

FIG. 1
CONNECTOR

TO SWITCH TROUBLE ALARM CIRCUIT

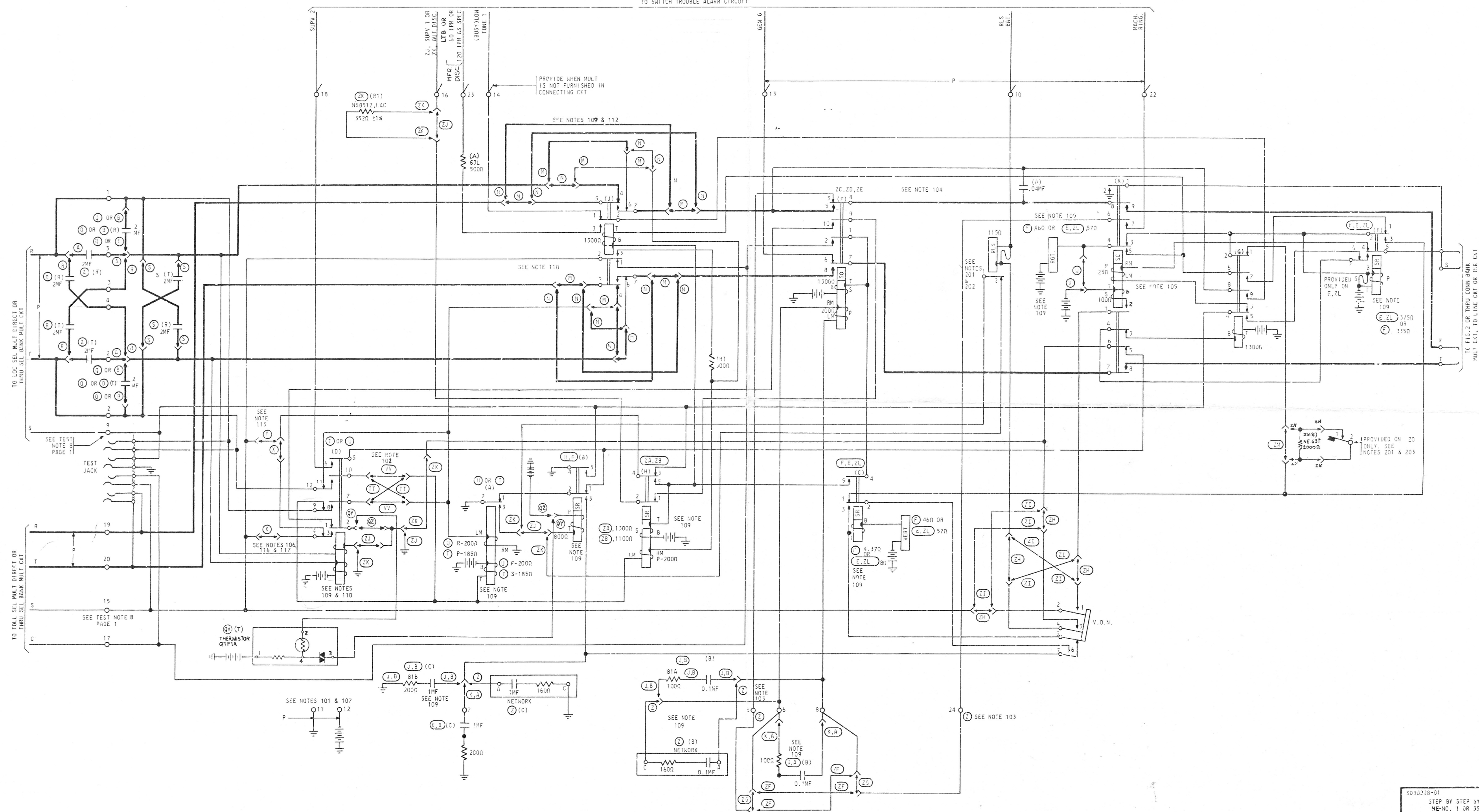
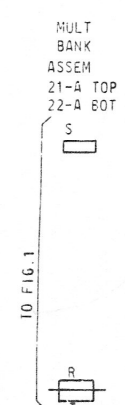


