297-1001-152

DMS-100 Family

Trunk Selection and Compatibility

Reference

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NORTEL

NORTHERN TELECOM

DMS-100 Family

Trunk Selection and Compatibility

Reference

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Contents

About this document

When to use this document

The purpose of this publication is to tabulate all the features of the various plug-in trunk cards available for use in the Trunk Modules (TM) in the DMS-100 Family, so that a card can be selected easily for a particular application.

How to check the version and issue of this document

The version and issue of the document are indicated by numbers, for example, 01.01.

The first two digits indicate the version. The version number increases each time the document is updated to support a new software release. For example, the first release of a document is 01.01. In the *next* software release cycle, the first release of the same document is 02.01.

The second two digits indicate the issue. The issue number increases each time the document is revised but rereleased in the *same* software release cycle. For example, the second release of a document in the same software release cycle is 01.02.

To determine which version of this document applies to the software in your office and how documentation for your product is organized, check the release information in *Product Documentation Directory*, 297-8991-001.

References in this document

Product Documentation Directory, 297-8991-001 is referred to in this document.

What precautionary messages mean

The types of precautionary messages used in NT documents include attention boxes and danger, warning, and caution messages.

An attention box identifies information that is necessary for the proper performance of a procedure or task or the correct interpretation of

information or data. Danger, warning, and caution messages indicate possible risks.

Examples of the precautionary messages follow.

ATTENTION Information needed to perform a task

ATTENTION

If the unused DS-3 ports are not deprovisioned before a DS-1/VT Mapper is installed, the DS-1 traffic will not be carried through the DS-1/VT Mapper, even though the DS-1/VT Mapper is properly provisioned.

DANGER Possibility of personal injury

DANGER

Risk of electrocution

Do not open the front panel of the inverter unless fuses F1, F2, and F3 have been removed. The inverter contains high-voltage lines. Until the fuses are removed, the high-voltage lines are active, and you risk being electrocuted.

WARNING Possibility of equipment damage

WARNING

Damage to the backplane connector pins

Align the card before seating it, to avoid bending the backplane connector pins. Use light thumb pressure to align the card with the connectors. Next, use the levers on the card to seat the card into the connectors.

CAUTION Possibility of service interruption or degradation

CAUTION

Possible loss of service

Before continuing, confirm that you are removing the card from the inactive unit of the peripheral module. Subscriber service will be lost if you remove a card from the active unit.

How commands, parameters, and responses are represented

Commands, parameters, and responses in this document conform to the following conventions.

Input prompt (>)

An input prompt (>) indicates that the information that follows is a command:

>BSY

Commands and fixed parameters

Commands and fixed parameters that are entered at a MAP terminal are shown in uppercase letters:

>BSY CTRL

Variables

Variables are shown in lowercase letters:

>BSY CTRL ctrl_no

The letters or numbers that the variable represents must be entered. Each variable is explained in a list that follows the command string.

Responses

Responses correspond to the MAP display and are shown in a different type:

```
FP 3 Busy CTRL 0: Command request has been submitted.
FP 3 Busy CTRL 0: Command passed.
```

The following excerpt from a procedure shows the command syntax used in this document:

1 Manually busy the CTRL on the inactive plane by typing

>BSY CTRL ctrl_no
and pressing the Enter key.

where

ctrl_no is the number of the CTRL (0 or 1)

Example of a MAP response:

```
FP 3 Busy CTRL 0: Command request has been submitted.
FP 3 Busy CTRL 0: Command passed.
```

Introduction

General

The purpose of this publication is to tabulate all the features of the various plug-in trunk cards available for use in the Trunk Modules (TM) in the DMS-100 Family, so that a card can be selected easily for a particular application.

Table A lists the available trunk cards by Product Engineering Code (PEC) and shows the features provided by the trunk hardware of each card.

Table B shows typical trunk functional applications of the various trunk cards together with the corresponding features required to achieve the necessary functional compatibility.

Table C shows typical connections to other switching systems and in many cases identifies the connecting trunk circuit. Identifying the connecting trunk circuit does not necessarily ensure compatibility. In practice, when such connecting circuits with the same features and options are common, and experience indicates that they are compatible, they should be recorded in this table for future reference.

General information on the signaling methods, supervisory and address signals referred to in the tables is contained in the American Telephone and Telegraph (AT&T) Co. ”Notes on the Network”.

Reason for reissue

This document has been reissued to reflect minor editorial changes. Because these changes are minor, revision bars are not used.

Index to trunk and service circuits

The following types of trunk and service circuits are listed in Tables A, B and C, with notes in Table D.

PEC	Product Description
NT1X54AA	Jack-Ended Test Trk.
NT2X65AA	CAMA Position Signaling Ckt Card
NT2X66AA	CAMA Calls Waiting and CAMA Suspension Ckt. Card
NT2X72AA	4W, IC, OG or 2-Way Type D1 E&M Trk. Ckt. Card
NT2X72AB	4W, IC, OG or 2-Way Type D1 E&M Trk. Ckt. Card
NT2X72AC	4W, IC, OG, or 2-Way Type D1 E&M Trk. Ckt. Card
NT2X72AD	4W, IC, OG, or 2-Way Type D1 E&M Trk. Ckt. Card
NT2X72AE	4W, IC, OG, or 2-Way Type D1 E&M Trk. Ckt. Card
NT2X78AA	4W Integrated SF Trk. Ckt. Card
NT2X81AA	2W, IC, OG, 2-Way, 900 Ohm, Type D1 E&M Trk. Ckt. Card
NT2X81AB	2W, IC, OG, 2-Way, 600 Ohm, Type D1 E&M Trk. Ckt. Card
NT2X82AA	2W, IC, LP, RB Trk. Ckt. Card
NT2X83AA	2W, OG, RB Trk. Ckt. Card
NT2X85AA	2W, OG, LP, Hi-Lo Supervision Trk. Ckt. Card
NT2X86AA	2W, IC, LP, RB, SX Re-ring, 3rd-Wire CC, Trk. Ckt. Card
NT2X88AA	4W, IC, OG, 2-Way, Type II E&M Trk. Ckt. Card
NT2X90AB	2W, IC from #14 LTD, CALRS
NT2X92AA	2W, OG, RB, MF Trk. Ckt. Card
NT2X95AA	2-W, DID/DOD PBX Loop Trk. Ckt.
NT2X98AA	2W, IC, RB, S Lead Control, Trk. Ckt. Card
NT3X04AA	INC Test Trk for AE. Co. LTD
NT3X06AA	OG, RC Direct to Co-Located NE-3CL Swbd.
NT3X07AA	Inc. TS Direct from Co-Located NE-3CL Swbd.
NT3X91AA	Remote Office Test Line (ROTL) Trunk Ckt. Card
NT5X03AA	CCITT R1 Trk. Ckt. Card
NT5X04AA	CCITT #5 Trk. Ckt. Card

—continued—

PEC	Product Description
NT5X06AA	CCITT #6 Trk. Ckt. Card
NT5X25AA	1-W, IC, or OG CO Trunk Circuit
NT5X30AA	101 Communication Test Line

—end—

Applique circuits

Applique circuits are used as adapters to provide an interface between a DMS-100 Family trunk circuit and a specific item of Northern Telecom (NT) or other manufacturer's equipment, or for special purposes (for example: Board-to-Board Testing). The following applique circuits are available:

PEC	Product Description
NT5X26AA	Ground Detector for 911 Application.
NT5X27AA	Sleeve Lead Applique Ckt.
NT5X50AA	Auxiliary circuit for interface with Stromberg-Carlson (SC) ONI Turret circuit (used with NT2X65. See Table C).
NT5X51AA	CAMA Interface Circuit for DMS and North Electric TSD.
NT5X52AA	High Tone circuit.
NT5X55AA	28-KTU Modular 1A2 Key Telephone System.
NT5X56AA	1A2 Key System Frame.
NT5X57AA	Auxiliary RC CN Trunk Circuit for Automatic Electric (AE) Co. #30, #31 switchboards. (Used with NT2X85AA. See Table D, note 17).
NT5X58AA	7-KTU Stand-Alone 1A2 Key System.
NT5X59AA	Alarm Indication Applique Circuit.
NT5X60AA	Central Office Communications System.
NT5X61AA	MDF Paging Circuit.
NT5X63AA	Applique Circuit for AE Co. Fire Reporting System.
NT5X64AA	Communications Module. See 297-1001-157 for details.
NT5X66AA	Applique Circuit for Outgoing Test Trunk to a SC Testboard.

