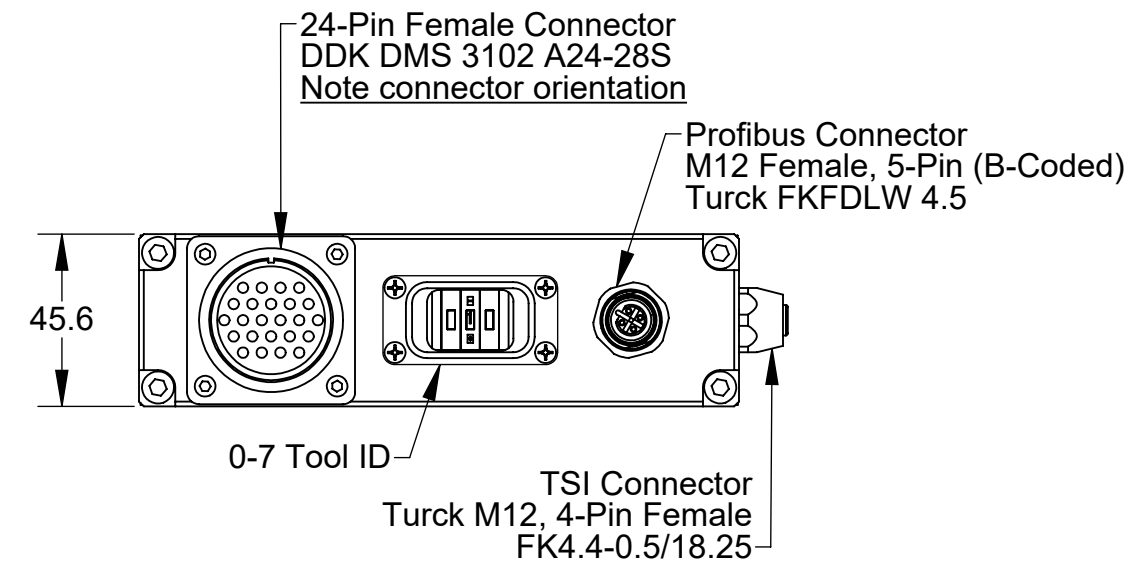
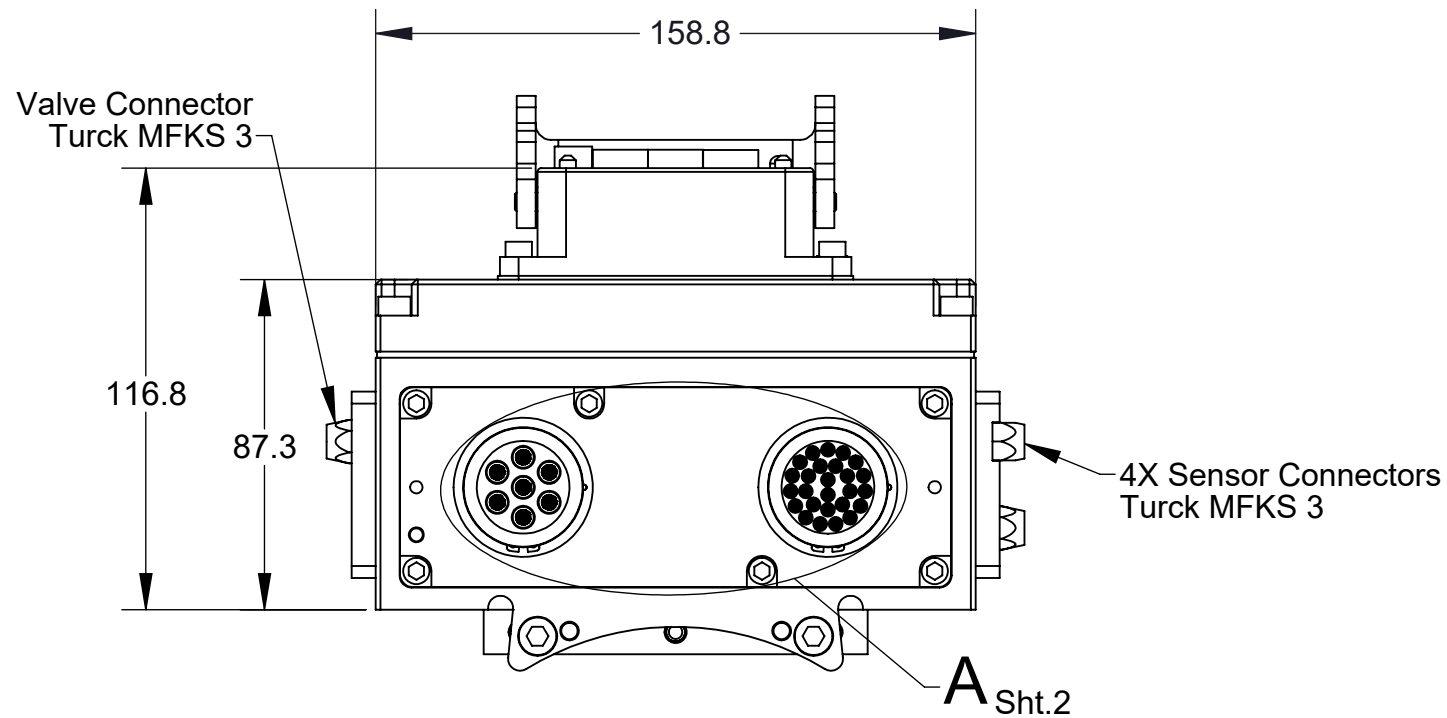
