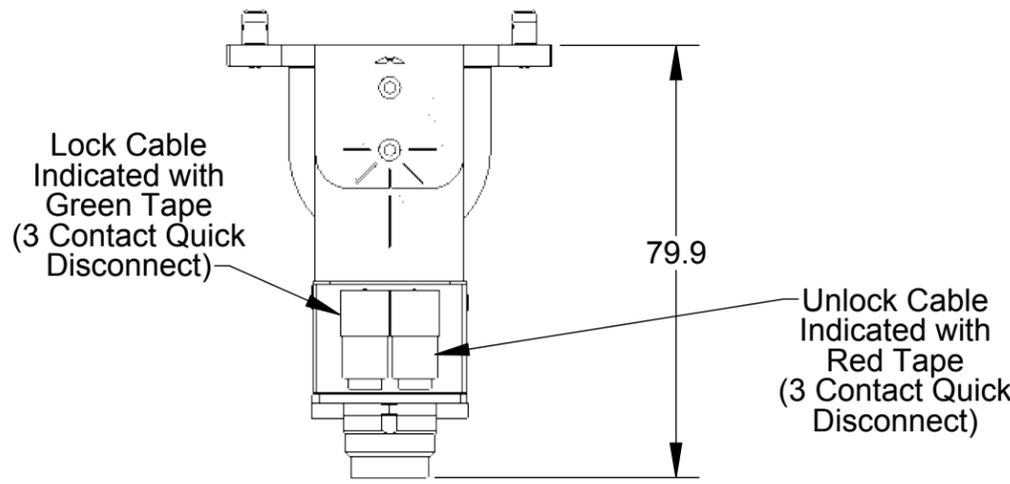
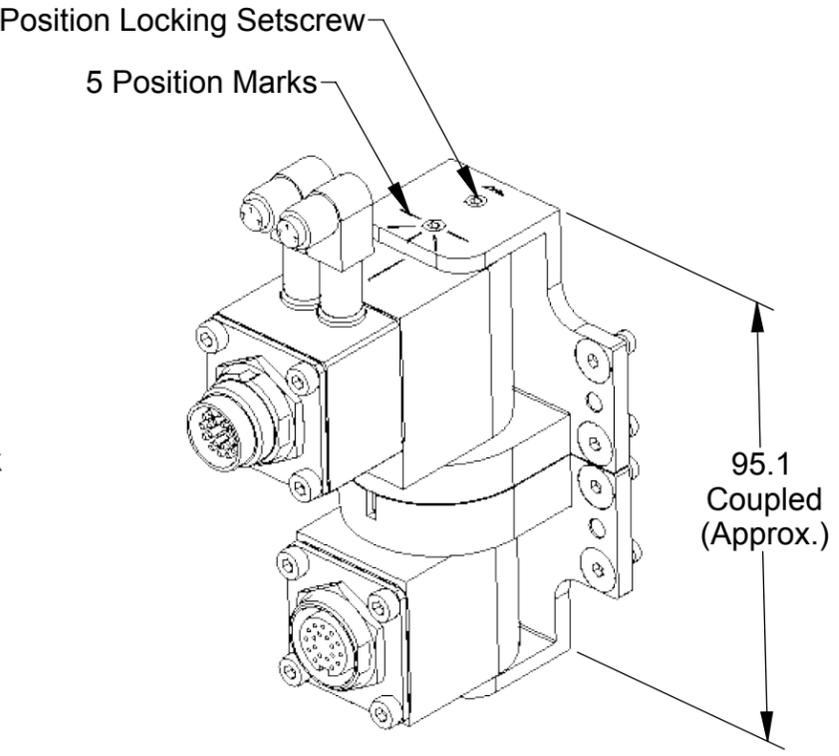


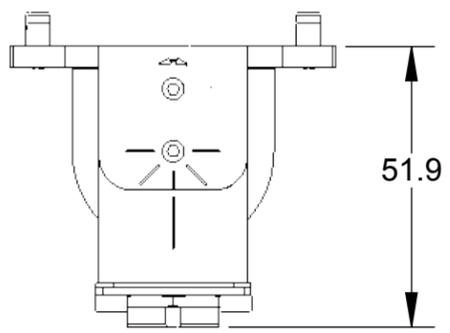
Rev.	Description	Initiator	Date
01	Initial Issue	JEW	11/13/07