Note: * TOPS is a trademark of Northern Telecom Limited

—continued—

PEC	Product Description
NT5X67AA	Digital Carrier Module (DCM) Cutover Circuit.
NT5X68AA	DCM Cutover Circuit.
NT5X69AA	Inactive System Timing Circuit.
NT5X70AA	Applique Circuit for Outgoing Trunk to 911 Emergency Bureau (without DC Switch Hook Status).
NT5X70AB	Applique Circuit for Outgoing Trunk to 911 Emergency Bureau (with DC Switch Hook Status).
NT5X71AA	Applique Circuit for Outgoing Trunk to Repair Service or AE Co. Optional Intercept (Used with NT2X83AA. See Table D, notes 43, 44).
NT5X72AA	Central Alarm Display Panel and Circuit.
NT5X73AA	Board-to-Board Test Unit. See 297-1001-522 for details of Automatic Board-to-Board Testing (ABBT).
NT5X74AA	Universal CAMA Position Circuit. (Used with NT2X65. See Table C).
NT5X75AA	Auxiliary CAMA position Circuit for Bell System CAMA position (TSPS or TOPS). System (TSPS or TOPS).
NT5X76AA	Auxiliary CAMA Position Circuit for North Electric ONI Position.
NT5X77AA	Auxiliary CAMA Position Circuit for SC ONI Position. (Used with NT2X65. See Table C).
NT5X78AA	Auxiliary Trunk Circuit to Interface with ITT Routing Repeater.
NT5X79AA	ABBT Applique Circuit for AE Co. SXS and US Instruments Motorswitch. See 297-1001-522 for details of ABBT.
NT5X83AA	ATAS Select and Control Circuit.
NT5X85AA	Audible and Visual Alarm Extension Circuit.
NT5X86AA	Alarm Cutoff Circuit.
NT5X88AA	ABBT Applique Circuit for Common Control Systems: No.1 ESS, SP-1, No.5 XBAR. See 297-1001-522 for details of ABBT.
NT5X91AA	Auxiliary Trunk for TOPS* access from mobile terminal 1280 Series.
NT5X92AA	Alarm Extension Circuit.

Note: * TOPS is a trademark of Northern Telecom Limited

—end—

Trunk card selection

Table 2-1 provides a list of the plug-in trunk cards available. The tabulation is arranged so that the first column identifies each trunk card by PEC. Additional columns to the right show the capabilities provided by the hardware features in each card and assist in the selection of a card which is compatible with the required trunk functions. See Table 2-5 for descriptions of abbreviations used in Table 2-1.

Table 2-2 is arranged so that the first column contains the abbreviations for the desired trunk function. After finding the desired trunk functional use, consult each of the columns to the right of it for tabulations of the card types which match the required trunk function. The card types are listed in the second column by their PEC. The Schematic Diagram (SD) number of the connecting circuit compatible with each PEC is listed under CONNECT CCT. Refer to the degree of compatibility. See Tables 2-5 and 2-6 for descriptions of the abbreviations used in Table 2-2.

When the SD number of the connecting circuit is known, and it is desired to select a compatible card PEC, refer to Table 2-3. The SD numbers of connecting circuits are listed in ascending numerical sequence in the left-hand column. Each SD number has a corresponding PEC which indicates compatibility, either completely (C) or conditionally (CC), within the limita- tions of the ”Notes”. An SD number without a corresponding PEC is marked not compatible (NC). See Tables 2-5 and 2-6 for descriptions of the abbreviations used in Table 2-3.

References

References listed under PREREQUISITES contain information which is essential for an understanding of this practice. Those listed under INFORMATIVE contain additional information which may be necessary for an understanding of this practice. References are inserted at the appropriate place in the text.

Prerequisites

DOCUMENT NUMBER	TITLE
297-1001-100	System Description

Informative

DOCUMENT NUMBER	TITLE
297-1001-157	NT5X64 Series Communication Modules Description, Ordering Information, Installation, Operation, and Maintenance.
297-1001-522	Automatic Board-to-Board Testing (ABBT) Reference Manual.
	"Notes on the Network" (AT ^{0} T Blue Book, 1980 edition).

Table 2-1
Trunk Hardware Featurres

NT PROD ENG CODE 200 (PEC)	*NO COND 2W or 4W	*IMP 600 or 900 TM4 OHM	*APPL IC OG 2-W ALL	*SIG METH LPRB E&M SF OTH	*PLS TYPE MF or DP	*LEVL FXD or ADJ	*BAL NET H88 D66 COMP	*MISC RMB or ESC	*DMS FAM 100 1/200 300	*CCT PER CRD	*TM TYPE TM2 TM8 TM8A	*NOTE REF NO
1X54AA	4W	600							1/200	2	$	1$.
2X65AA	$		2-W	LPRB	MF		H88 COMP		100	1	TM8	2$.
2X66AA	$		2-W	LPRB E&M@					200	1	TM8	3$. 4@.
2X72AA	4W	600	ALL	E&M$	MF DP	ADJ			1/200	2	TM8	5$.
2X72AB	4W	600	ALL	E&M$	MF	ADJ		ESC@	1/200	2	TM8	5$. 18@
2X72AC	4W	600	ALL	E&M$	MF	ADJ@			1/200	2	TM8	5$. 17@
2X72AD	4W	600	ALL	E&M$	MF	ADJ@			1/200	2	TM8	5$. 20@

Note: The Characters $ and @ indicate the column to which the referenced note applies.

—continued—

Table 2-1
Trunk Hardware Featurres (continued)

NT PROD ENG CODE 200 (PEC)	*NO COND 2W or 4W	*IMP 600 or 900 TM4 OHM	*APPL IC OG 2-W ALL	*SIG METH LPRB E&M SF OTH	*PLS TYPE MF or DP	*LEVL FXD or ADJ	*BAL NET H88 D66 COMP	*MISC RMB or ESC	*DMS FAM 100 1/200 300	*CCT PER CRD	*TM TYPE TM2 TM8 TM8A	*NOTE REF NO
2X72AE	4W	600	ALL	E&M$	MF	ADJ@			1/200	2	TM8	5$. 21@
2X78AA	4W	600	ALL	SF	MF DP	ADJ			1/200 200	2	TM4 TM8	
2X81AA	2W	900	ALL	E&M$	MF DP	FXD	@		100	2	TM8	5$. 16@
2X81AB	2W	600	ALL	E&M$	MF DP	FXD	@		200	2	TM8	5$. 16@
2X82AA	2W	900	IC	LPRB	MF DP	ADJ	@	RMB	1/200 100 200	2	TM2 TM4 TM8	16@
2X83AA	2W	900	OG	BGRB	MF DP	ADJ	@	RMB$	1/200 100 200	2	TM2 TM4 TM8	6$. 16@
2X85AA	2W	900	OG	OTH$	MF DP	ADJ	@	RMB	1/200 100	1	TM8	7$. 16@ 22@
2X86AA	2W	900	IC	LPRB	MF DP	ADJ	@		1/200 100	1	TM4 TM8	16@ 22@
2X88AA	4W	600	ALL	E&M$	MF DP	ADJ			1/200 200	2	TM8	8$.
2X90AB	2W	900	IC	LPRB OTH$	MF DP	ADJ	H88 COMP		1/200 100	1	TM8 $	9$.
2X92AA	2W	900	OG	LPRB	MF	ADJ	@	RMB$	200	2	TM2 TM4 TM8	6$. 16@
2X95AA	2W	900	2-W	LPRB	MF DP	ADJ	$		100	1	TM2 TM4 TM8	16$
2X98AA	2W	900	IC	LPRB OTH$	MF DP	ADJ	H88	RMB	100	2	TM4 TM8	10$
3X04AA	2W	900	IC			ADJ			100	2		
3X06AA	2W	600	OG	OTH$		ADJ	COMP		100 200	1	TM4 TM8	10$ 22@
3X07AA	2W	600	IC	OTH$	MF	ADJ	COMP		100 200	2	TM8	10$ 22@

Note: The Characters $ and @ indicate the column to which the referenced note applies.