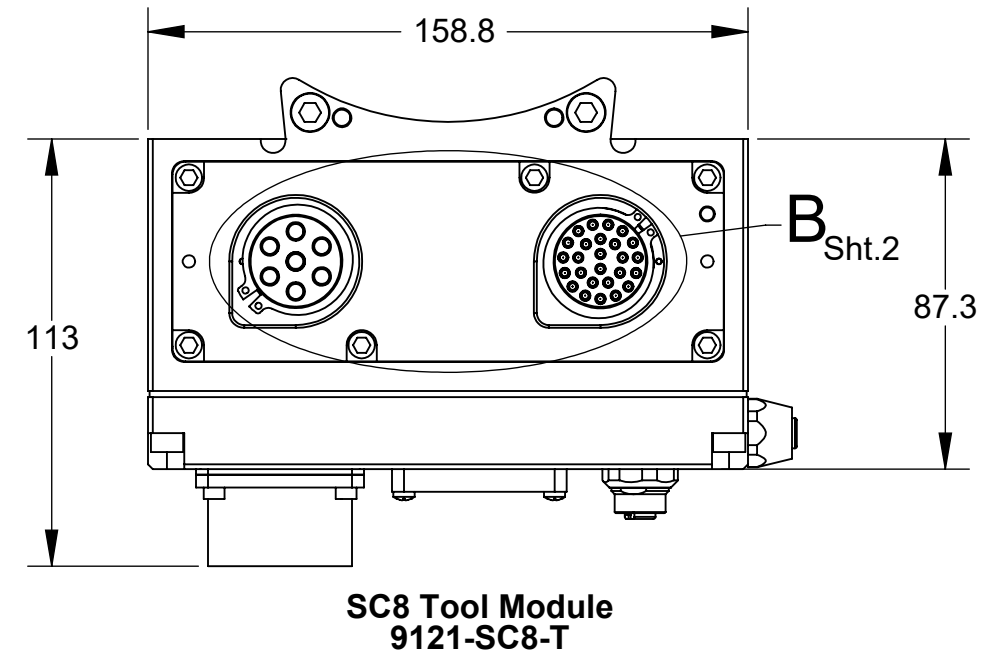