FIG. 2
(MFR DISC)
BANK MULT



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STEP BY STEP SYSTEMS
NE-NC. 1 OR 3504
CONNECTOR CIRCUIT
COMBINATION LOCAL AND LOCAL
LOOP DIALING TOLL TRAIN
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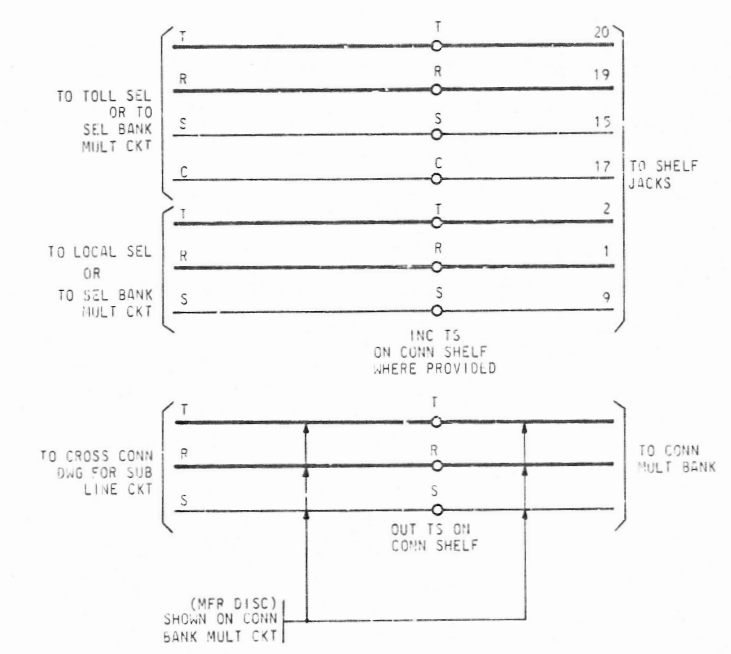
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FIG. K



TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 4000 LINES)

MAX. ALLOWABLE CKT. LOSS (db)

OPTION	MAX. ALLOWABLE CKT. LOSS (db)
"H" OPTION	0.9
"M" OPTION	0.7

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG.	CODE	MAX. LOSS	MIN. LOSS	REMARKS
CAPACITOR	R	2MF	14.5	11.5	
CAPACITOR	T	2MF	14.5	11.5	
RELAY	A	221A	0.3		"H" OPTION
RELAY	D	222A	0.3		
RELAY	A	221MD	0.3		"H" OPTION
RELAY	D	222XP	0.3		

NOTES:

1. WHERE THE (T) & (R) CAPACITORS ARE PART OF A MULTI-UNIT CAPACITOR, THE INDIVIDUAL LOSSES FOR THE (T) & (R) CAPACITORS SHALL BE WITHIN 0.5 db OF EACH OTHER.

TYPE OF RINGING AND DISTRICT	RINGING INTERVAL VOLTAGE		SILENT INTERVAL VOLTAGE	CODE OF (F) RELAY	OPTION	RATING	MAX. EXT. CKT. LOOP FOR TRIPPING		
	NO. 1	NO. 350A					SDJ "A"	SDJ "B"	SDJ "C"
AC-DC	84-88 AC & 45-52 DC	72-88 OR 84-88 AC & 45-52 DC	45-52	222J	ZE	STD	10300	—	14000
			48-52	222J	ZE	STD	11150	—	15000
SUP. TUBE 25V EP	84-88 AC & 37-40 DC	72-88 OR 84-88 AC & 37-40 DC	45-52	222J	ZE	STD	10300	—	14000
			48-52	222J	ZE	STD	11150	—	15000
SUP. INVERTED 42A AND TUBE	84-88 AC & 37-40 DC	72-88 OR 84-88 AC & 37-40 DC	60-75	222K OR 222L	ZE OR ZO	A & M	10400	—	—
			60-75	222K OR 222L	ZE OR ZO	A & M	9000	—	—
SUP. INV. 42A AND TUBE	76-80 AC & 42-46 DC	72-88 OR 84-88 AC & 37-40 DC	60-75	222K OR 222L	ZE OR ZO	A & M	9000	—	—
			60-75	222K OR 222L	ZE OR ZO	A & M	9000	—	—

① 72-88 AC & 80-88 AC ARE A & M IN NO. 1.
② 84-80 AC & 72-80 AC ARE ALSO A & M IN NO. 1.
③ 84-80, 72-80, OR 76-80 AC & 42-46 DC ARE ALSO A & M IN NO. 1 AND 350A.

SD30228-01 STEP BY STEP SYSTEMS
NE-HS. 1 OR 350A
CONNECTOR CIRCUIT
COMBINATION TOLL AND LOCAL
LOOP DIALING TOLL TRAIN

NORTHERN ELECTRIC COMPANY LIMITED
CANADA

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