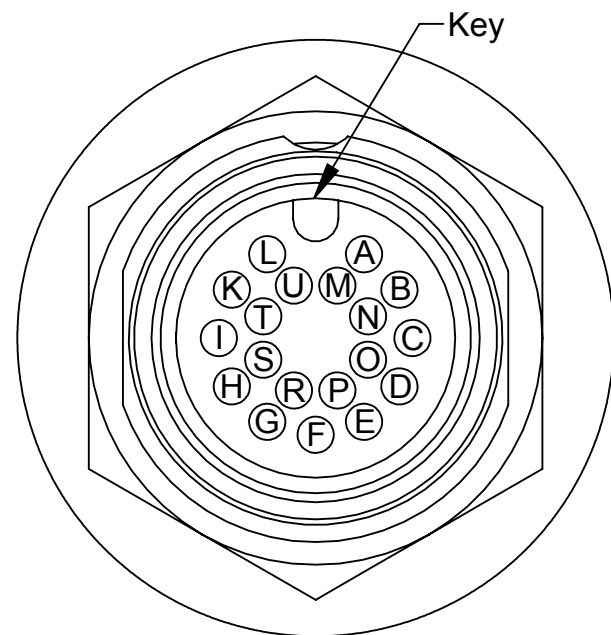
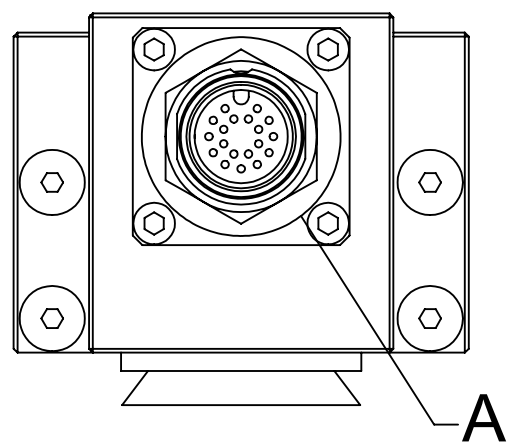


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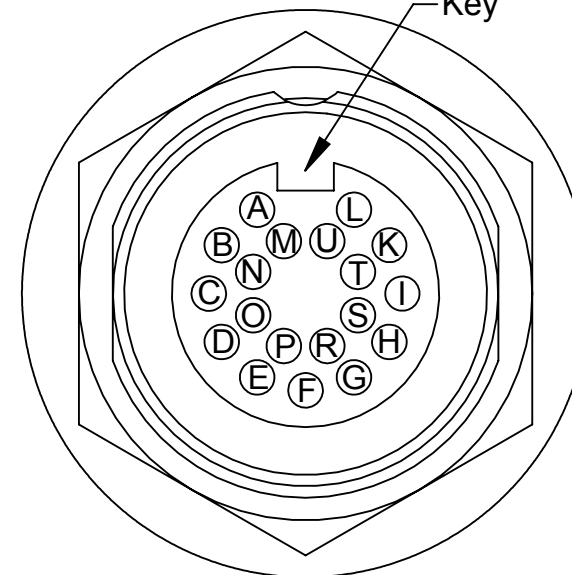
DRAWN BY: J. Williams, 11/21/07		TITLE	
CHECKED BY: D. Lawson, 11/26/07		RF19 Master with RF14 Tool Module Drawing	
PROJECT # 071101-1	SHEET 1 OF 3	SCALE 1:1	SIZE B
DRAWING NUMBER 9630-20-RF19M RF14T		REVISION 05	