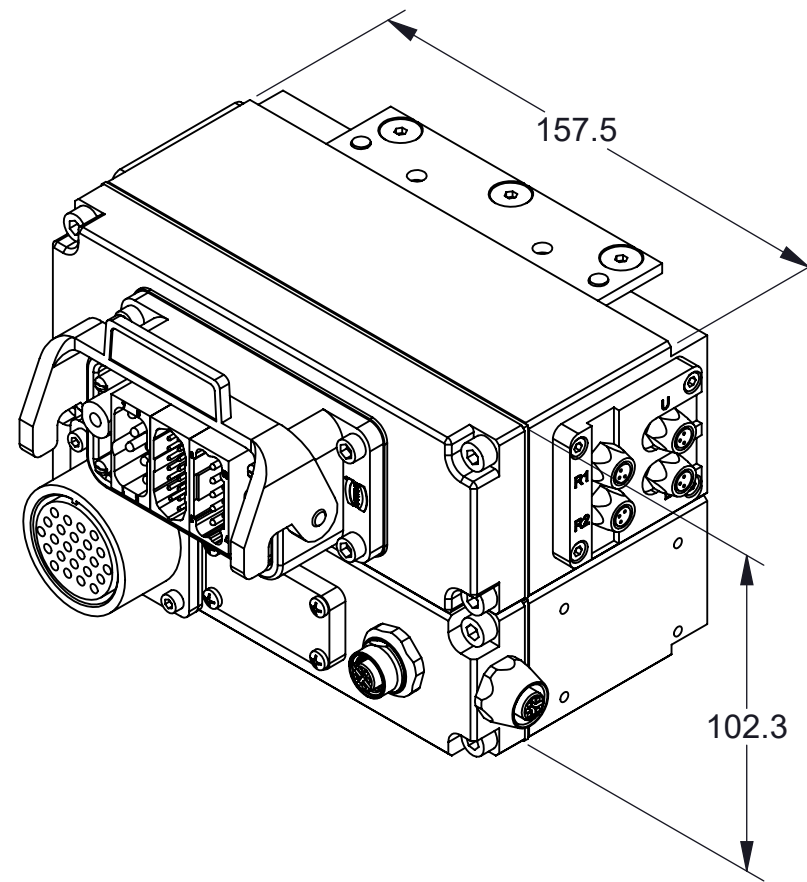
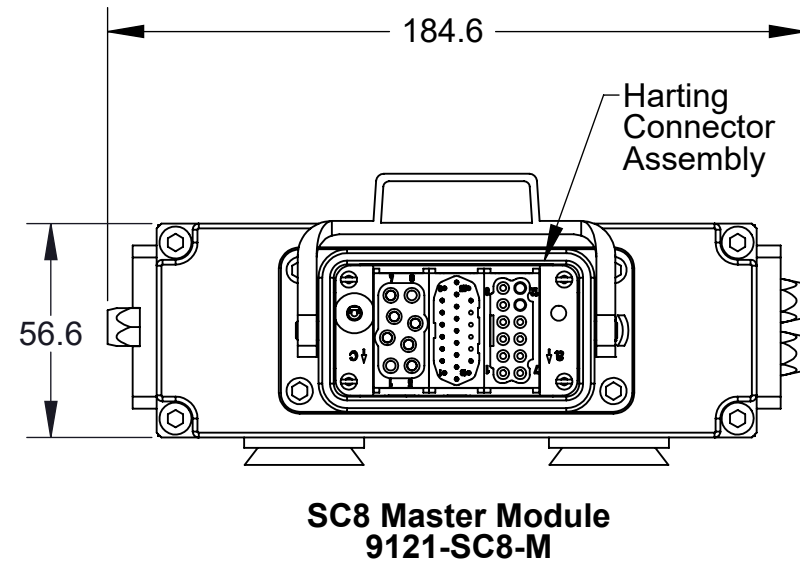


