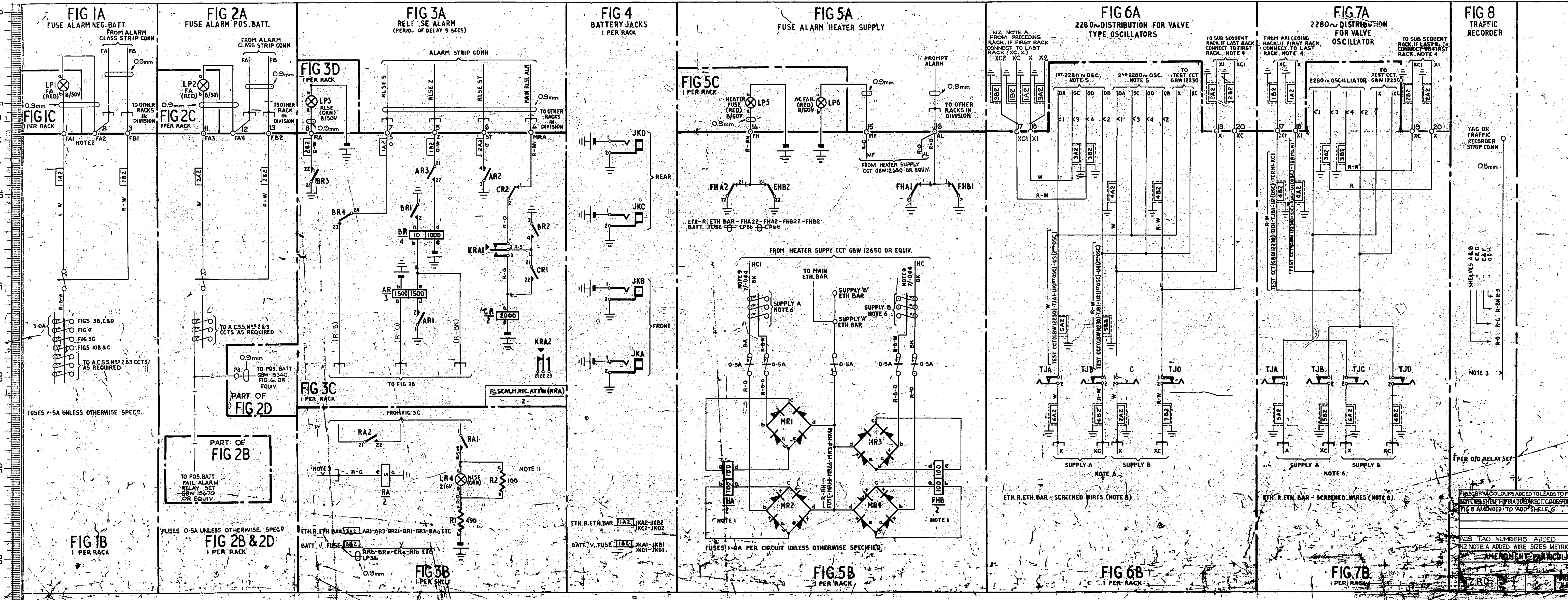
FIG 1A
FUSE ALARM NEG. BATT.
FIG 1B
1 PER RACK
FIG 1C
1 PER RACK
FUSES 1·5A UNLESS OTHERWISE SPEC'D
FIG 2A
FUSE ALARM POS. BATT.
FIG 2B
FIG 2C
1 PER RACK
PART OF FIG 2D
FUSES 0·5A UNLESS OTHERWISE SPEC'D
FIG 2B & 2D
1 PER RACK
FIG 3A
RELEASE ALARM
(PERIOD OF DELAY 9 SECS)
ALARM STRIP CONN
FIG 3B
1 PER SHELF
FIG 3C
1 PER RACK
FIG 3D
1 PER RACK
FIG 4
BATTERY JACKS
1 PER RACK
REAR
FRONT
FIG 5A
FUSE ALARM HEATER SUPPLY
FIG 5B
1 PER RACK
FIG 5C
1 PER RACK
FROM HEATER SUPPY CCT GBW 12650 OR EQUIV.
FUSES 1·0A PER CIRCUIT UNLESS OTHERWISE SPECIFIED
FIG 6A
2280 ~ DISTRIBUTION FOR VALVE TYPE OSCILLATORS
FIG 6B
1 PER RACK
FIG 7A
2280 ~ DISTRIBUTION FOR VALVE OSCILLATOR
FIG 7B
1 PER RACK
ETH. R. ETH. BAR - SCREENED WIRES (NOTE 8)
SUPPLY A
SUPPLY B
NOTE 6
FIG 8
TRAFFIC RECORDER
TAG ON TRAFFIC RECORDER STRIP CONN
1 PER O/G RELAY SET

