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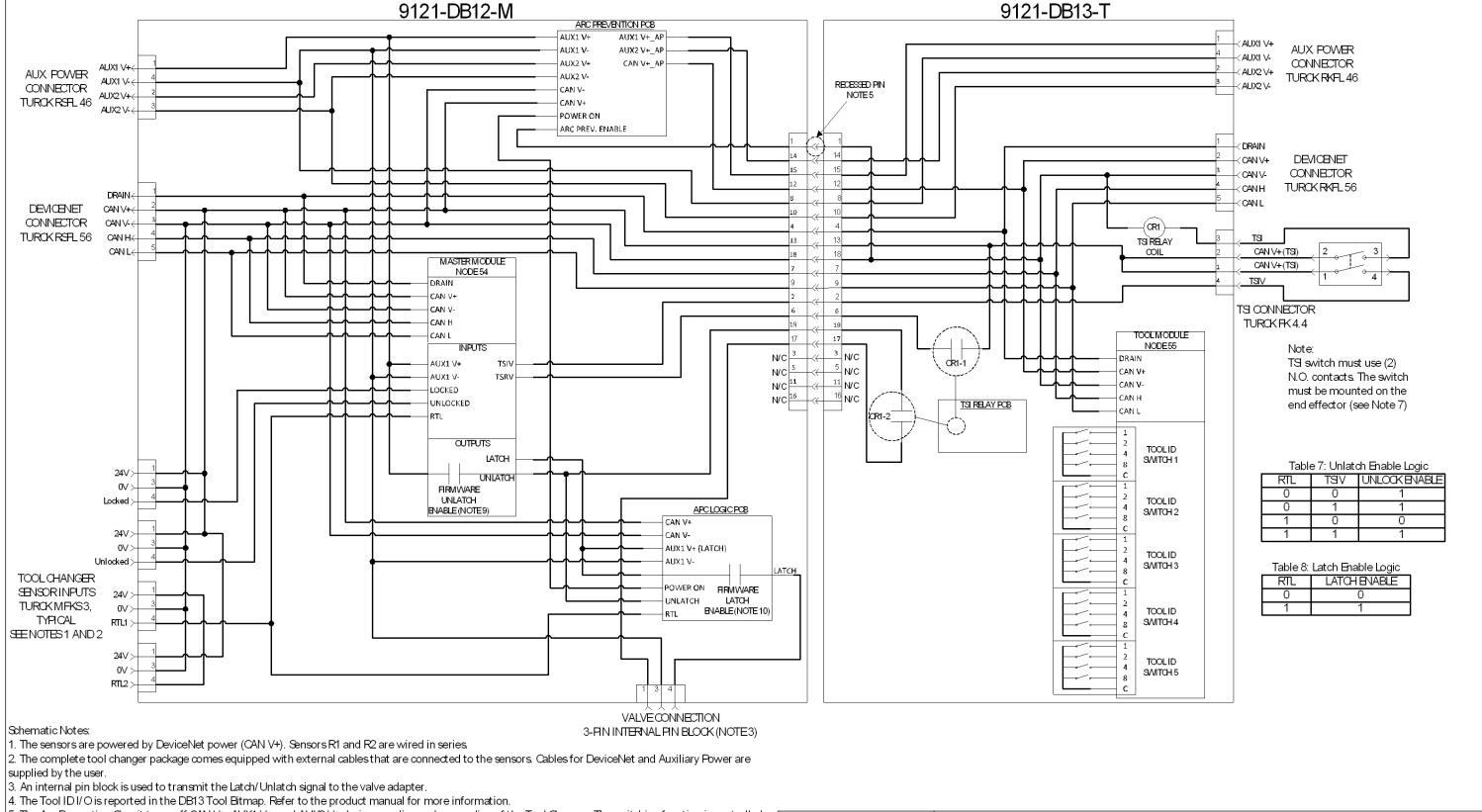
CHECKED BY: M. Manning, 7/3/13

DB12-M, DB13-T DeviceNet Module Drawing

DRAWING NUMBER SCALE PROJECT # 130522-1 SHEET 2 OF 3 1:2 9630-20-DB12M DB13T

REVISION

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- 5. The Arc Prevention Circuit turns off CAN V+, AUX1 V+, and AUX2 V+ during coupling and uncoupling of the Tool Changer. The switching function is controlled by the Latch/Unlatch commands and Arc Switch Enable signal. The Arc Switch Enable is transmitted via a recessed pin in the Tool side Pin Block. This ensures that all of the spring probes and contact pins are touching when power is turned on.
- 6. The DB13-T is equipped with a Tool Stand Interlock (TS) connector that is wired directly into the unlock solenoid valve circuit. Using this connector, a switch can be integrated that will allow the solenoid valve to uncouple the Tool Changer only when the Tool is in the Tool Stand. Note: ONLY double-solenoid valves are supported.
- 7. The limit switch connected to the TS connector must have two sets of N.O. contacts (double-pole, single-throw). A limit switch is available from ATI (PN 9005-20-1165) but is not included with the DB13-T module. Contact ATI for specific switch requirements.
- 8. TS related diagnostic bits are not shown on this schematic but are reported in the DB12 Master Bitmap. Refer to the product manual for details.
- 9. Unlatch enable is a virtual bit used to determine under what conditions the module disables the Unlatch command to prevent an unwanted tool release. The internal logic is listed in Table 7.
- 10. Latch enable is a virtual bit used to determine under what conditions the module disables the Latch command. Latch Enable prevents the Tool Changer from locking when there is no Tool attached. The internal logic is listed in Table 8.