" DANGER!" - Electrical Shock Hazard

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."

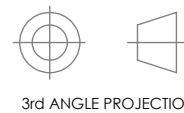
Rev.	Description	Initiator	Date
09	ECO 20366: 9121-SC8-T: Replaced 9005-20-1797 with 9005-20-1837.	TBC	1/14/2022



- Notes:
1. Pin Block pin assignment information on Sheet 2.
 2. Connector details and pin assignment information on Sheet 3.
 3. Electrical schematic and functional notes on Sheet 4.

NOTES: UNLESS OTHERWISE SPECIFIED.

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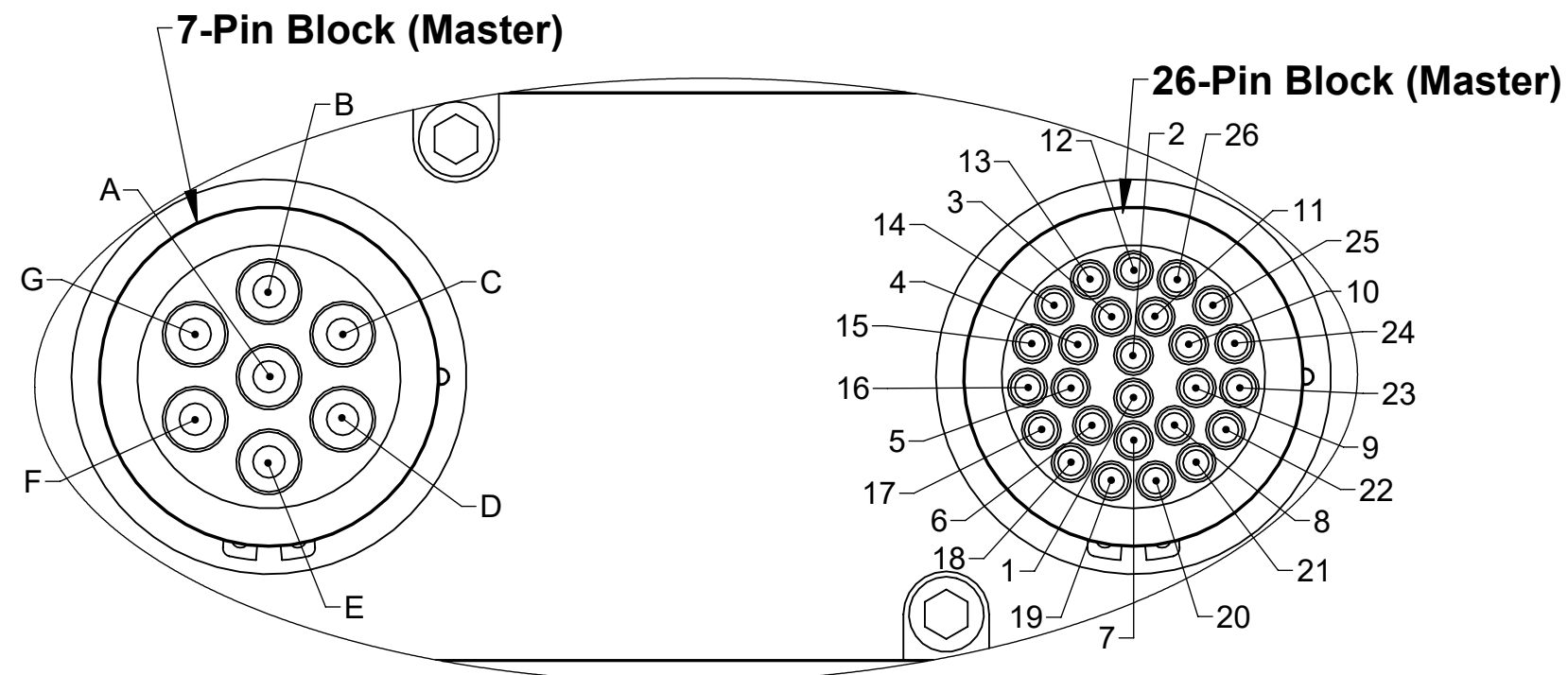
3rd ANGLE PROJECTION