NOTES

1. THE WINDING OF RELAYS AD, FHA & FHB ARE CONNECTED DIFFERENTIALLY.
2. THE TERMINALS ARE ON THE RACK MISC. STRIP CONN UNLESS OTHERWISE SPECIFIED.
3. FOR TERMINATION OF COMMON SERVICES SEE ASSOCIATED SHELF JACK DIAGRAMS.
4. WHEN ONLY ONE RACK IS PROVIDED STRAP TERMINALS X1 AND X ALSO XC1 & XC.
5. WHEN OSCILLATOR IS REMOVED FROM SHELF OR SECOND OSCILLATOR IS NOT FITTED U1 & U3 ALSO U2 & U4 ARE TO MAKE ON SHELF.
6. FOR DISTRIBUTION OF OSCILLATOR SUPPLY 'A' & OSCILLATOR SUPPLY 'B' SEE TABLE 1 SHEET 2.
7. UNLESS OTHERWISE SPECIFIED ALL WIRING BEARING A COLOUR CODE TO BE 0.9mm PLATE WIRING TO BE 0.5mm.
8. THE SCREENS (OF THE SCREENED PAIRS) TO BE BONDED TOGETHER TO FORM AN ELECTRICALLY CONTINUIOUS SCREEN AND CONNECTED TO EARTH BAR WITH 0.9mm RED.
9. ON SOME EARLY EQUIPMENTS USING GBW.12650 THESE LEADS WERE 3/·036."
10. FOR ALLOCATION OF FIGURES SEE TABLE 2 ON SHEET 2.
11. ON EARLY EQUIPMENT R2 WAS TYPE 9.
12. COLOUR OF BATTERY WIRING ON EARLY EQUIPMENT WAS BK AND W.

NZ NOTES : A. IF GBW 16820 OR EQUIVILANT IS MOUNTED ON MAR PROVIDE X2, XC2.

AMENDMENT PARTICULARS	ISSUE	DATE	APP
FIG 3C BRKR COLOURS ADDED TO LEADS TO FIG 3B (34109)	11	17·6·71	BS-H
NOTE ... SHELF H (FIG 8) ADDED RECT. CODES DELETED (83629)	10	8.8.67	
FIG 8 AMENDED TO ADD SHELF G. (46788)	9	14·5·67	
RCS TAG NUMBERS ADDED (63112)	11B	15-8-80	J.R.
NZ NOTE A ADDED WIRE SIZES METRICATED (144618)	11A	11-8-76	C.J.W

RACK COMMON SERVICES

N.Z.S.S. ...3

REF. 1 V.F.

