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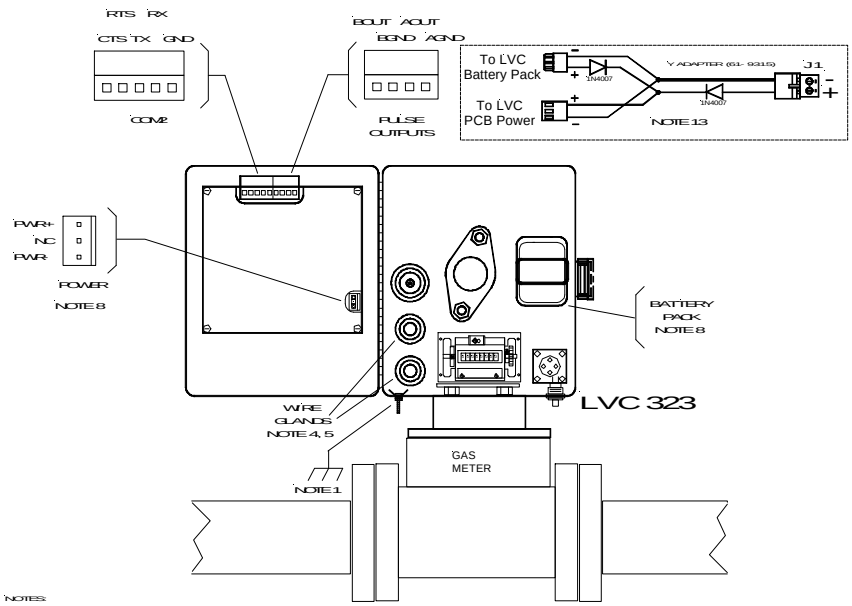
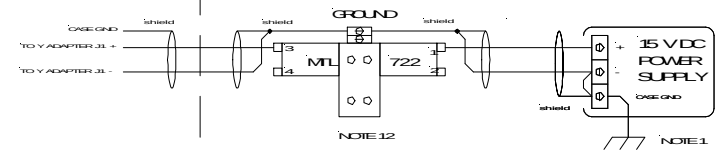
CLASS I, DIV.1, GROUP D HAZARDOUS AREA

NOTES 9, 11

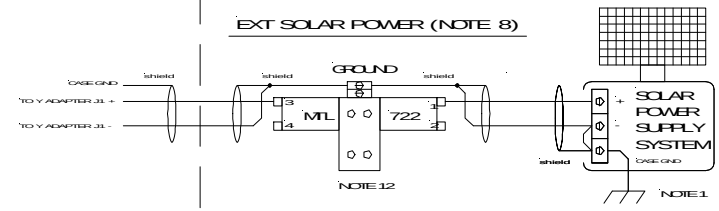


SAFE AREA

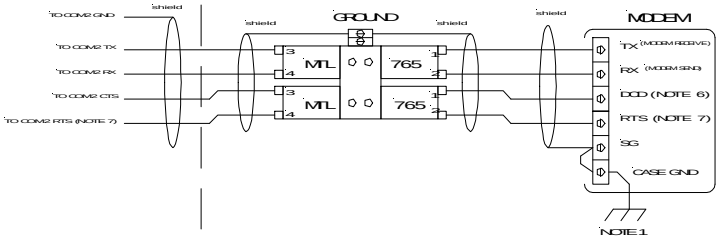
EXT AC POWER (NOTE 8)



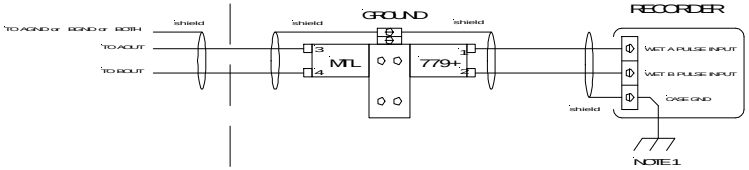
EXT SOLAR POWER (NOTE 8)



COMMUNICATIONS



PULSE OUTPUTS



NOTES:

1. ALL SYMBOLS INDICATE A SINGLE EXTERNAL EARTH GROUND.
   THE RESISTANCE TO EARTH GROUND MUST BE LESS THAN 1 Ohm
2. WHERE SPECIFIED, SYMBOLS ARE SHOWN, INDICATING USE OF GROUNDED, SHIELDED CABLE.
   ALL SHIELDING PENETRATING 323 ENCLOSURE MUST BE TIED TO CASE GROUND.
3. ALL UNUSED CONDUCTORS, IN MULTICONDUCTOR CABLES, MUST BE TIED TO CASE GROUND OF LVC.
4. MULTICONDUCTER CABLE MUST BE SELECTED AS FOLLOWS:
   a) IT IS REQUIRED THAT COMMUNICATION, PULSE OUTPUTS AND EXT POWER FUNCTIONS USE DIFFERENT JACKETED CABLES.
   b) ALL CABLES MUST BE ROUTED THROUGH WIRE GLANDS.
   c) USE BELDON - OR EQUIVALENT (SINGLE or INDIVIDUAL PAIRS SHIELDED).
5. WIRE GLANDS SHALL ACCOMODATE PROPER WIRE (OR WIRE BUNDLE) SIZE TO ENSURE PROPER WEATHER SEAL.
6. MODEM DCD SHALL BE CONNECTED TO LVC CTS.
7. RTS MAY BE REQUIRED BY SOME RADIO MODEMS AND WHEN NOT REQUIRED, MAY BE OMITTED.
8. THE LVC 323 IS POWERED BY REYNOLDS EQUIPMENT BATTERY PACK, PART No. 61- 9070 or EXTERNAL SOURCE NOT TO EXCEED 15 VOLTS DC.
9. INTRINSICALLY SAFE WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 504 OF THE NEC ANSI/NFPA 70 AND THE CANADIAN ELECTRICAL CODE.
10. PERIPHERAL SAFE AREA EQUIPMENT SHALL NOT USE OR GENERATE MORE THAN 250 VAC.
11. THE MAXIMUM CABLE LENGTH BETWEEN THE LVC 323 AND BARRIERS IS 100 FEET.
12. BARRIER MODELS MTL722 or MTL768 OR EQUIVALENTS SHALL BE USED.
13. USE Y- ADAPTER (REYNOLDS 61- 9315) WHEN EXTERNAL POWER IS USED. Y- ADAPTER TO BE LOCATED INSIDE OF LVC.

DRAWN BY: CLJ	REVISION DETAILS:	323 (STANDARD) CONTROL DRAWING
CHECKED:	Revised commbarrier to 765 (for AC modem RS 232 levels) 1-24-01 CLJ	
APPROVED:	Revised pulse barrier to 779+ (for 24 volt pulse systems) 1-24-01 CLJ	
DATE: 12-5-00		
REVISION:		DRAWING NO. 60-9022 CD

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