

**WT-90220 PAIRSPAN-2Q
UNIVERSAL DIGITAL CARRIER
(17 sheets)**

- Issue 2 • Change location of shelf label
- Issue 3 • Change MDF designations to show cabling of "AUX" slot for a GCU
 - Provide for an alternate mounting location of the VF connect blocks on the horizontal MDF (FIG. 1)
 - Add FIGs. 13, 14 and 15
- Issue 4 • Change local alarm leads from Minor to Major
- Issue 5 • change designations from "DM" to "UDC"

General

The Pairsan-2Q is a two line digital subscriber carrier system that provides an additional service line to subscriber premises when a second physical pair is not available.

Complete installation instructions are available in the DSC Communications Corporation Equipment Installation Procedures per OSP 302-300-301. This drawing:

- Shall be considered the "Local Practices" referenced in TAP 009 for connection of voice and carrier frequency pairs to central office cross connect points.
- Provides powering and fusing information.
- Provides "E2A" alarm lead cabling instructions.
- Applies to the Wisconsin Bell Region of Ameritech, at the discretion of the local Ameritech engineer.

Engineering and Installation Notes

- 1) **Powering Shelves:** For multiple shelf installations, a Hendry fuse panel, model FGMT 2 13 BR may be used to supply power to the shelves. This shelf has an "A" and "B" power feed. Each power feed shall be fused at 40 amps. Type GMT fuses for shelves shall be 7.5 amps. Fused battery outputs shall be connected to Pairsan shelves as follows:

Shelf 1 (top shelf)	Fuse A #1
Shelf 2	Fuse A #2
Shelf 3	Fuse A #3
Shelf 4	Fuse A #4
Shelf 5	Fuse A #5
Shelf 6	Fuse A #6
Shelf 7	Fuse B #1
Shelf 8	Fuse B #2
Shelf 9	Fuse B #3
Shelf 10	Fuse B #4
Shelf 11	Fuse B #5
Shelf 12	Fuse B #6

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PAIRSPAN-2Q

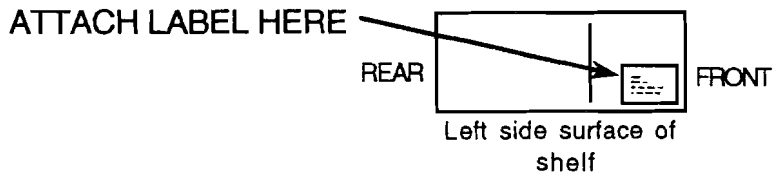
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Dummy fuses for the fuse panel shall be supplied by the Telco engineer from local stock. The vendor engineer shall not order dummy fuses.

In some cases, the number of Pairspan shelves to be installed may not justify the installation of a new fuse panel. The Telco engineer may optionally fuse a shelf from an existing fuse panel. If an existing fuse is used, then note 5 of this drawing will not be applied.

The installer shall place adhesive labels per FIG. 12 (showing shelf numbering, fuse locations, and block locations) on each shelf and write or stamp the connect block locations on the labels.



- 2) **MDF Connect Blocks:** All MDF connect blocks shall be AT&T type 89F1F-100, Comcode 104 024 773. See FIG. 1 for recommended and alternate mounting locations of the Voice Frequency (VF) and Carrier (CXR) pair blocks.

If possible, blocks shall be mounted so that the UDC- count is consecutive from left to right (horizontal) and top to bottom (vertical).

Installer shall use the adhesive designation labels designed by Wisconsin Bell. Call Jim Hegyi at 414-678-0008 for adhesive labels.

Installer shall write or stamp the Relay Rack number and Shelf Number on the VF and CXR connect block designation labels.

- 3) **Cables:** The Pairspan-2Q shelves come from the factory with a short stub cable that ends in three male amphenol 25 pair connectors. For each Pairspan shelf:

- Two 25 pair cables (or equivalent) must be run from the stub end to the MDF connect block for Voice Frequency (VF) pairs.
- One 25 pair cable goes to the connect block for Carrier (CXR) pairs.

All cables shall be 24 awg tinned copper, connectorized on one end with female amphenol connectors. See FIGs. 13, 14 and 15 for cable connections to MDF blocks.