NZPO | DRAWN | CHECKED | WIRING | CIRCUIT

GBW 12110

SHEET 1 OF 2

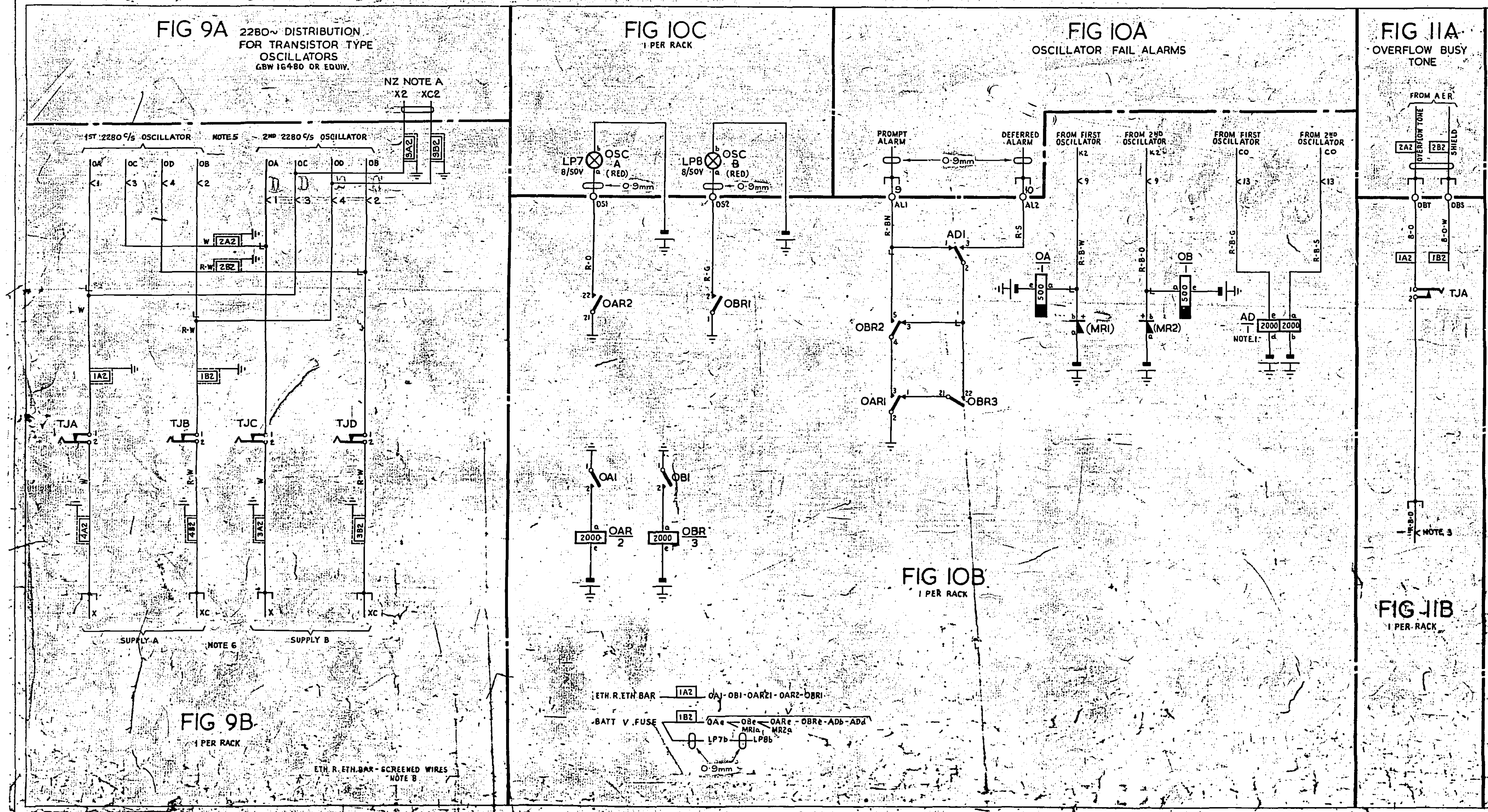
FIG 9A 2280~ DISTRIBUTION FOR TRANSISTOR TYPE OSCILLATORS
GBW 16480 OR EQUIV.
NZ NOTE A
1ST 2280 C/S OSCILLATOR
NOTE 5
2ND 2280 C/S OSCILLATOR
TJA
TJB
TJC
TJD
SUPPLY A
NOTE 6
SUPPLY B
FIG 9B
1 PER RACK
ETH. R. ETH. BAR - SCREENED WIRES NOTE 8
FIG 10C
1 PER RACK
LP7
OSC A (RED)
LP8
OSC B (RED)
OAR2
OBR1
OA1
OB1
OAR 2
OBR 3
ETH. R. ETH. BAR
BATT V. FUSE
FIG 10A
OSCILLATOR FAIL ALARMS
PROMPT ALARM
DEFERRED ALARM
FROM FIRST OSCILLATOR
FROM 2ND OSCILLATOR
AD1
OBR2
OAR1
OBR3
OA
OB
(MR1)
(MR2)
NOTE 1
FIG 10B
1 PER RACK
FIG 11A
OVERFLOW BUSY TONE
FROM A.E.R.
OVERFLOW TONE
SHIELD
TJA
NOTE 3
FIG 11B
1 PER RACK