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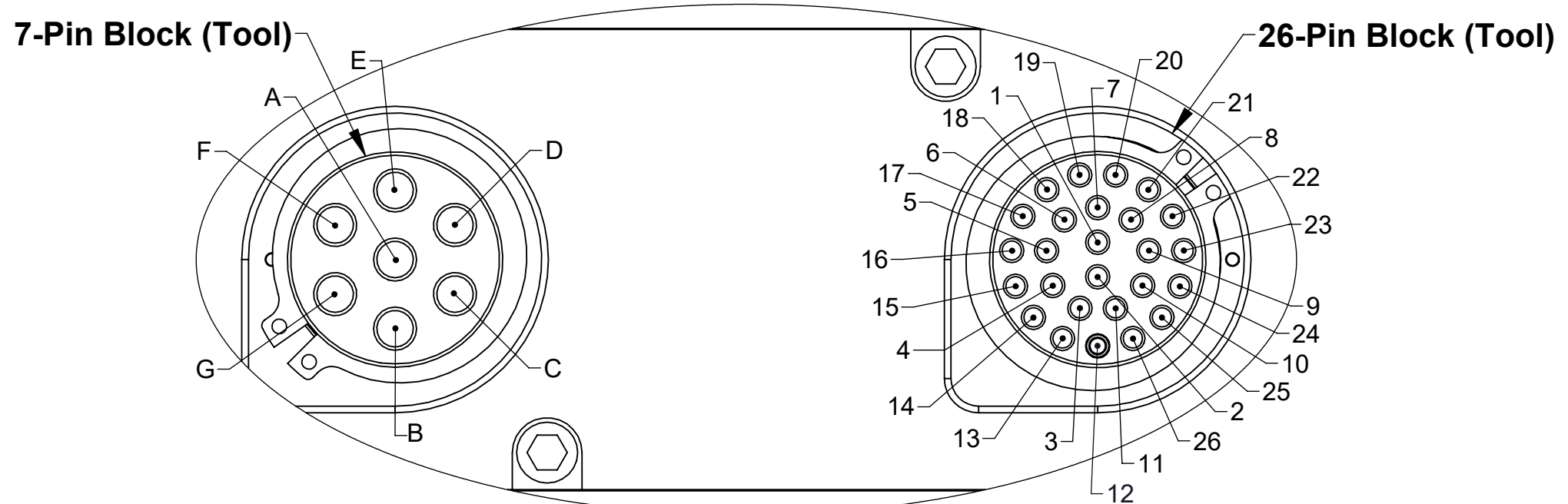
DRAWN BY: W. Berrocal, 4/27/10		TITLE	
CHECKED BY: D. Mushow, 5/6/10		SC8 Module Drawing	
PROJECT # 100430-3	SHEET 1 OF 4	SCALE 1:2	SIZE B
		DRAWING NUMBER 9630-20-SC8	REVISION 09



Master Side Pin Blocks
Scale 3:2

A	PE
B	available
C	available
D	24V
E	0V
F	24V
G	0V

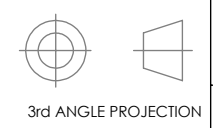
1	Close-gun
2	Gun_open
3	Gun_hlift_open
4	Equalize
5	Tool ID4
6	Tool ID2
7	Tool ID1
8	Temp_OK
9	24V
10	OPEN_hlift
11	CLOSE_hlift
12	KSR1
13	KSR2
14	available
15	available
16	available
17	available
18	available
19	available
20	available
21	available
22	RXD/TXD-P
23	RXD/TXD-N
24	TSI Out
25	N/C
26	TSI In



Tool Side Pin Blocks
Scale 3:2

NOTES: UNLESS OTHERWISE SPECIFIED.