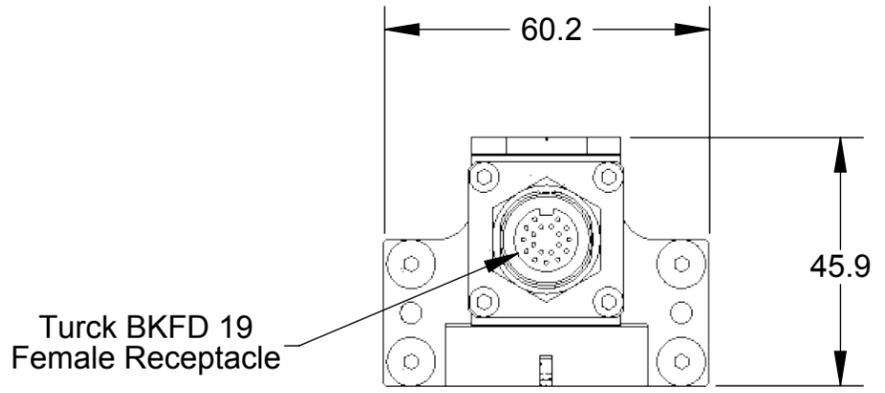
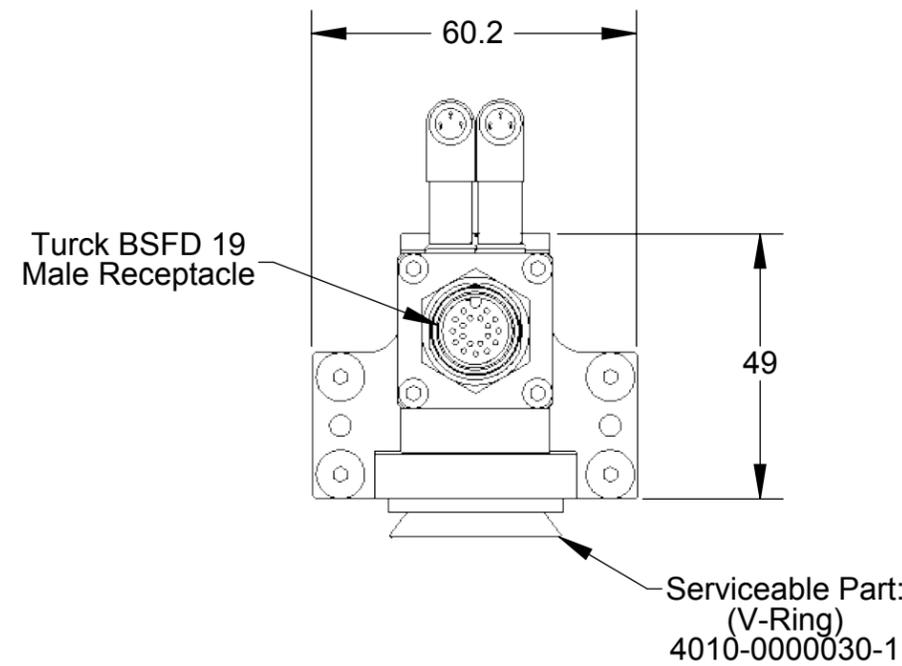
GF19R Master Module
(9120-GF19R-M)



Connectors shown in
Center Position

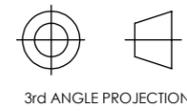


GF19 Tool Module
(9120-GF19-T)



- Notes:
1. The master and tool modules have (5) position options which can be adjusted as required.
 2. **WARNING:** The modules must be secured/Locked in a position prior to operation, otherwise internal damage to conductors will occur.

NOTES: UNLESS OTHERWISE SPECIFIED
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ORDER OR WITH PRIOR WRITTEN AUTHORIZATION OF ATI.

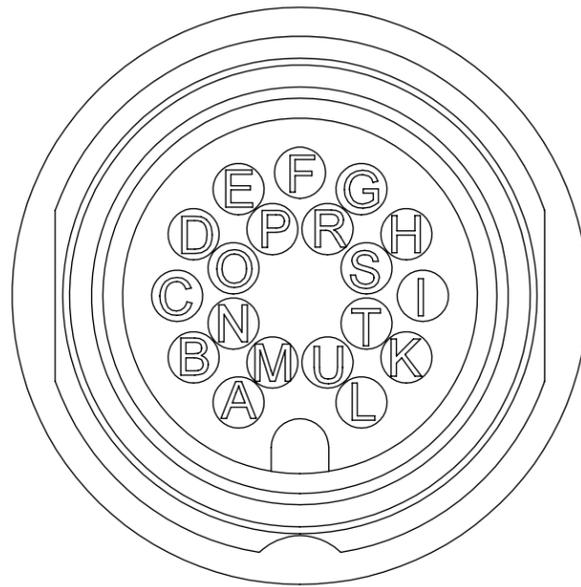


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DRAWN BY: J. Williams 11/13/07		TITLE	
CHECKED BY: D. Lawson 11/13/07		GF19R Master with GF19 Tool Module Drawing	
WEIGHT LBS: 0.21	SCALE 3:4	SIZE B	DRAWING NUMBER 9630-20-GF19RM GF19T-01
ASSEMBLY REF:	PRODUCT RELEASE # 071101-1 DATE:		SHEET 1 OF 2