—continued—

Table 2-1
Trunk Hardware Featurres (continued)

NT PROD ENG CODE 200 (PEC)	*NO COND 2W or 4W	*IMP 600 or 900 TM4 OHM	*APPL IC OG 2-W ALL	*SIG METH LPRB E&M SF OTH	*PLS TYPE MF or DP	*LEVL FXD or ADJ	*BAL NET H88 D66 COMP	*MISC RMB or ESC	*DMS FAM 100 1/200 300	*CCT PER CRD	*TM TYPE TM2 TM8 TM8A	*NOTE REF NO
3X91AA	4W	600	2-W	E&M	MF	ADJ			1/200 100 200	2	TM8	
5X03AA	4W	600	ALL	E&M OTH$		ADJ		ESC	300	2	TM8 TM8A	11$ 15@
5X04AA	4W	600	ALL	OTH$		ADJ		ESC	300	2	TM8 TM8A	12$ 15@
5X06AA	4W	600	ALL	OTH$		ADJ		ESC	300	2	TM8 TM8A	13$ 15@
5X25AA	2W	900	IC OG	OTH$	MF DP	ADJ			100	2	TM2 TM4 TM8	19$
5X30AA	2W	900	IC OG			ADJ	@		ALL	1	TM2$ TM4 TM8	14$ 16@

Note: The Characters $ and @ indicate the column to which the referenced note applies.

—end—

Notes:

The following correspond to the NOTES column of Table A.

1 Jack-Ended Test Trunk. TM4, TM8, MTM.

2 8-wires.CAMA Position Signaling.

3 6-Wires.CAMA Calls Waiting.CAMA Suspension.

4 Optional Signaling.

5 Modified Type I E&M (D1) Signaling.

6 Senses Remote Make-Busy.

7 Hi-Lo Supervision.

8 Type II E&M Signaling.

9 Sleeve Lead Supervision. Maintenance Trunk Module (MTM) or Remote Service Module (RSM).

10 Sleeve Lead Control.

11 CCITT R1 Modified Type I E&M Signaling.

12 CCITT No.5 Signaling.

13 CCITT No.6 Signaling.

14 101 Communication Test Line. Four cards per TM.

15 TM8A Trunk Module 8-wire with Access. With 120 pairs of conductors wired to the DF and with a bus for metallic access of CCITT trunk circuits by the Test Access Network (TAN).

16 Optional Balance Network: H88,D66 or Compromise(COMP). Use NT2X77 Precision Balance Network with NT2X95AA Trunk when used on long loops.

17 Transmit and Receive levels for 2X72AA and 2X72AC are different. Refer to GS for detail.

18 ESC is not applicable.

19 Ringdown, Loop, or Ground Start.

20 Equivalent is 2X72AA. For interface application with WE E4B E type signaling. The maximum is 2 packs per TM due to power dissipation.

21 Its equivalent is 2X72AC. For interface application with WE E4B E type signaling. The maximum is 2 packs per TM due to power dissipation.

22 The following restrictions apply to trunk circuits 3X06, 3X07, 2X85, and 2X86 which are used to interface switch boards (regular operator or SOST) for DMS-200 Switches:

— Upon calling party disconnect of a leave word call, there is no 120 IPM flash of board lamps.

— Only the line no. method of coin control is sup- ported.

— In order to transfer calls from TOPS to SOST via 3X06 or 2X85, a looparound arrangement is required.

— SOST operators are unable to rering TOPS operators on calls routed from TOPS to SOST.

Table 2-2
Circuit Compatibility

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
MAP	1X54AA											
CA SWB D POS N	2X65AA	8W	600	2-W	LPRB		MF				95853-01	26.
ANI ONI	2X65AA	8W	600	2-W	LPRB		MF				96481-01 96482-01	27.
CA SWB D POS N	2X66AA 2X66AA	6W 6W		OG 2-W	RBE M RBE M		MF MF				95868-01 95872-01	28. 29.
TC	2X72AA	4W	600	OG	E&M		DP				3286-01	1,35 +59.
IT	2X72AA	4W	600	2-W	E&M						6494-01	59.
IT	2X72AA	4W	600	2-W	E&M	WK DD ID	MF DP				6771-01	59.
IT	2X72AA	4W	600	2-W	E&M	ID	DP				6784-01	59.
TC	2X72AA	4W	600	OG	E&M	ID	DP				30976-01	1,32 +59.
TC	2X72AA	4W	600	OG	E&M	ID	DP				31726-01	1,59
RC	2X72AA 2X72AA	4W 4W	600 600	OG IC	E&M E&M						55381-01 56483-01	1,59 11,3 4 +59.
EAS	2X72AA	4W	600	OG	E&M		DP				ED31674 -01	1,59 .
IT	2X72AA	4W	600	2-W	E&M						EAS30462	23,

—continued—

Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
IT	2X72AA	4W	600	2-W	E&M	WK DD ID	MF DP				EAS41209	24, +59
IT	2X72AA	2W 4W	600	2-W	E&M	WK DD	MF				EAS41219	25, +59
SP	2X81AA	2W	900	IC	E&M						4046-01	
SP	2X81AA	2W	900	IC	E&M			IB			4047-01	
IE	2X81	2W		IC	E&M						4146-01	36.
SP	2X81AA	2W	900	IC	E&M						4147-01	37, +38
OO	2X81AA	2W	900	2W	E&M						4166-01	37, +38
CA	2X81AA	2W	900	OG	E&M	ID	DP, MF				4189-01	1, +39
IT TC	2X81AA	2W	900	2-W	E&M	WK ID	MF DP				25842-01	1.
IT TC	2X81AA	2W	900	2-W	E&M	WK	MF				25843-01	1.
IT TS	2X81AA	2W	900	OG	E&M	WK	MF				25844-01	1.
IT TC	2X81AA	2W	900	IC	E&M	ID	DP				25846-01	1.
IT TC	2X81AA	2W	900	IC	E&M	WK	MF				25847-01	1.
IT TT	2X81AA	2W	900	OG	E&M	WK	MF				25909-01	1.
IE	2X81AA	2W	900	OG	E&M	WK ID	MF DP			CONT RING	26074-01	1.

—continued—

Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*COIN CONT	*RGFD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NOTE REF # TABD
TC	2X81AA	2W	900	OG	E&M	WK ID	MF DP				26123-01	1.
IT TC	2X81AA	2W	900	2-W	E&M	WK DD	MF				27000-01	1.
IT TC	2X81AA	2W	900	2-W	E&M	WK ID	MF DP				27003-01	1.
CA	2X81AA	2W	900	OG	E&M	WK ID	MF DP				27103-01	1.
TT,RC	2X81AA	2W	900	2-W	E&M	ID	DP				31685-01	1.
TT,RC	2X81AA	2W	900	2-W	E&M	ID	DP	WK			31775-01	1.
IE,CA	2X81AA	2W	900	OG	E&M	ID	DP MF				32241-01	1.
RC	2X81AB	2W	600	OG	E&M	IB					56478-01	34.
IT	2X81AA	2W	900	IC	E&M	WK	MF				64472-01	1.
CA				2-W		DD ID	DP					
CA	2X81AA	2W	900	OG	E&M	DD	MF				68479-01	
CA	2X81AA	2W	900	OG	E&M	DD	DP				68481-01	
TS	2X81AA	2W	900	IC	E&M	DD	DP				68514-01	
TS	2X81AA	2W	900	IC	E&M	DD	MF				68595-01	
IT	2X81AA	2W	900	IC 2-W	E&M	WK DD ID	MF	DP			95060-01	1.
SP	2X81AA	2W	900	IC	E&M	WK	MF DP	IB		IBR	1Y48-01	
IE	2X81AA	2W	900	2-W	E&M	WK	MF				1Y55-01	10.