TYPE OF EQUIPMENT USED.										
	N.Z.S.S. A.C. NOS 2&3		N.Z.S.S. A.C. NO 2T		N.Z.S.S. A.C. NO 3T O/G UNIDIRECTIONAL 2 PART RELAY SETS AT DEPENDENT EXCH		N.Z.S.S. A.C. NO 3T GBW16520, AND GBW16490 OR GBW16530 OR EQUIVALENTS DEPENDENT EXCH		N.Z.S.S. A.C. NO 3T ALL OTHER RELAY SETS UNLESS OTHERWISE SPECIFIED.	
SHELF NO	SUPPLY 'A'	SUPPLY 'B'	SUPPLY 'A'	SUPPLY 'B'	SUPPLY 'A'	SUPPLY 'B'	SUPPLY 'A'	SUPPLY 'B'	SUPPLY 'A'	SUPPLY 'B'
A	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	—	—	POSNS. 1,3,5,7&9	POSNS. 2,4,6,8 &10	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8
B	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	—	—	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10
C	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,&6	POSNS. 3,4,7&8	—	—	POSNS. 1,3,5,7&9	POSNS. 2,4,6,8 &10	POSNS. 1,2,5,&6	POSNS. 3,4,7&8
D	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,6&9	—	—	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10
E	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	—	—	POSNS. 1,3,5,7&9	POSNS. 2,4,6,8 &10	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8
F	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9 &10	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	—	—	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10
G	—	—	POSNS. 1,2,5,6,9&10	POSNS. 3,4,7&8	—	—	POSNS. 1,3,5,7&9	POSNS. 2,4,6,8 &10	—	—
H	—	—	—	—	POSNS. 3,4,7&8	POSNS. 1,2,5,6,9&10	—	—	—	—

TABLE 1
OSCILLATOR SUPPLY DISTRIBUTION.

R.C.S. FIGURES		PROVIDED AS SPECIFIED FOR:-		
FIG NO	TITLE	VALVE-TYPE CIRCUITS (1 OSC PER RACK).	VALVE-TYPE CIRCUITS (2 OSCS PER RACK	TRANSISTOR-TYPE CIRCUITS (2 OSCS PER RACK)
1A	FUSE ALARM NEG. BATT.	✓	✓	✓
1B	"	✓	✓	✓
1C	"	✓	✓	✓
2A	FUSE ALARM POS. BATT.	✓	✓	—
2B	"	✓	✓	—
2C	"	✓	✓	—
3A	RELEASE ALARM (9 SEC).	✓	✓	✓
3B	"	✓	✓	✓
3C	"	✓	✓	✓
3D	"	✓	✓	✓
4	BATTERY JACKS	✓	✓	✓
5A	FUSE ALARM HEATER SUPPLY	✓	✓	—
5B	"	✓	✓	—
5C	"	✓	✓	—
6A	2280 c/s DIST'N (VALVE OSC'S)	—	✓	—
6B	"	—	✓	—
7A	2280 c/s DIST'N (VALVE OSC)	✓	—	—
7B	"	✓	—	—
8	TRAFFIC RECORDER	✓	✓	✓
9A	2280 c/s DISTN (TRANSISTOR OSC'S)	—	—	✓
9B	"	—	—	✓
10A	OSC. FAIL ALARMS	—	—	✓
10B	"	—	—	✓
10C	"	—	—	✓
11A	OVERFLOW. BUSY TONE	—	—	GBW 16460 ONLY
11B	"	—	—	GBW 16460 ONLY

TABLE 2.

AMENDMENT PARTICULARS		ISSUE	DATE	APP
NO CHANGE. ISSUE ADVANCED.	(34109)	11	17·6·71	[illegible]
BATT. COLOURS AMENDED. RECT. CODES DELETED	(83625)	10	8.10.67	[illegible]
NO CHANGE. ISSUE ADVANCED.	(46788)	[illegible]	14·3·67	[illegible]
RCS TAG NUMBERS ADDED	(63112)	11B	15·8·80	J.R.
FIG. 9 AMD. WIRE SIZES METRICATED	(144618)	11A	11·8·76	CJW

RACK COMMON SERVICES
N.Z.S.S. A.C. NOS 2 [illegible]

REF:- I.V.F. SIZE L SHT 5

NZPO
DRAWN
CHECKED
WIRING
CIRCUIT

GBW 12H0

SHT 2