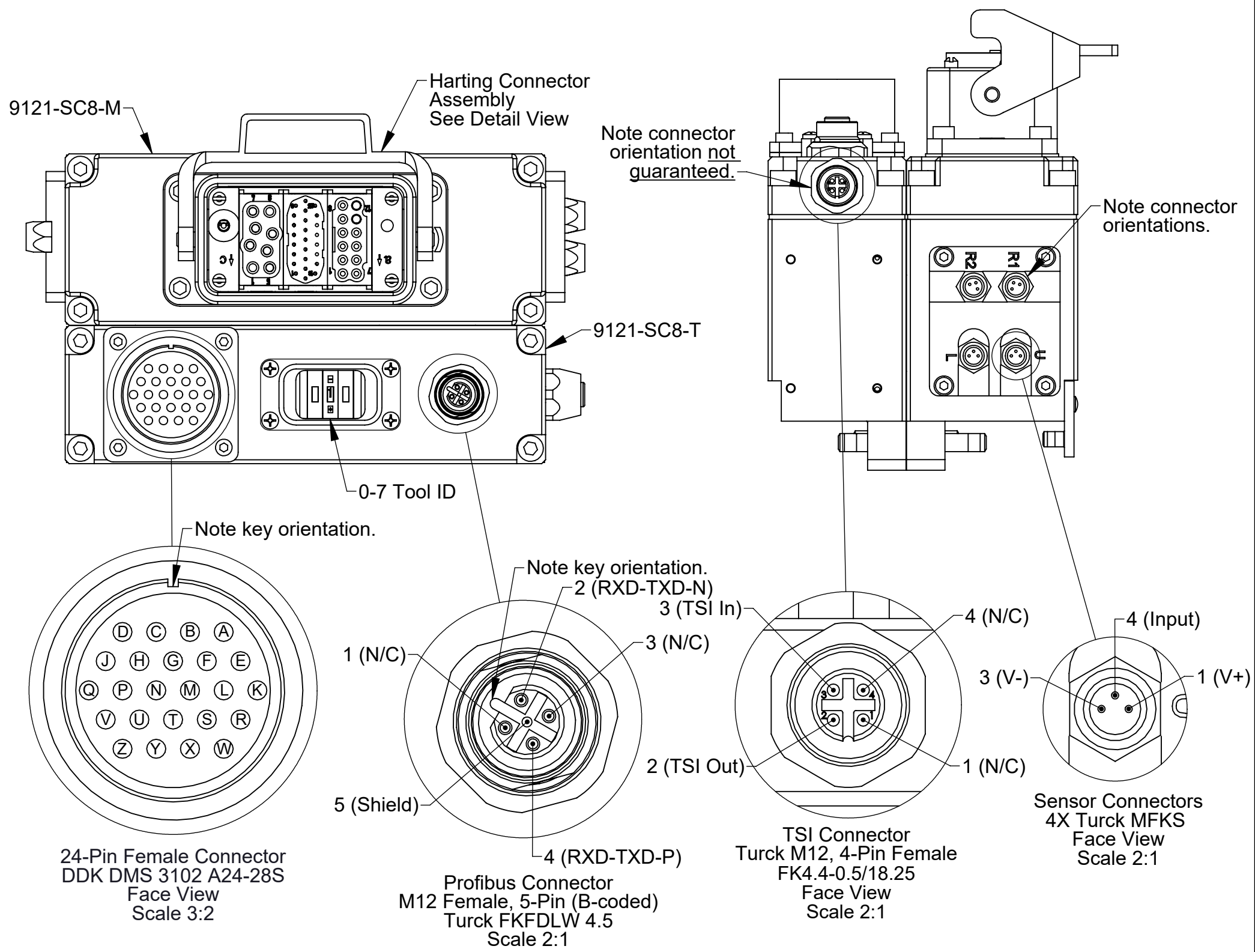
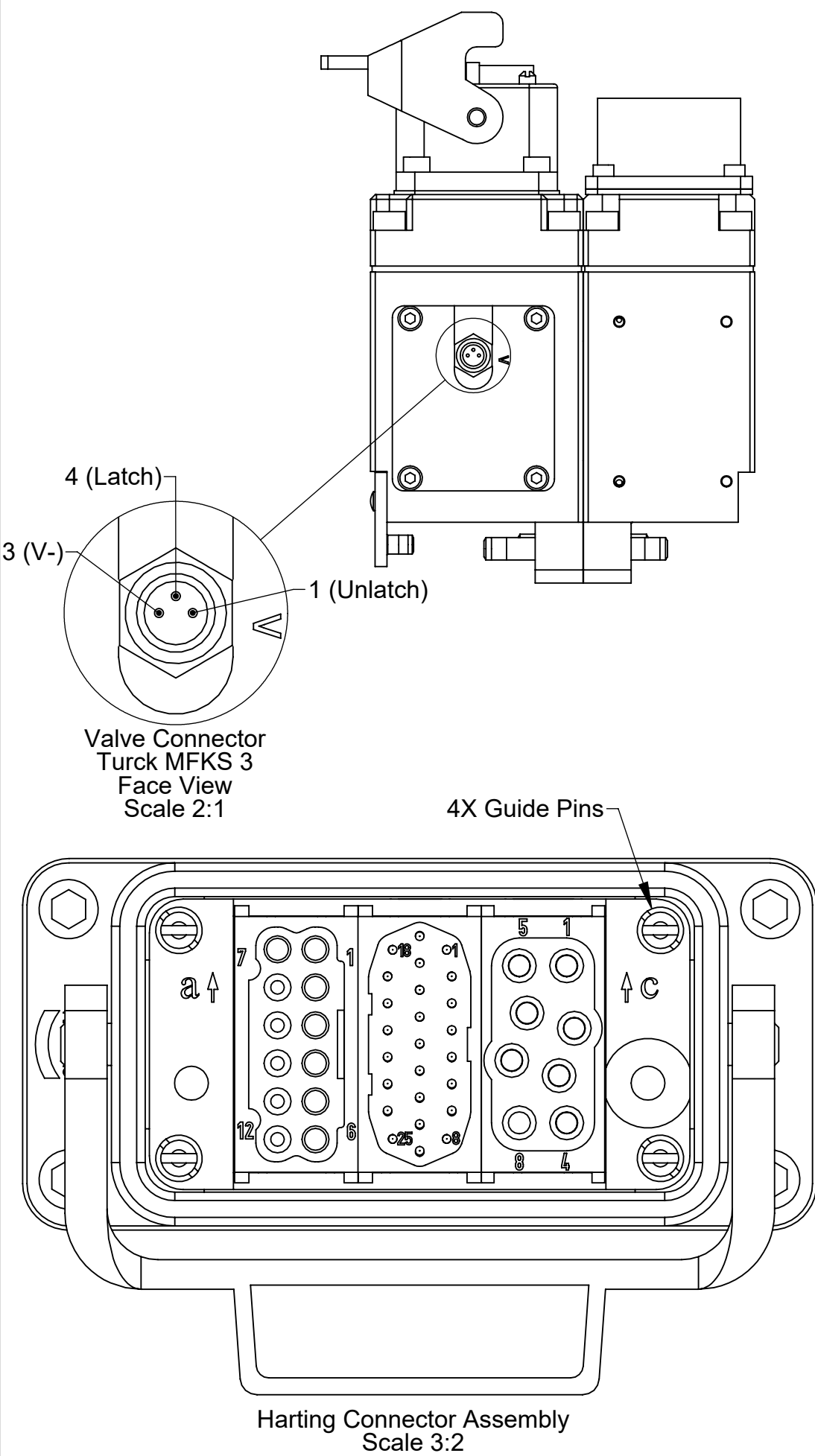
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PROJECT # 100430-3	SHEET 2 OF 4	SCALE 1:2	SIZE B	DRAWING NUMBER 9630-20-SC8
				REVISION 09