—continued—

Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
IE	2X81AA	2W	900	2-W	E&M	ID	DP				1Y56-01	10.
IE	2X81AA	2W	900	2-W	E&M	WK	MF				1Y61-01	
IE TG	2X81AA	2W	900	OG	E&M	WK DD	MF			ER	1Y65-01	1.
IE TG	2X81AA	2W	900	OG	E&M	ID	DP			ER	1Y67-01	1.
IE	2X81AA	2W	900	2-W	E&M	WK	MF				1A252-01	
DDD	2X81AB	4W	600	2-W	E&M	WK DD ID	MF DP				1C453-01 MTUCA	1, +11
IE	2X81AB	2W	600	2-W	E&M	ID	DP				H83080	18.
IE	2X81AB	2W	600	2-W	E&M	ID	DP				H610144 -A1A	22.
SP	2X82AA	2W	900	IC	LP RB						4034-01	
IE	2X82AA	2W	900	IC	LP RB	ID	DP	*			4179-01	30*.
EAS	2X82AA	2W	900	IC	LP RB	ID	DP				25578-01	
DDD	2X82AA	2W	900	IC	LP RB						25823-01	40.
IE	2X82AA	2W	900	IC	LP	WK	MF			RMB	26085-01	
CA					RB		DP				26116-01	
TS	2X82AA	2W	900	IC	LP RB						26178-01	41.
IE	2X82AA	2W	900	IC	LP RB	ID	DP				31147-01	62.

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
IE TM TC	2X82AA	2W	900	IC	LP RB	ID	DP				31779-01	55, +56
CA LA TS TC	2X82AA	2W	900	IC	LP RB RB	ID	DP DP				32199-01	
IE CA	2X82AA	2W	900	IC	LP RB	ID	DP			ANI	32240-01	
TS	2X82AA	2W	900	IC	LP RB	DD	MF				68325-01	
TS TC	2X82AA	2W	900	IC	LP RB	DD	DP				68326-01	
IE TS TC	2X82AA	2W	900	IC	LP RB	WK DP	MF				68962-01	
EAS	2X82AA	2W	900	IC	LP RB						408124-01	
IE TM	2X82AA	2W	900	IC	LP RB	WK DD ID	MF DP				1Y35-01 1Y41-01	
CA LA	2X82AA	2W	900	IC	LP	WK DD ID	MF DP				RMB 1Y37-01	
EAS	2X82AA	2W	900	IC	LP RB	WK	MF				1Y41-01	
SP	2X82AA	2W	900	IC	LP RB	WK	MF				4Y15-01	
IT TC TM	2X82AA	4W	600	IC	LP RB	WK DD ID	MF DP				2Y87-01	11.

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
IE TC TM CA	2X82AA	2W	900	IC	LP RB	WK DD ID	MF DP					1A165-01
DDD LA	2X82AA	2W	900	IC	LP RB	WK	MF				1A203-01	
TC TS	2X82AA	2W	900	IC	LP RB	WK DD ID	MF DP				1C453-01 MTUCA	
IE	2X82AA	2W	900	IC	LP RB	ID	DP			RMB	H610010 -A1A	
IE	2X82AA	2W	900	IC	LP RB	ID	DP			RMB	H510010 -1B	21.
IE	2X82AA	2W	900	IC	LP RB	ID	DP				PH3635	21.
IE	2X82AA	2W	900	IC	LP	ID	DP			RMB	ITEC 600888	
CAMA	2X82AA	2W	900	IC	LP RB		DP				FUR T 370732	42.
EAS	2X82AA	2W	900	IC	LP RB	ID	DP				S-33192	40.
EAS	2X82AA	2W	900	IC	LP RB	ID	DP				S-33266	40.
EAS	2X82AA	2W	900	IC	LP	ID	DP RB				S-33325	40.
EAS	2X82AA	2W	900	IC	LP RB	ID	DP				S-408090	40.
EAS	2X82AA	2W	900	IC	LP RB	WK	DP				S-408234	

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*COIN CONT	*RGFD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NOTE REF # TABD
DA	2X83AA	2W	900	OG	BG RB	WK	MF				4066-01	
IE	2X83AA	2W	900	OG	BG RB	ID	DP				4178-01	
TWX NAMA	2X83AA	2W	900	OG	BG RB						25887-01	52.
IE CA	2X83AA	2W	900	OG	BG RB	WK ID	MF DP				26070-01	
TM	2X83AA	2W	900	OG	BG RB	WK ID	MF DP				26071-01	
IE TO	2X83AA	2W	900	OG	BG RB	WK	MF				26077-01	53, +56
IE	2X83AA	2W	900	OG	BG RB	WK ID	MF DP				26257-01	
IE CA	2X83AA	2W	900	OG	BG RB	WK	MF				27061-01	
IE DDD	2X83AA	2W	900	OG	BG RB	WK ID	MF DP				27580-01	
IE DDD	2X83AA	2W	900	OG	BG RB	ID	DP				27581-01	
IE CA RB TO	2X83AA	2W	900	OG	BG	ID	DP				30200-012	56.
IE	2X83AA	2W	900	OG	BG RB	ID	DP				30976-01	
TC	2X83AA	2W	900	OG	BG RB	ID	DP				31722-01	

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
TC CA	2X83AA	2W	900	OG	BG RB	DD	MF				68482-01	
DA	2X83AA	2W	900	OG	BG RB	WK DD ID	MF DP	R			90527-01	7.
DA	2X83AA	2W	900	OG	BG RB	WK DD	MF DP ID			RMB	95513-01	8.
IR	2X83AA	2W	900	OG	BG RB						95740-01	44, +57 +61
RS	2X83AA	2W	900	OG	BG RB	ID	DP				95782-01	44, +61
IR	2X83AA	2W	900	OG	BG RB						95789-01	44, +57 +61
IR	2X83AA	2W	900	OG	BG RB	WK DD	MF				1Y60-01	
IE	2X83AA	2W	900	OG	BG RB	ID	DP				1Y62-01	
IE TM CA	2X83AA	2W	900	OG	BG RB	WK DD	MF			ERB	1Y64-01	
IE TM RB	2X83AA	2W	900	OG	BG	ID	DP			ERB	1Y66-01	
IE	2X83AA	2W	900	OG	BG RB	DD	MF				2Y39-01	
DDD CA	2X83AA	2W	900	OG	BG RB	WK DD	MF DP				2Y83-01	11, +12

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*COIN CONT	*RGFD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NOTE REF # TABD
IE TC TM TC	2X83AA	2W	900	OG	BG RB	WK DD	MF DP				1A166-01	
IE TM	2X83AA	2W	900	OG	BG RB	DD	MF DP				1A266-01	
DDD	2X83AA	2W	900	OG	BG RB ID	WK DD	MF DP				SC1C453 -01 MTUCA	
IN	2X83AA	2W	900	OG	BG RB	ID	DP				H75277	15.
IR	2X83AA	2W	900	OG	BG RB						H85267	43.
IE	2X83AA	2W	900	OG	BG RB	ID	DP				H580176 -1A	19.
ES	2X83AA	2W	900	OG	BG RB	ID	DP				H580258 +63	20,
IE	2X83AA	2W	900	OG	BG RB	ID	DP				H580294	20.
IE	2X83AA	2W	900	OG	BG RB	ID	DP				ITEC 600888	
DID	2X83AA	2W	900	OG	BG RB	WK ID DD	DP				QPC72	45, +40
DID	2X83AA	2W	900	OG	BG RB	ID	DP				QPJ76	46, +40
EAS	2X83AA	2W	900	OG	BG RB	ID	MF DP				LSCO72 -202-A1	