**9120-RF19-M**



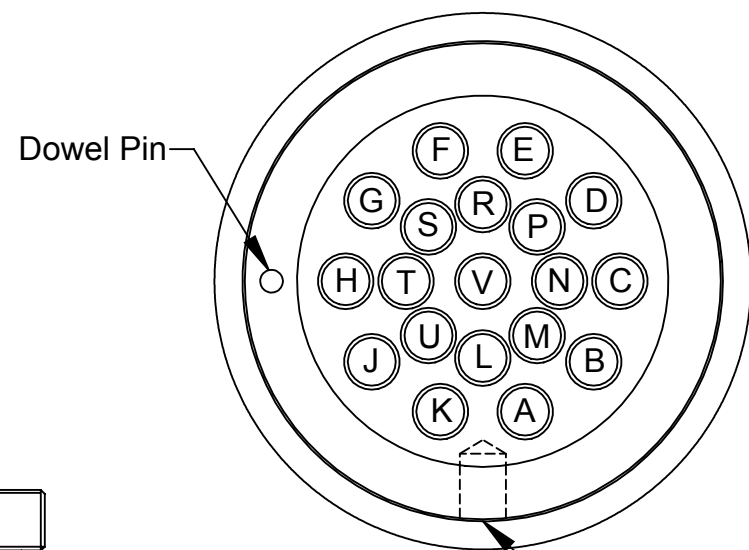
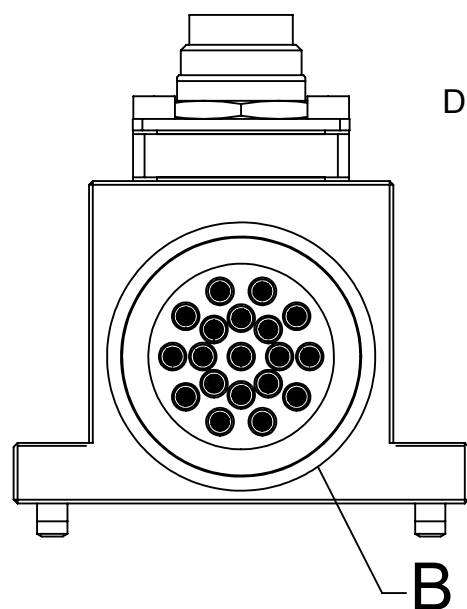
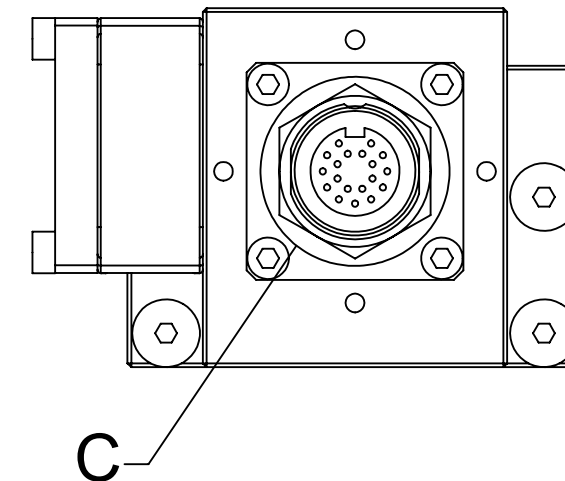
DETAIL A  
SCALE 3 : 1