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8 shelf discreet alarm leads shall be run from the backplane of each shelf to the horizontal MDF connect block. Installer may use a small 24 awg cable or 24 awg "P" wire. Connect as follows:

Backplane Terminal	Horizontal MDF Conn Block Designation
MAJ "T"	MJ
MAJ "R"	RTN (return for MJ lead)
MIN "T"	MN
MIN "R"	RTN (return for MN lead)
SYSID "T"	SID
SYSID "R"	RTN (return for SID lead)
ACO "T"	ACO
ACO "R"	RTN (return for ACO lead)

NOTE: *If Backplane Alarm terminations have been previously wired by the factory, the factory wiring must be removed.*

- 4) **Shelf Numbering and Relationship to UDC- Number:** The first Pairspan-2Q shelf shall be the top-most shelf, closest to the Hendry fuse panel. The relationship between shelves and UDC- number is as follows:

Shelf 1	UDC 001 to UDC 022	Card Slots 1 ---> 22
Shelf 2	UDC 023 to UDC 044	Card Slots 1 ---> 22
Shelf 3	UDC 045 to UDC 066	Card Slots 1 ---> 22
Shelf 4	UDC 067 to UDC 088	Card Slots 1 ---> 22
Shelf 5	UDC 089 to UDC 110	Card Slots 1 ---> 22
Shelf 6	UDC 111 to UDC 132	Card Slots 1 ---> 22
Shelf 7	UDC 133 to UDC 154	Card Slots 1 ---> 22
Shelf 8	UDC 155 to UDC 176	Card Slots 1 ---> 22
Shelf 9	UDC 177 to UDC 198	Card Slots 1 ---> 22
Shelf 10	UDC 199 to UDC 220	Card Slots 1 ---> 22
Shelf 11	UDC 221 to UDC 242	Card Slots 1 ---> 22
Shelf 12	UDC 243 to UDC 264	Card Slots 1 ---> 22

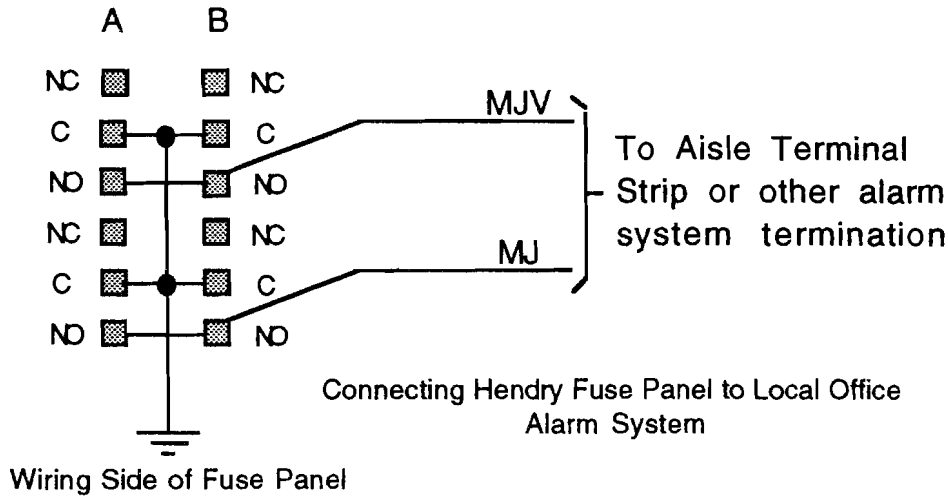
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5) **Fuse Alarms:** The Hendry fuse panel has 2 - "FAIL RELAY" contacts available for fuse alarm outputs. Connect as follows:



In most offices, the "MJ" and "MJV" leads will terminate on an Aisle Terminal Strip. The assignment drawing for aisle terminal strips is usually an T-XXXX-394 drawing. Assign leads "MJ" and "MJV" and cross-connect for a RED aisle pilot and MAJOR audible alarm. If you are uncertain about how to terminate fuse alarm leads, call Jim Hegyi at 414-678-0008.

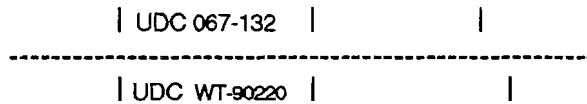
6) **Marking Central Office Drawings:**

The Title of this equipment shall be: "Universal Digital Carrier" or "UNVRSL DIG CXR" or "UDC"

The Drawing number of this equipment shall be "WT-90220"

MDF drawings (showing the location of connect blocks) shall be marked as follows:

- The block shall be shown as "UDC-WT90220"
- The block assignments (UDC- numbers) shall be associated with each block. Example (horizontal side shown):