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
RS	2X83AA	2W	900	OG	BG RB	ID	DP				TCS-1400 AS-1	44, +61
EAS	2X83AA	2W	900	OG	BG	ID	DP				S-33199	40.
EAS	2X83AA	2W	900	OG	BG RB	ID	DP				S-33257	40.
EAS	2X83AA	2W	900	OG	BG RB	ID	DP				S-33348	40.
RC	2X85AA	2W	900	OG	HL RB					JH	55872-01	
RC	2X85AA	2W	900	OG	HL RB				T&R		55875-01	
RS	2X85AA	2W	900	OG	HL RB						64754-01	61.
RS	2X85AA	2W	900	OG	HL RB						99434-01	61.
VR TS	2X86AA	2W	900	IC	LP RB	ID	DP	RF SX	JH		55346-01	30.
TS	2X86AA	2W	900	IC	LP RB	ID	DP	3W	RF SX	JH	55346-01 +64424-01	
VR	2X86AA	2W	900	IC	LP TS	WK RB	MF ID	3W DP			55879-01	
TS	2X86AA	2W	900	IC	LP RB	ID	DP	3W	RF SX	JH	H83061	16.
IT	2X88AA	4W	600	OG	E&M	DD	MF DP				68135-01	6.
IT	2X88AA	4W	600	IC	E&M	DD	MF DP				68230-01	6.

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
IT	2X88AA	4W	600	IC	E&M	DD	MF DP				68231-01	6.
IT OO	2X88AA	4W	600	2-W	E&M	DD	DP-In MF/ DP-Out				68232-01	6.
IT OO	2X88AA	4W	600	2-W	E&M	DD	MF-In MF/ DP Out				68233-01	6.
IT OO	2X88AA	4W	600	2-W	E&M	DD	MF DP				68579-01	6.
IT	2X88AA	4W	600	OG	E&M	DD	MF DP				68581-01	6.
IT	2X88AA	4W	600	IC	E&M	DD	MF DP				68582-01	6.
IT	2X88AA	4W	600	OG	E&M	WK DD ID	MF DP				2Y84-01	6.
IT	2X88AA	4W	600	2-W	E&M	WK DD ID	MF DP				2Y84-01 +2Y85-01	6.
IT TC	2X88AA	4W	600	IC	E&M	WK DD ID	MF DP				2Y86-01	6.
TC	2X88AA	4W	600	2-W	E&M	WK	MF				1A236-01	6.
TC	2X88AA	4W	600	2-W	E&M	WK ID	DP				1A237-01	6.
TK	2X90AB	2W	900	IC	SL	WK ID	MF DP				95737-01 +95612-01	31.

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Table 2-2
Circuit Compatibility (continued)

TRK FUNC	*NT PEC	*NO. CND	*IMP OHM	*APL	*SIG METH	*STA T SIG	*PLS TYP	*CO IN CO NT	*RG FD BK	*MISC TRK FEAT	*CONNECT CCT SD NO.	*NO TE REF # TAB D
TK	2X90AB	2W	900	IC	SL	WK ID	MF DP				95737-01	
TK	2X90AB										#3 LTC	41.
TK	2X90AB										CALRS	47.
TK	2X90AB	2W	900	IC	SL	WK ID	MF DP				96229-01	48.
TK	2X90AB	2W	900	IC	SL	WK	MF				99311-01	49.
VR	2X92AA	2W	900	OG	RB		MF				26073-01	
IE-TM	2X92AA	2W	900	OG	RB						27686-01	
TC EAS	2X92AA	2W	900	OG	RB	WK	MF				1Y64-01	
VR	2X92AA	2W	900	OG	RB	WK	MF				1Y70-01	50.
IE	2X98AA	2W	900	IC	SL	WK ID	MF DP				30200-01	2.
TK	3X04AA	2W	900	IC							H85272	
	3X06AA	2W	600	OG	SL							64.
	3X07AA	2W	600	IC	SL		MF					64.
	5X03AA	4W	600								CCITT-R1	
	5X04AA	4W	600								CCITT-#5	
	5X06AA	4W	600								CCITT-#6	

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Table 2-3
Circuit Compatibility

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
3286-01	SXS, IC Selector Ckt.	TC	CC	2X72AA	1,35+59.
4034-01	NE-5, X-Bar OG Trk Ckt.	SP	C	2X82AA	
4035-01	NE-5, X-Bar OG Trk Ckt. (CN)	SP	NC		
4042-01	SXS, OG Frame Trk Unit.	SP	C	2X82AA	
4046-01	NE-5, X-Bar OG Trk Ckt. to TOPS NCN	SP	C	2X81AA	
4047-01	NE-5, X-Bar OG Trk Ckt to TOPS NCN	SP	C	2X81AA	52.
4066-01	NE-5, Auxiliary IC Trk Ckt.	DA	C	2X83AA	
4091-01	NE-5, X-Bar OG Trk Ckt.	EAS	C	2X82AA	
4146-01	NE-5, X-Bar 2-W Trk Ckt.	IE	C	2X81	36.
4147-01	SA-1, OG Trk Ckt.	SP	CC	2X81AA	37, +38.
4166-01	SA-1, 2-W Trk. Ckt.	OO	CC	2X81AA	37, +38.
4178-01	IC InterLocal Trk. Cct.	IE	C	2X83AA	
4179-01	OG InterLocal Trk. Cct.	IE	C	2X82AA	
4189-01	SA-1, XBT OG CAMA Trk Ckt.	CA	C	2X81AA	1,39
6771-01	4W E&M SF Sig. Unit	IT	C	2X72AA	59.
6784-01	Duplex Sig. Unit	IT	C	2X72AA	59.
6494-01	MA-Type Carrier QML18	IT	C	2X72AA	59.
--------	4-Wire Integrated SF Trk. Ckt.	IT TC	CC	2X78AA	
25578-01	NE-5, X-Bar OG Trk Ckt.	EAS	C	2X82AA	

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
25823-01	NE-5, X-Bar OGT	DDD	C	2X82AA	40.
25842-01	NE-5, X-Bar, 2-Way IT Trk. Ckt.	IT TC	C	2X81AA	1.
25843-01	NE-5 X-Bar, 2-Way IT Trk. Ckt.	IT TC	C	2X81AA	1.
25844-01	NE-5 X-Bar, IC, IT Trk. Ckt.	IT TS	C	2X81AA	1.
25846-01	NE-5 X-Bar, OG, IT Trk. Ckt.	IT TC	C	2X81AA	1.
25847-01	NE-5 X-Bar, OG, IT Trk. Ckt.	IT TC	C	2X81AA	1.
25887-01	X-Bar TDM Inc. Trk	TWX	CC	2X83AA	
25909-01	XBT, IC, TDM Trk. Ckt.	IT TT	C	2X81AA	1.
26070-01	NE-5 X-Bar, IC Trk. Ckt.	IE CA	C	2X83AA	
26071-01	NE-5 X-Bar, IC Trk. Ckt.	TM	C	2X83AA	
26073-01	NE-5 X-Bar, IC Trk Ckt.	IE	C	2X83AA	
26074-01	NE-5 X-Bar, IC Trk. Ckt.	IE	C	2X81AA	
26077-01	NE-5 X-Bar, IC Trk. Ckt.	IE TO	CC	2X83AA	53, +56.
26085-01 +26116-01	NE-5 X-Bar, OG Trk. Ckt.	IE CA	C	2X82AA	
26123-01	NE-5 X-Bar,IC Trk. Ckt.	TC	C	2X81AA	1.
26178-01	NE-5 X-Bar,OG Trk. Ckt.	TC	C	2X82AA	12.

