

SX 165/250 Multipoint Recorder

Wiring Diagrams

THERMOCOUPLE EXTENSION WIRE TABLE					
THERMOCOUPLE COMBINATION	EXTERNAL TO INSTRUMENT			INTERNAL OF INSTRUMENT	
	DUPLEX		SINGLE COND.		
+	+	INTERNAL	+	+	+
COPPER CONST. TYPE I	COPPER R	CONST. R	COPPER B	CONST. R-B	COPPER W-G
IRON CONST. TYPE J	IRON W	CONST. R	IRON W	CONST. R-W	IRON M-K
CHROMEL CONST. TYPE E	CHROMEL Y	CONST. R	CHROMEL Y	CONST. R-Y	CHROMEL W-V
CHROMEL ALUMEL TYPE K	CHROMEL Y	ALUMEL R	CHROMEL Y	ALUMEL R-Y	COPPER W-G
PLAT. RHOD. PLAT. TYPE S or R	COPPER K	ALLOY R	COPPER K	ALLOY R-K	COPPER K-G

* THERMOCOUPLE WIRE USED AS EXTENSION WIRE

NOTES:

1. NOT FOR CUSTOMER CONNECTION. INTERNAL WIRING BY L&N.
2. L2 SIDE OF LINE SHOULD BE GROUNDED. IF LINE SUPPLY CANNOT BE GROUNDED, ADD ISOLATING TRANSFORMER AND GROUND L2 TERMINAL.
3. CUSTOMER WIRE:
 - a. SINGLE CONDUCTOR (SOLID OR STRANDED) #14 GAGE OR SMALLER.
 - b. DOUBLE CONNECTOR, #18 GAGE OR SMALLER.
4. SCREWS MUST BE TIGHTENED SECURELY, TORQUE MUST NOT EXCEED 60 OZ. IN.

COLOR CODE	
K - BLACK	Y - YELLOW
W - WHITE	A - GRAY
G - GREEN	V - VIOLET
R - RED	P - PINK
B - BLUE	S - SLATE
N - BROWN	T - TAN
O - ORANGE	