NOTES: UNLESS OTHERWISE SPECIFIED.

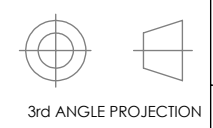
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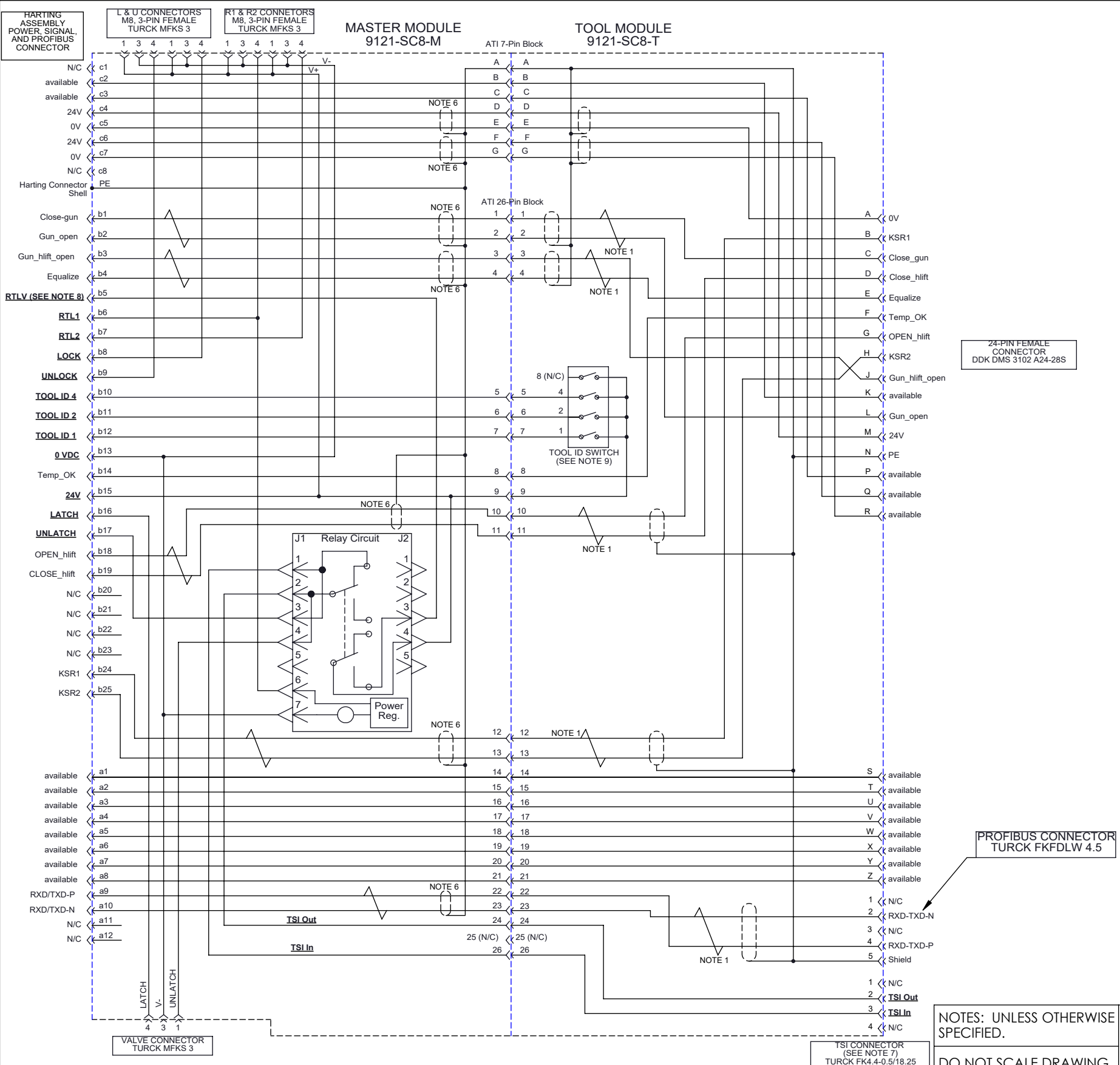


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PROJECT # 100430-3	SHEET 3 OF 4	SCALE 1:5	SIZE B
		DRAWING NUMBER	REVISION
		9630-20-SC8	09





Schematic Notes:

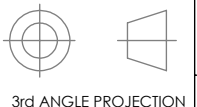
1. The indicated wire pairs are twisted in the Master and Tool.
2. ATI Tool Changer control and sensor signals are identified as bold and underlined.
3. **IMPORTANT:** Power for the L, U, RTL1, and RTL2 sensors and for the Lock/Unlock solenoid in the Valve Adapter are provided by 24V from the SC8 Master Module. It is recommended that sensor power and ground be unswitched.
4. Cables for Harting and DDK connectors are supplied by the customer.
5. The Profibus Shield is connected to PE via the Harting Connector Shell.
6. The indicated wire pairs are shielded in the Master and Tool. The shields are connected to PE via the Harting Connector Shell.
7. The Tool Stand Interlock (TSI) circuit is provided to **ONLY** allow tool release while in the stand or storage location as indicated by actuation of a customer-integrated switch. It is suggested that the customer integrate a single pole, single throw (Normally Open, 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.
8. The RTL1 sensor is very important to the operation of the TSI feature and should be monitored for failure. The RTLV input is provided for fault monitoring of this circuit. Please consult the product manual for operation and fault monitoring recommendations.
9. Positions 8 and 9 on the Tool ID switch are **NOT** unique Tool ID's. Refer to Table 3 for the Tool ID output (Note: Use b15 of the Harting Connector (Master Side) as common).

Table 3: Tool ID Output

Switch Position	Harting Connector (Master)		
	b10	b11	b12
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1
8	UNUSED (See Note 9)		
9	UNUSED (See Note 9)		

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PROJECT # 100430-3	SHEET 4 OF 4	SCALE 1:10	SIZE B
		DRAWING NUMBER 9630-20-SC8	REVISION 09