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
26257-01	NE-5 X-Bar,IC Trk. Ckt.	IE	C	2X83AA	
27000-01	XBT, 2-Way IT Trk. Ckt.	IT	C	2X81AA	1.
27003-01	XBT, 2-Way IT Trk. Ckt.	IT TC	C	2X81AA	1.
27061-01	XBT, IC, CA Trk. Ckt.	IE CA	C	2X83AA	
27103-01	XBT, IC, CA Trk. Ckt.	CA	C	2X81AA	1.
27580-01	NE-5 X-Bar, IC Trk. Ckt.	IE DDD	C	2X93AA	
27581-01	NE-5 X-Bar, IC Trk. Ckt.	IE DDD	C	2X83AA	
27686-01	NE-5 X-Bar, IC Trk.Ckt.	IE-TDM CTX	C	2X92AA	12.
30200-01	SXS, Local IC Selector Ckt.	IE CA	C	2X83AA	
30200-01	Co-Located SXS, with S lead Cont.	IE	CC	2X98AA	2.
30976-01	SXS, IC Selector Ckt.	IE	C	2X83AA	
30976-01	SXS, IC Selector Ckt.	TC	CC	2X72AA	1,32 +59.
31147-01	SXS, OG Trk. Ckt.	IE	C	2X82AA	62.
31685-01	SXS, 2 Way RC, TT Trk. Ckt.	RC, TT	C	2X81AA	1.
31722-01	SXS, IC Trk. Ckt.	TC	C	2X83AA	
31726-01	SXS, IC Selector	TC	C	2X72AA	1,59

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
31775-01	SXS, 2 Way RC,TT Trk. Ckt.	RR, TT	C	2X81AA	1,33
31779-01	SCS, No.1 OG Pulse Rptr. Ckt.	IE TM TC	C	2X82AA	
32199-01	SXS, OG, Trk. Ckt.	CA LA	C	2X82AA	
32240-01	SXS, OG, Trk. Ckt.	IE CA	C	2X82AA	
32241-01	SXS, OG, Trk. Ckt.	IE CA	C	2X81AA	1.
32524-01	SXS, OG Pulse Rptr. Ckt.	IE TM TC	C	2X82AA	
55341-01	NE-3, 3C, 3CL Swbd. TS Trk. Ckt.	VR	NC		3.
55346-01	NE-3C1 Swbd. TS Trk. Ckt. (NCN)	VR TS	C	2X86AA	
55346-01 +64424-01	NE-3C1 Swbd. TS Trk. Ckt. (CN)	TS	C	2X86AA	
55381-01	3CL Swbd.RC	CC		2X72AA	1,59
55872-01	NE-3C1 Swbd. RC Trk. Ckt. (NCN)	RC	C	2X85AA	
55875-01	NE-3C1 Swbd. RC Trk. Ckt. (CN)	RC	C	2X85AA	
55879-01	NE-3C1 Swbd. TS Trk. Ckt.	VR TS	C	2X86AA	
56007-01	NE-3, 3C, 3C1 Swbd. RC Trk. Ckt.	CRC (NCN)	NC		4.

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
56008-01	NE-3, 3C, 3C1 Swbd. Rc Trk. ckt. (CN)	RC	NC		5.
56478-01	RC Trk. Ckt.	RC	CC	2X81AB	37.
56483-01	TS Trk. Ckt.	VR	CC	2X72AA	11, +34, +59.
62441-01	NE-3, 3C, Swbd. Rc Trk. (CN)	RC	NC		60
64472-01	SXS, 2 Way IT, OG, Trk. Ckt.	IT CA	C	2X81AA	1.
64754-01	TS, NE-3, IC 2W, Trk. Ckt.	RS	C	2X85AA	61.
68135-01	4AXB, IC, IT or Toll TDM Trk. Ckt	IT	C	2X88AA	6.
68230-01	4AXB, IC, IT or Toll TDM Trk. Ckt	IT	C	2X88AA	6.
68231-01	4AXB, OG, IT Trk. Ckt.	IT	C	2X88AA	6.
68232-01	4AXB, 2 Way IT Trk. Ckt.	IT OO	C	2X88AA	6.
68233-01	4AXB, 2 Way IT Trk. Ckt.	IT OO	C	2X88AA	6.
68325-01	4AXB, TS Trk. Ckt.	TS	C	2X82AA	
68326-01	4AXB, TS Trk. Ckt.	TS TC	C	2X82AA	
68479-01	4AXB, Toll, CA, IC Trk. Ckt.	CA	C	2X81AA	
68481-01	4AXB, Toll, CA, IC Trk. Ckt.	CA	C	2X81AA	
68482-01	4AXB, Toll, CA, IC Trk. Ckt.	TC CA	C	2X83AA	
68514-01	4AXB, OG, TS Trk. Ckt.	TS	C	2X81AA	

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
68579-01	4AXB, 2 Way, IT Trk. Ckt.	IT OO	C	2X88AA	6.
68581-01	4AXB, IC, IT or TT Trk. Ckt.	IT	C	2X88AA	6.
68582-01	4AXB, OG, IT Trk. Ckt.	IT	C	2X88AA	6.
68595-01	4AXB, OG, TS Trk. Ckt.	TS	C	2X81AA	
68962-01	4AXB, OG, TS Trk. Ckt.	IE TS TC	C	2X82AA	
90527-01	7A Desk, IC, IN Trk. Ckt.	DA	CC	2X83AA	7.
95060-01	XBT, OG, IT Trk. Ckt.	IT	C	2X81AA	1.
95513-01	NE-23 Desk IC, IN, Trk. Ckt.	DA	CC	2X83AA	8.
95612-01 95737-01	#14 LTD-Pri. Sec. Test. Ckt.	TK	C	2X90AB	
95737-01	#14 LTD, IC or OG Test Trk. Ckt.	TK	C	2X90AB	
95740-01	NE-1, NE-3, 3CL Swbd. IR Trk. Ckt	IR	C	2X85AA	61.
95782-01	#14 LTD, RS Desk #2, IC Trk. Ckt.	RS	CC	2X83AA	44, +61.
95789-01	NE-23 E and F Desk, IC, IR Trk. Ckt.	IR	CC	2X83AA	44, +57.
95853-01	CA Swbd Pos., ANI, ONI (Same Bld. App.)	CA	C	2X65AA	
95868-01	CA Swbd Pos., Calls Waiting Trk. Ckt.	CA	C	2X66AA	
95872-01	CA Swbd Pos., Suspension Trk. Ckt	CA	C	2X66AA	

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
96481-01 96482-01	CA Swbd Pos., ANI, ONI (Dis. Bld. App.)	CA	C	2X65AA	
99434-01	NE-3 type, 2-Way Swbd. Trk. Ckt.	RS	C	2X85AA	61.
1Y35-01 +1Y41-01	SP-1, 2W, OG Trk. Ckt.	IE TM	C	2X82AA	
1Y37-01	SP-1, 2W, Aux. Trk. Ckt.	CA	C	2X82AA	
1Y37-01	SP-1, 2W, Aux. Trk. Ckt.	CA LA	C	2X82AA	
1Y41-01	SP-1 OG Trk. Ckt. for RB Supv.	EAS	CC	2x82AA	
1Y55-01	SP-1, 2W, 2 Way Trk. Ckt.	IE	C	2X81AA	10.
1Y56-01	SP-1, 2W, 2 Way Trk. Ckt.	IE	C	2X81AA	10.
1Y60-01	SP-1, 2W, IC Trk. Ckt.	IE	C	2X83AA	12.
1Y61-01	SP-1, 2W, IC Trk. Ckt.	IE	C	2X81AA	
1Y62-01	SP-1, 2W, IC Trk. Ckt.	IE	C	2X83AA	12.
1Y64-01	SP-1, 2W, IC Trk. Ckt.	IE TM CA	C	2X83AA	12.
1Y64-01	SP-1, 2W, IC Trk. Ckt.	TC EAS	CC	2X92AA	
1Y65-01	SP-1, 2W, IC Trk. Ckt.	IE	C	2X81AA	1.
1Y66-01	SP-1, 2W, IC Trk. Ckt.	IE TM	C	2X83AA	12.
1Y67-01	SP-1, 2W, IC Trk. Ckt.	IE TG	C	2X81AA	1.