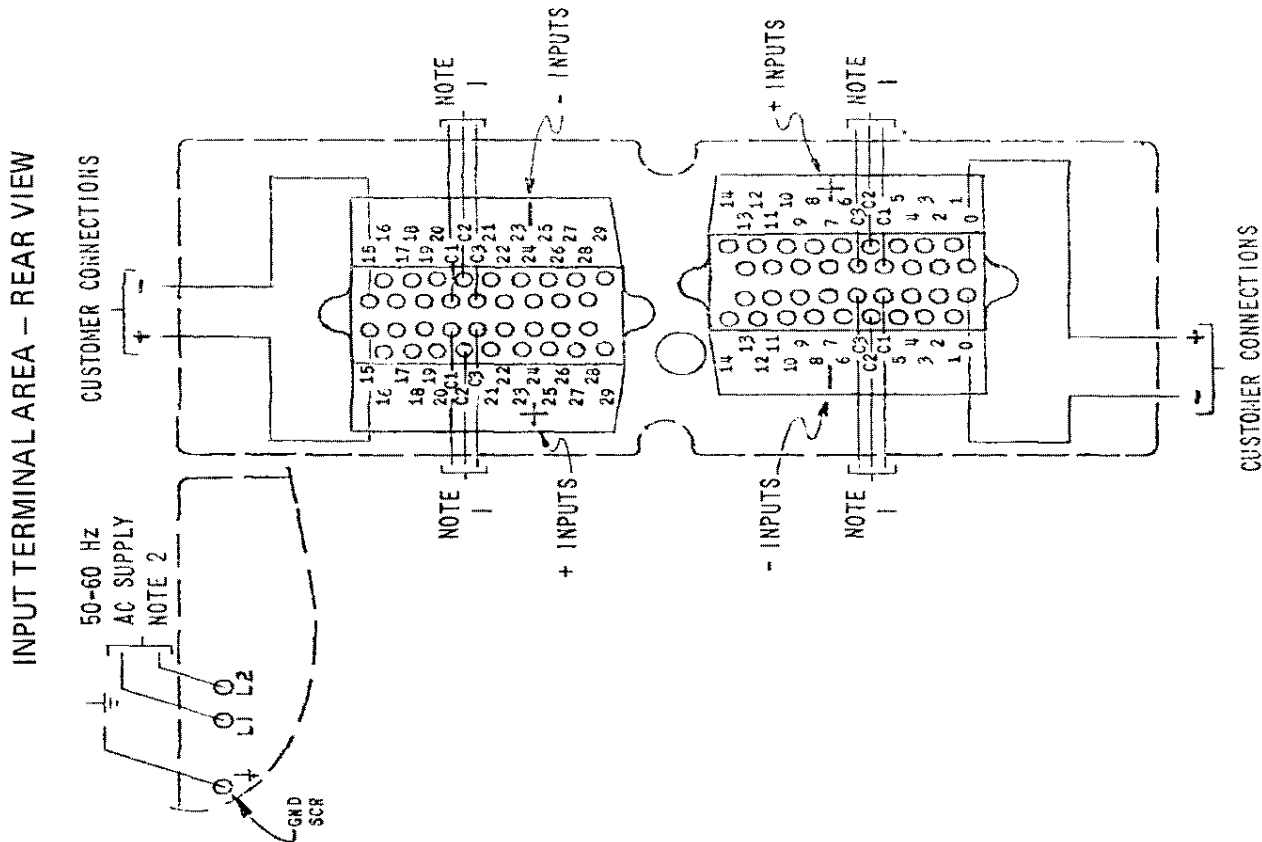


Fig. 1-8. Customer EMF/TC connections.

SX 165/250 Multipoint Recorder Wiring Diagrams

NOTES:

1. NOT FOR CUSTOMER CONNECTION, INTERNAL WIRING BY LAN.
2. L2 SIDE OF LINE SHOULD BE GROUNDED. IF LINE SUPPLY CANNOT BE GROUNDED, ADD ISOLATING TRANSFORMER AND GROUND L2 TERMINAL.
3. CUSTOMER WIRE:
 - A. SINGLE CONDUCTOR (SOLID OR STRANDED) #14 GAGE OR SMALLER.
 - B. DOUBLE CONDUCTOR, #18 GAGE OR SMALLER.
4. SCREWS MUST BE TIGHTENED SECURELY, TORQUE MUST NOT EXCEED 60 OZ. IN.
5. CONNECTIONS SHOWN FOR MAXIMUM NUMBER OF RTD POINTS ON 250 RECORDER. POINTS 0-14 AND/OR POINTS 15-28 CAN BE OMITTED. POINTS 0-14 AND/OR POINTS 15-28 CAN BE WIRING RANGE 1 OR MULTI-RANGE RECORDERS. THIS DIAGRAM IS FOR POINTS 0-14 AND/OR POINTS 15-28. RANGES OTHER THAN RTD REFER TO APPROPRIATE DIAGRAM ASSIGNMENT OF POINTS TO VARIOUS RANGES IS INDICATED ON THE INSTRUMENT LABEL ON INSIDE FLOOR OF CASE. ON 165 RECORDER CONNECTIONS ARE THE SAME. TB3 AND TB7 ARE IN THE SAME POSITION, 0-14 COMMONING BLOCK IS IN TB4 POSITION, TB4 AND 15-28 COMMONING BLOCK ARE NOT USED.
6. TB7 SUPPLIED WITH SWITCHED "B" LEAD OPTION. AUXILIARY T.B. SUPPLIED COMMONING BLOCK LEADS WITH COMMONED "B" LEADS FROM RANGE CARD (WIRED BY LAN) ARE CONNECTED TO TB7 FOR SWITCHED "B" LEADS OR FOR COMMONED "B" LEADS.
7. "A" & "B" LEADS TO RTD ELEMENT MUST BE EQUAL IN RESISTANCE.