Key

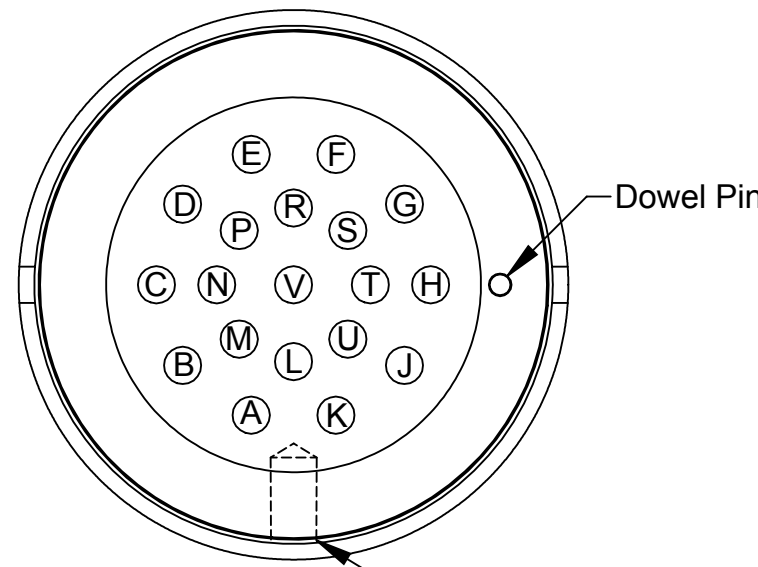


DETAIL C  
SCALE 3 : 1

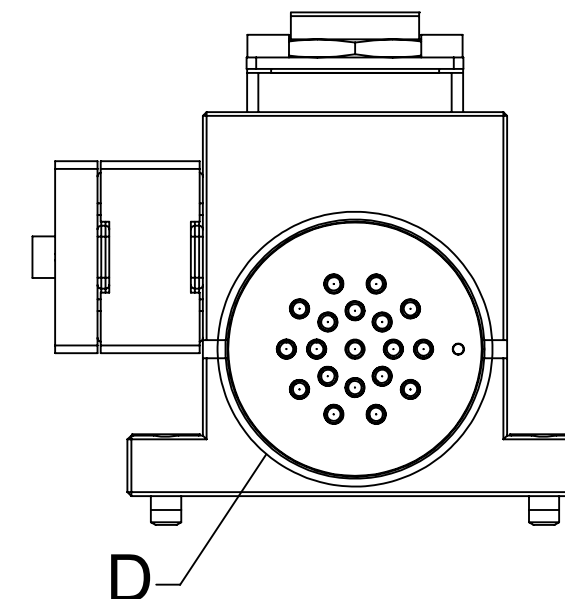
**9120-RF14-T**



DETAIL B  
SCALE 2 : 1



DETAIL D  
SCALE 2 : 1



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3rd ANGLE PROJECTION

DRAWN BY: J. Williams, 11/21/07

CHECKED BY: D.Lawson, 11/26/07

PROJECT # 071101-1 SHEET 2 OF 3

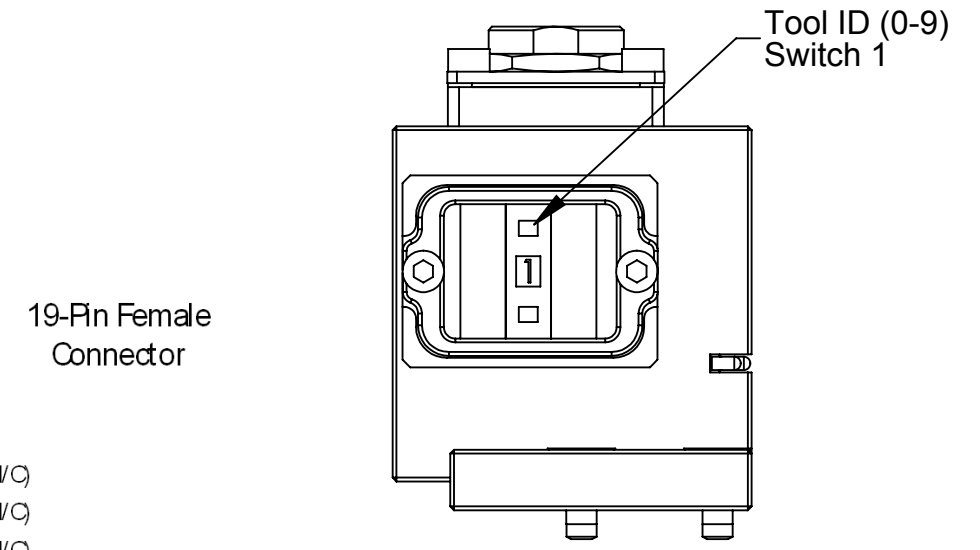
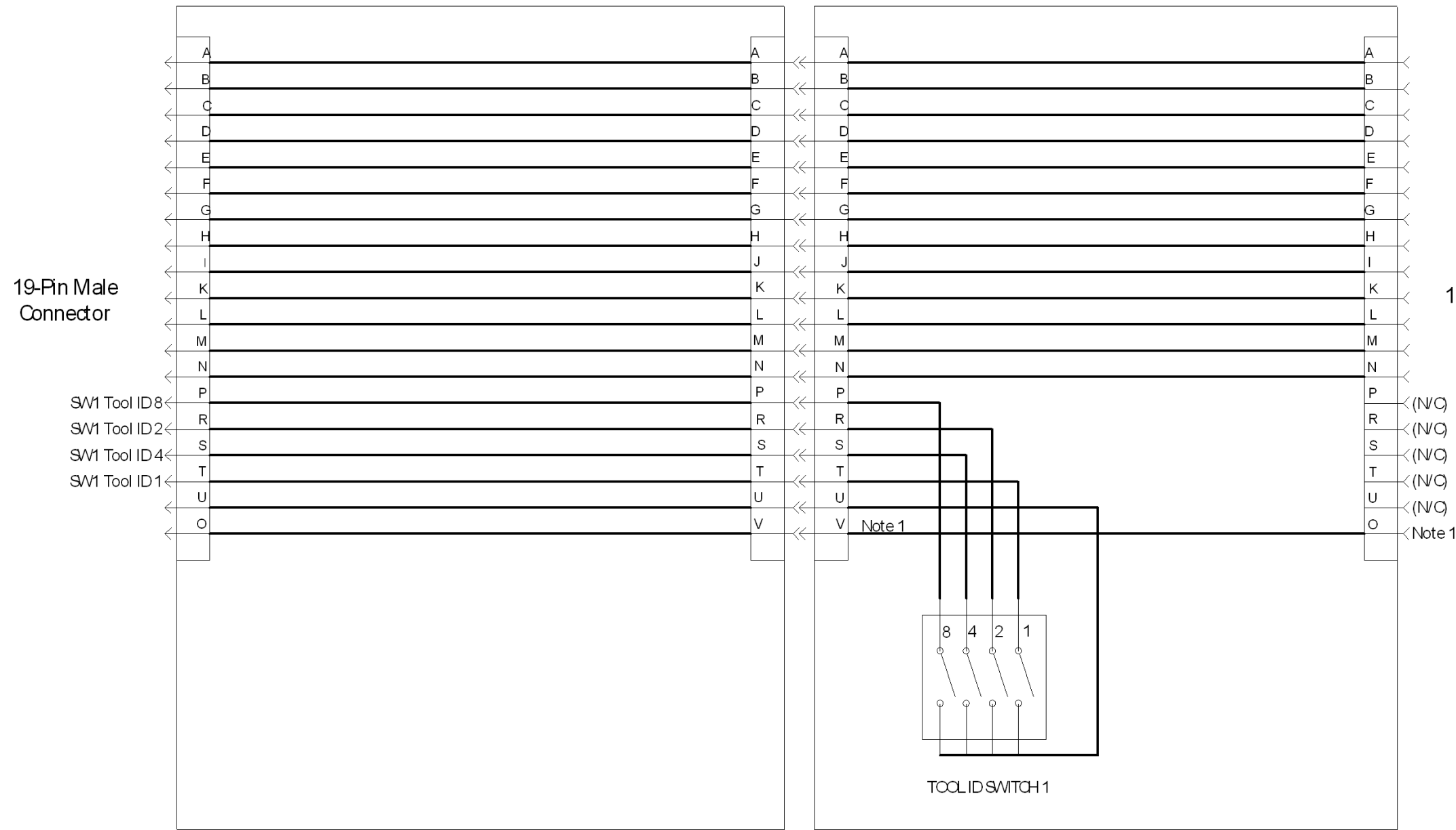
TITLE  
RF19 Master with RF14 Tool Module Drawing

SCALE	SIZE	DRAWING NUMBER	REVISION
1:1	B	9630-20-RF19M RF14T	05

# 9120-RF19-M

# 9120-RF14-T

ATI 19-Pin Block

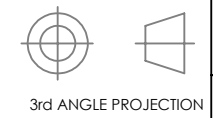


**TABLE 1: TOOL ID BINARY OUTPUT**

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

- Notes:**
- Pin "O" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
  - Pin "U" is common for tool ID (5-50 VDC 100mA Max).

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DRAWN BY: J. Williams, 11/21/07		TITLE	
CHECKED BY: D.Lawson, 11/26/07		RF19 Master with RF14 Tool Module Drawing	
PROJECT #	071101-1	SHEET	3 OF 3
SCALE	1:1	SIZE	B
DRAWING NUMBER		REVISION	
9630-20-RF19M RF14T		05	