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
1Y70-01	SP-1, IC Trk Ckt. from NE--3 CL Swbd.	VR	CC	2X92AA	50.
2Y39-01	SP-1, 2W, IC Trk. Ckt.	IE	C	2X83AA	12.
2Y83-01	SP-1, 4W, IC Trk. Ckt.	DDD CA	C	2X83AA	11.
2Y84-01	SP-1, 4W, IC Trk. Ckt.	IT	C	2X88AA	6.
2Y84-01 +2Y85-01	SP-1, 4W, 2-Way Trk. Ckt.	IT	C	2X88AA	6.
2Y86-01	SP-1, 4W, OG Trk. Ckt.	IT TC	C	2X88AA	6.
2Y87-01	SP-1, 4W, OG Trk. Ckt.	IT TC TM	C	2X82AA	11.
5Y15-01	SP-1, OG Trk. Ckt. for TSPS	SP	CC	2X82AA	
1A165-01	#1 ESS, OG Trk. Ckt.	IE TC CA TM	C	2X82AA	
1A166-01	#1 ESS, IC Trk. Ckt.	IE TC CA TC	C	2X83AA	
1A203-01	#1 ESS, OG Trk. Ckt.	DDD LA	C	2X82AA	
1A236-01	#1 ESS, 2 Way Trk. Ckt.	TC	C	2X88AA	6.
1A237-01	#1 ESS, 2 Way Trk. Ckt.	TC	C	2X88AA	6.
1A252-01	#1 ESS, 2 Way Trk. Ckt.	IE	C	2X81AA	

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
1A266-01	#1 ESS, IC Trk. Ckt.	IE TM	C	2X83AA	
1C453-01 MTUCA	#4 ESS, 2 Way Trk. Ckt.	DDD	C	2X81AA	1,11
1C453-01 MTUCA	#4 ESS, OG Trk. Ckt.	TC TS	C	2X82AA	
1C453-01 MTUCA	#4 ESS, IC Trk. Ckt.	DDD	C	2X83AA	12.
	CALRS	TK	C	2X90AA	
		MAP	C	1X54AA	
1-500 Type Tel.	1A2 Key Equipment	MAP	C	5X30AA	13.
QVF12DLL	DE-3FX,QPP371	MAP	C	5X30AA	14.
	CCITT R1 Trunk		C	5X03AA	
	CCITT No.5 Trunk		C	5X04AA	
	CCITT No.6 Trunk		C	5X06AA	
QPC72	SL-1 PBX Trunk	DID	CC	2X83AA	
QPJ76	SG-1 PBX Trunk	DID	CC	2X83AA	
LSC 072-182-A-1	ITT, OG,LP Trk	EAS	C	2X82AA	
LSC 072-202-A-1	ITT, IC, TT Trk	EAS	C	2X83AA	

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
CS704759 +CS704524	Motorswitch System (USI) OG Trk to Dial Office Impulse Controller	EAS	C	2X82AA	
370732	(LME) SXS Sys. Function Trk.	CAMA	CC	2X82AA	
TCS 1400 AS-1	Rep. Serv. Call Distr. Sys. (RSCDS)	RS	CC	2X83AA	61.
H75277	AE Local, IC Selector Ckt.	IN	C	2X83AA	15.
H83061	AE OG, TS, Trk. Ckt. (CN)	TS	CC	2X86AA	16.
H83069	AE RC Trk. Ckt.	RC	NC		17.
H83071	AE RC Trk. Ckt.	RC	NC		17.
H83080	AE OG, TS Trk. Ckt. (NCN)	TS	CC	2X81AA	18.
H85267	AE Intercept Trk.	IR	CC	2X83AA	43.
H85272	AE Test Desk and Pos Ckt.	TK	CC	3X04AA	
H85275C	AE Test Desk	TK	CC	3X04AA	54.
H580176 -1A	AE Local IC Selector Ckt.	IE	CC	2X83AA	19.
H580294 -A1A	AE Local, IC Selector Ckt.	IE	CC	2X83AA	20.
H610010 -A1A	AE OG Trk. Ckt.	IE	C	2X82AA	
H610010 -1B	AE OG Trk. Ckt.	IE	CC	2X82AA	21.
H610144 -A1A	AE 2-Way Trk. Ckt.	IE	CC	2X81AA	22.

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Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
PH3635	AE OG, LP Trk. Ckt.	IE	CC	2X82AA	21.
H600888 ITEC	Universal (OG) Trk. Ckt.	IE	C	2X82AA	
H600888 ITEC	Universal (IC) Trk. Ckt.	IE	C	2X83AA	
600990 ITEC	TSPS/CAMA, OG E&M Trk.	SP	CC	2X78AA	1.
EAS-H30462	GTE Lenkurt Echo Suppressor	IT	CC	2X72AB	23.
EAS-H41209	GTE Lenkurt 4W, Signaling Unit	IT	CC	2X72AA	24, +59.
EAS-H41219	GTE Lenkurt 2,4W Signaling Unit	IT	CC	2X72AA	25, +59.
EAS-30462	GTE Lenkurt Echo Suppressor	IT	CC	2X72AB	23.
EAS-41209	GTE Lenkurt 4W, Signaling Unit	IT	CC	2X72AA	24, +59.
EAS-41219	GTE Lenkurt 2,4W Signaling Unit	IT	CC	2X72AA	25, +59
S-440810	Stromberg-Carlson ONI Turret	ONI	CC	2X65 +5X74 +5X77	57.
S-440815 +SD95853	Stromberg-Carlson ONI Turret	ONI	CC	2X65 +5X50	
S-440815	Stromberg-Carlson ONI Turret	ONI	CC	2X65 +5X74 +5X77	

—continued—

Table 2-3
Circuit Compatibility (continued)

CONNECT CCT SD NO.	TITLE	*TRK* FU-NC	TRK COMP LGND	*NT PEC	*NOTE REF # TAB.D
S-441251	Stromberg-Carlson ONI Link	ONI		2X65 +5X74 +5X77	58.
S-33192	Stromberg-Carlson OG Trk‘	EAS	C	2X82AA	40.
S-33199	Stromberg-Carlson IC Trk	EAS	C	2X83AA	40.
S-33257	Stromberg-Carlson IC Trk	EAS	C	2X83AA	40.
S-33266	Stromberg-Carlson OG Trk	EAS	C	2X82AA	40.
S-33325	Stromberg-Carlson OG Trk	EAS	C	2X82AA	40.
S-33348	Stromberg-Carlson IC Trk	EAS	C	2X83AA	40.
S-408090	Stromberg-Carlson OG Trk	EAS	C	2X82AA	40.
S-408124	Stromberg-Carlson OG Trk	EAS	C	2X82AA	40.
S-408234	Stromberg-Carlson OG Trk	EAS	C	2X82AA	40.

TRUNK COMPATIBILITY LEGEND (LGND)

C - Circuit is compatible with DMS-100 Family.

CC - Circuit is conditionally compatible with DMS-100 Family.

Conditions described in Notes.

NC - Circuit is not compatible with DMS-100 Family.