CUSTOMERS CONNECTIONS

INPUT TERMINAL AREA - REAR VIEW

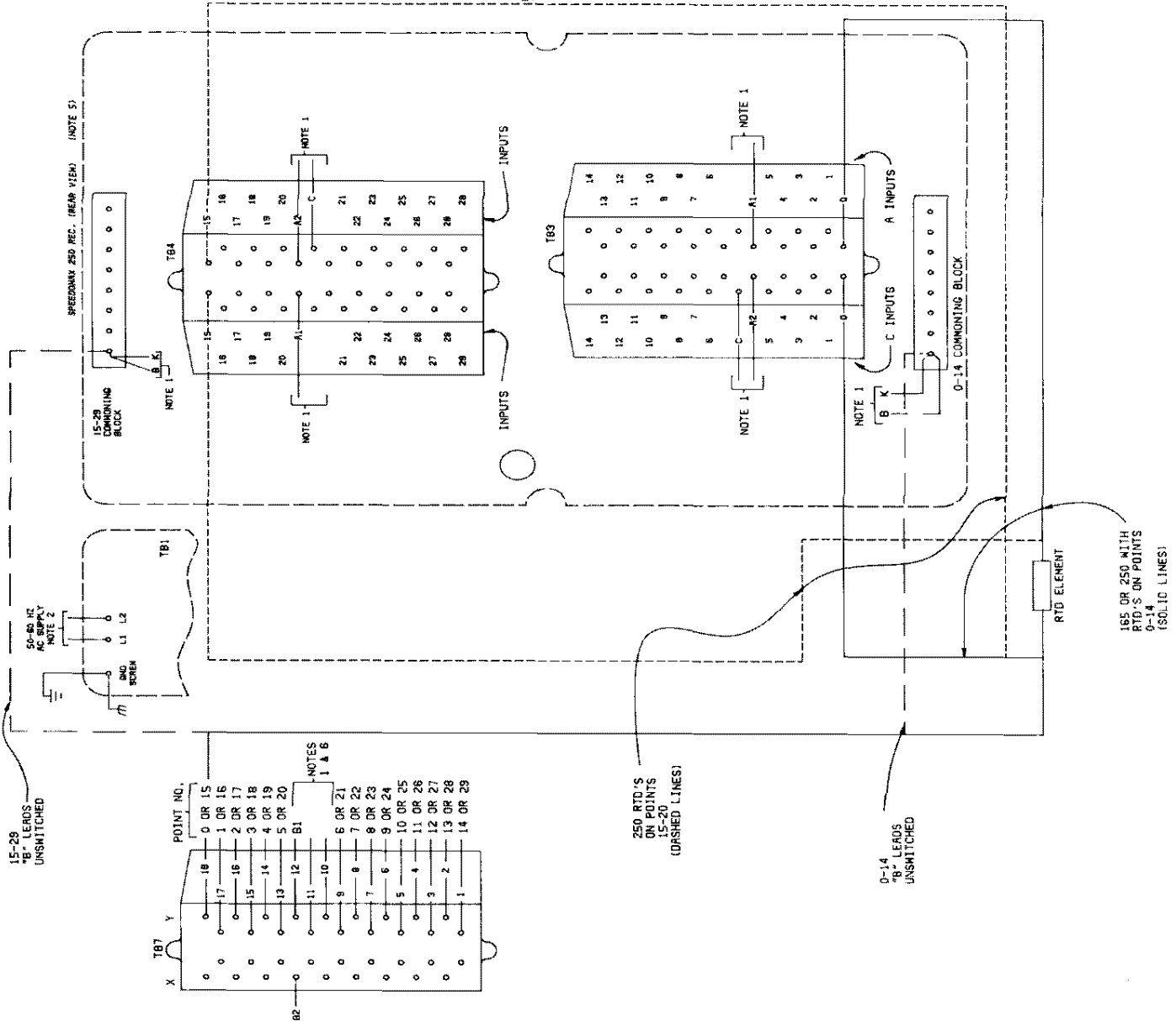


Fig. 1—9A. Customer RTD connections, Measuring Circuit 20 or 21.

SX 165/250 Multipoint Recorder Wiring Diagrams

NOTES:

1. NOT FOR CUSTOMER CONNECTION, INTERNAL WIRING BY L&N.
2. L2 SIDE OF LINE SHOULD BE GROUNDED. IF LINE SUPPLY CANNOT BE GROUNDED, ADD ISOLATING TRANSFORMER AND GROUND L2 TERMINAL.
3. CUSTOMER WIRE:
 - a. SINGLE CONDUCTOR (SOLID OR STRANDED) #14 GAGE OR SMALLER.
 - b. DOUBLE CONDUCTOR, #18 GAGE OR SMALLER.
4. SCREWS MUST BE TIGHTENED SECURELY, TORQUE MUST NOT EXCEED 60 OZ IN.
5. ON MULTIRANGE RECORDERS, THIS DIAGRAM IS FOR CONDUCTIVITY POINTS ONLY. FOR POINTS ON OTHER RANGES, SEE SEPARATE DIAGRAM. ASSIGNMENT OF POINTS TO VARIOUS RANGES IS INDICATED ON THE INSTRUMENT LABEL ON INSIDE FLOOR OF THE CASE.
6. TB7 SUPPLIED FOR USE WITH MULTIPLE AUTOMATIC TEMPERATURE COMPENSATORS. AUXILIARY T.B. SUPPLIED FOR USE WITH A SINGLE AUTOMATIC TEMPERATURE COMPENSATOR. LEAD FROM RANGE CARD (WIRED BY L&N) IS CONNECTED TO TB7 FOR MULTIPLE COMPENSATORS OR AUXILIARY TB FOR SINGLE COMPENSATOR.