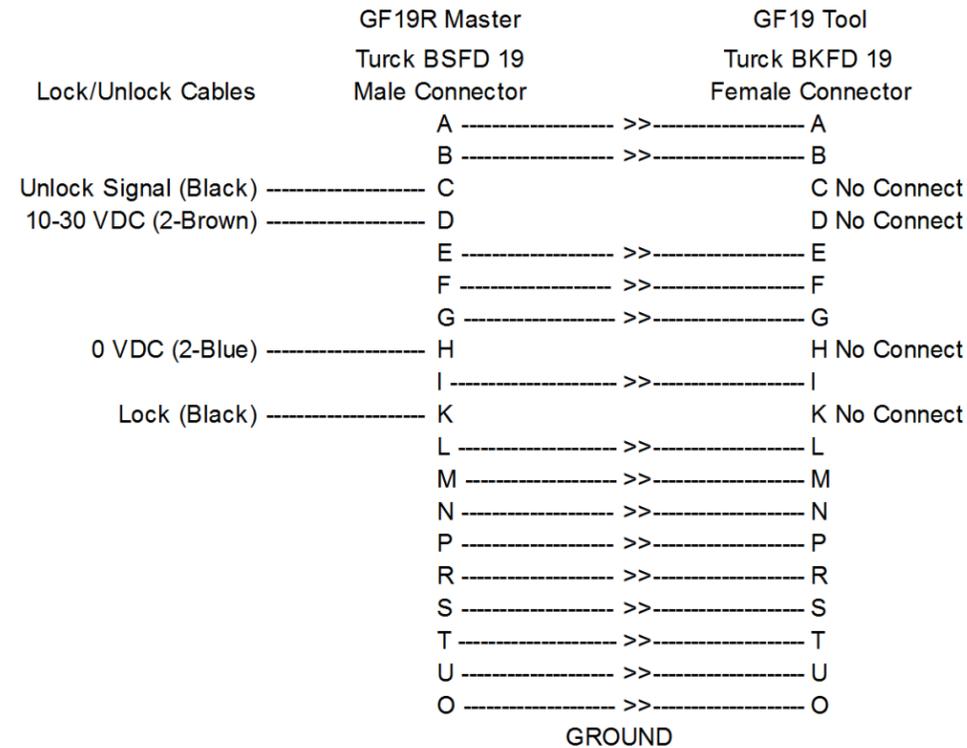
Rev.	Description	Initiator	Date
-	See Sheet1	-	-

Master Side Connector

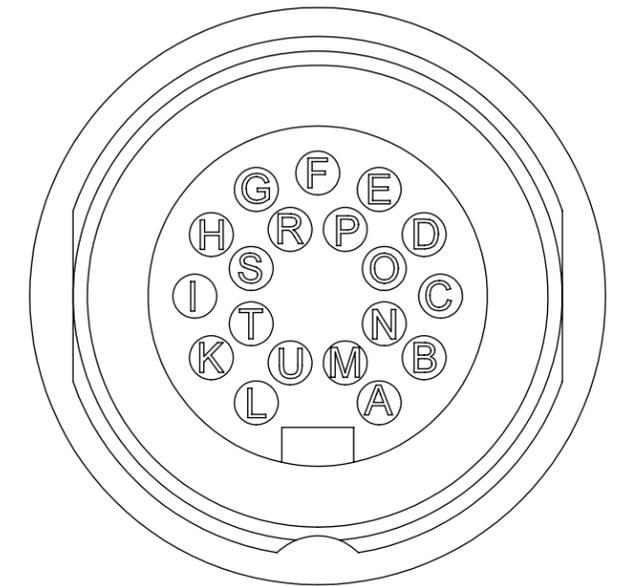


Turck BSFD 19
 Male Receptacle
 Scale 4:1

GF19R Master to GF19 Tool



Tool Side Connector

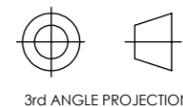


Turck BKFD 19
 Female Receptacle
 Scale 4:1

Notes;

- Pin "O" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
- Customer must supply 10-30 VDC on Master Pin "D", 0VDC on Pin "H".
- Lock/Unlock signals will be returned on master connector pin "K" & "C" respectively.
- DANGER!** -For electrical modules using >60 VDC 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.

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DRAWN BY: J. Williams 11/13/07		TITLE GF19R Master with GF19 Tool Module Drawing	
CHECKED BY: D. Lawson 11/13/07		SCALE 3:4	DRAWING NUMBER 9630-20-GF19RM GF19T-01
WEIGHT LBS: 0.21		SIZE B	ASSEMBLY REF:
PRODUCT RELEASE # 071101-1		DATE:	SHEET 2 OF 2