—end—

Table 2-4
Compatibility notes

Note No.	Remarks
1	Instead of NT2X81AA: For Intertoll or Toll-Connecting applications: NT2X72AA or, For Intertoll applications: NT2X78AA can be used with the following conditions: • 4W-TS (24V4 or equivalent) is required for 2W trunks. • For NT2X72AA, transmission facility must provide correct type of D1 E&M interface. • For NT2X78AA, transmission facility must be compatible with 2600 Hz SF signaling (e.g. use of QVF-1 Signaling Unit at far end). • For co-located applications see Note 18.
2	Sleeve lead control via auxiliary outgoing trunk circuit SD32524-01 or equivalent.
3	Instead of SD55341-01, use of SD55346-01 or SD55879-01 depending upon the type of key pulsing (KP) provided at the position (DCKP or MFKP respectively), with DMS trunk NT2X86AA is recommended.
4	Instead of SD56008-01, use of SD55872-01 with DMS trunk NT2X85AA is recommended.
5	Instead of SD56008-01, use of SD55875-01 with DMS trunk NT2X85AA is recommended.
6	NT2X88AA is designed for Type II E&M signaling interface. An applique circuit SD99774-01 is required for other types. For Intertoll applications, NT2X72AA or NT2X78AA can be used as described in Note 1.
7	SD90527-01, Fig. 3A is the only option compatible with NT2X83AA.
8	SD95513-01, Fig. 3C are the options compatible with NT2X83AA.
9	Compatible only for regular intercept option.
10	2 Way trunks may be used as one way.
11	4W-TS (24V4 or equivalent) is required.
12	For MF pulsing applications NT2X92AA (if available) can be used.
13	For local operation.
14	For remote operation.

Note: The Figures referenced in Table D apply to figures in the corresponding Schematic Diagram (SD) numbers.

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Table 2-4
Compatibility notes (continued)

Note No.	Remarks
15	Reverse battery operation is required.
16	Minor wiring modifications are required for coin control. Refer to job drawing.
17	When H83069 or H83071 is used for AE#31 Switchboard RC routes, it must be replaced by NT5X57AA, to be compatible with NT2X85AA.
18	SD83080 can also be used for local verification purposes. For co-located applications QVF-46A (Trunk Link Repeater) or equivalent is required.
19	A selector repeater circuit (H580292-16 or equivalent) should be used. Vertical stepping straps are required for interoffice operating. Dial tone must be disconnected.
20	Reverse battery, ringing etc. must be provided by succed- ding circuits. Use of a pulse repeater circuit is recommended.
21	Calling party control only.
22	Polar duplex signaling feature required.
23	Appropriate strappings for operating levels and echo sup- pression control must be provided.
24	For DP operation, the maximum M lead current must not exceed 25 mA and M lead external resistance should be less than 1000 ohms. A 4-wire attenuator is required to match the transmission levels. (e.g. QVF-30A).
25	An external 4-wire line attenuator (e.g. QVF -30A or equivalent) must be provided to obtain correct transmission levels.
26	Same-building application.
27	Distant-building application.
28	CAMA Calls-Waiting.
29	CAMA Suspension.
30	Without Coin Control (3rd Wire).
31	Sleeve Lead Control.
32	SD30976-01 is compatible with 2X72AA provided Fig. 3 with Y App. and wiring is used.
33	SD31775-01 is compatible with 2X81AA provided Fig. C is used.
34	QVF46A Trunk Link Repeater is required.

Note: The Figures referenced in Table D apply to figures in the corresponding Schematic Diagram (SD) numbers.

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Table 2-4
Compatibility notes (continued)

Note No.	Remarks
35	SD3286-01 is compatible with NT2X72AA provided Fig. 1, A, B are equipped.
36	SD4146-01 is compatible with NT2X81 provided Fig. 3 option T is equipped.
37	Choose appropriate options.
38	Fig. 1 or 3 can be used.
39	E and M option is required.
40	Ensure 900 ohm impedance.
41	Use option Y.
42	This route is not used for ONI traffic.
43	Requires use of applique circuit 5X71AA (opt Z) Fig. 5.
44	Requires use of applique circuit 5X71AA (Opt. Y).
45	SL-1 PBX.
46	SG-1 PBX.
47	Choose compatible trunk circuit.
48	#3 LTC IC/OG trunk circuit.
49	SARTS system.
50	Without rering and third wire.
51	Inband coin control.
52	Option YH (Fig. 3) is required.
53	By link trunk for immediate dial require 120 MS before outpulsing. Currently DMS will wait only 70 ms but this is an office parameter that can be adjusted.
54	Fig. 2 required. Fig. 1 or 15.
55	Calling party has control on disconnect.
56	Remote Make Busy is not possible.
57	Fig. 1 or 2 only. Modify for MF operation.
58	Fig. 5 or 6 only. Modify for MF operation.

Note: The Figures referenced in Table D apply to figures in the corresponding Schematic Diagram (SD) numbers.

—continued—

Table 2-4
Compatibility notes (continued)

Note No.	Remarks
59	For direct carrier applications, where built-in attenuators are not available in the external signaling units, NT2X72AC should be ordered.
60	Instead of SD62441-01, use of SD 55875-01 with DMS trunk NT2X85AA is recommended.
61	Use NT2X85AA only for software release BCS-6 or higher.
62	If SD31147-01 is used as an OG repeater circuit to a DMS IC trunk through an SXS Tandem office, DMS standard disconnect timing should be extended to at least 250 ms.
63	Minor wiring modification on sleeve lead is required on H580258.
64	NT3X06 and NT3X07 terminate at co-located #3C, #3CL, or AE#31 switchboard desk.

Note: The Figures referenced in Table D apply to figures in the corresponding Schematic Diagram (SD) numbers.

—end—

Table 2-5
Trunk Feature Abbreviations

ABBR	DESCRIPTION
ABBT	Automatic Board-to-Board Testing
ANI	Automatic Number Identification
BG	Battery/Ground Compromise
COMP	(Balance Network)
DD	Delay Dial
DP	Dial Pulsing
DT	DIGITONE*
ESC	Echo Suppressor Control
E&M	Receive and Transmit DC on/off hook
ER	Emergency Ring
ERB	Emergency Ringback

—continued—

Table 2-5
Trunk Feature Abbreviations (continued)

ABBR	DESCRIPTION
FR	Flat Rate
IB	Inband
IBR	Inband Ring
IC	Incoming
ID	Immediate Dial
JH	Joint Hold
HL	High-Low
LP	Loop
MF	Multi-Frequency
MW	Multi-Wink
OG	Outgoing
RB	Reverse Battery
Ring	Forward
RMB	Remote Make Busy
SF	Single Frequency
SG	Stop-Go
SL	Sleeve Lead
SX	Simplex
VR	Verification
WK	Wink
WKO	Winkoff
2-W	Two-way
2W	Two-wire
3W	Third Wire
4W	Four-wire

—end—

Table 2-6
Trunk Function Abbreviations

ABBR	Meaning	Iner Toll	Toll Conn	Inter Local	Misc	Inter nat
AN	Announcement (Machine)				X	
CA	Centralized Automatic Message Accounting (CAMA)			X		X
CCITT	Consultative Committee for International Tele-phone and Telegraph					X
DA	Directory Assistance				X	
DDD	DDD Access		X			
ES	Emergency Service			X		
IE	Interoffice (direct)			X		
IN	Information				X	
IR	Intercept				X	
IT	Intertoll	X				
LA	Local Automatic Message Accounting (LAMA)			X		
MAP	Maintenance and Adminitration Position				X	
MT	Intertandem			X		
OO	Operator Office		X			
RC	Recording Completing		X			
RS	Repair Service				X	
SP	Traffic Service Position		X			
SXS	Step-by-Step			X		
TC	Toll completing		X			

—continued—

Table 2-6
Trunk Function Abbreviations (continued)

ABBR	Meaning	Iner Toll	Toll Conn	Inter Local	Misc	Inter nat
TG	Tandem completing			X		
TK	Test Desk				X	
TM	TS and TC	X				
TO	Tandem originating		X			
TS	Toll switching		X			
TT	Toll Tandem	X				

—end—

DMS-100 Family

Trunk Selection and Compatibility

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