CUSTOMERS CONNECTIONS

INPUT TERMINAL AREA - REAR VIEW

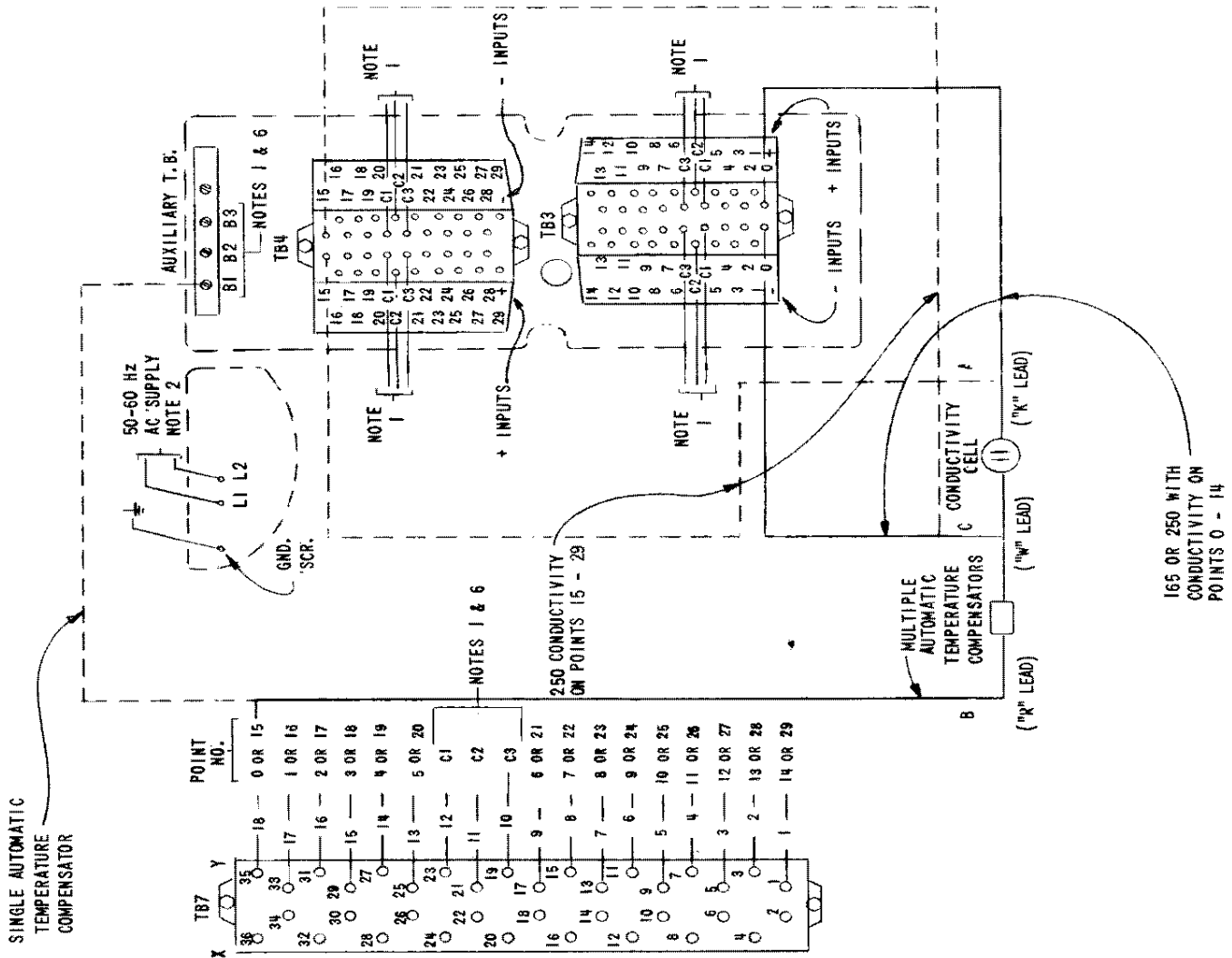


Fig. 1-9B. Customer conductivity connections.