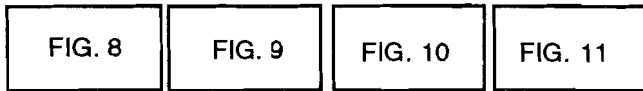


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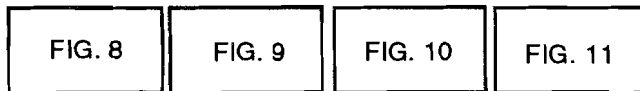
HORIZONTAL MDF

**RECOMMENDED
ARRANGEMENT FOR MDF
CONNECT BLOCKS**

**NOTE: BLOCK POSITIONS
MAY VARY DEPENDING ON
AVAILABLE MDF SPACE**



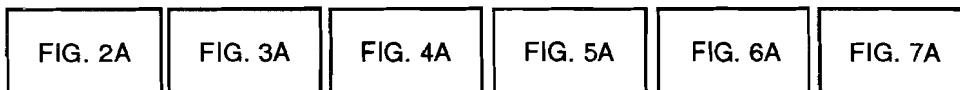
VERTICAL MDF



HORIZONTAL MDF

**ALTERNATE ARRANGEMENT FOR MDF
CONNECT BLOCKS
(MUST BE AUTHORIZED BY THE TELCO
EQUIPMENT ENGINEER)**

**NOTE: BLOCK POSITIONS MAY VARY
DEPENDING ON AVAILABLE MDF SPACE**



HORIZONTAL MDF

**WT-90220
PAIRSPAN-2Q
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FIG. 1

UDC 045

-->

UDC 066

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CARRIER**

**Voice Freq
(VF) Pairs
DSC PAIRSPAN-2Q**

UDC 067

-->

UDC 088

WT-90220 FIG. 3
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UDC 001

-->

UDC 022

**UNIVERSAL
DIGITAL
CARRIER**

**Voice Freq
(VF) Pairs
DSC PAIRSPAN-2Q**

UDC 023

-->

UDC 044

WT-90220 FIG. 2
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**WT-90220
PAIRSPAN-2Q
UNIVERSAL DIGITAL CARRIER**

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Adhesive Labels for AT&T type 89F1F-100
Connect Block
UDC 001 ---> UDC 088 (FIGS. 2, 3)

Universal Digital Carrier

	T R	T R	T R	T R
UDC 045	Pair 1	Pair 2	Pair 1	Pair 2
UDC 047	Pair 1	Pair 2	Pair 1	Pair 2
UDC 049	Pair 1	Pair 2	Pair 1	Pair 2
UDC 051	Pair 1	Pair 2	Pair 1	Pair 2
UDC 053	Pair 1	Pair 2	Pair 1	Pair 2
UDC 055	Pair 1	Pair 2	Pair 1	Pair 2
UDC 057	Pair 1	Pair 2	Pair 1	Pair 2
UDC 059	Pair 1	Pair 2	Pair 1	Pair 2
UDC 061	Pair 1	Pair 2	Pair 1	Pair 2
UDC 063	Pair 1	Pair 2	Pair 1	Pair 2
UDC 065	Pair 1	Pair 2	Pair 1	Pair 2
	↑ RR: SHELF:			
	↓ RR: SHELF:			
UDC 067	Pair 1	Pair 2	Pair 1	Pair 2
UDC 069	Pair 1	Pair 2	Pair 1	Pair 2
UDC 071	Pair 1	Pair 2	Pair 1	Pair 2
UDC 073	Pair 1	Pair 2	Pair 1	Pair 2
UDC 075	Pair 1	Pair 2	Pair 1	Pair 2
UDC 077	Pair 1	Pair 2	Pair 1	Pair 2
UDC 079	Pair 1	Pair 2	Pair 1	Pair 2
UDC 081	Pair 1	Pair 2	Pair 1	Pair 2
UDC 083	Pair 1	Pair 2	Pair 1	Pair 2
UDC 085	Pair 1	Pair 2	Pair 1	Pair 2
UDC 087	Pair 1	Pair 2	Pair 1	Pair 2
	T R	T R	T R	T R

X-Conn to
LENs or
other voice
frequency
interface

WT-90220 FIG. 3

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Universal Digital Carrier

	T R	T R	T R	T R
UDC 001	Pair 1	Pair 2	Pair 1	Pair 2
UDC 003	Pair 1	Pair 2	Pair 1	Pair 2
UDC 005	Pair 1	Pair 2	Pair 1	Pair 2
UDC 007	Pair 1	Pair 2	Pair 1	Pair 2
UDC 009	Pair 1	Pair 2	Pair 1	Pair 2
UDC 011	Pair 1	Pair 2	Pair 1	Pair 2
UDC 013	Pair 1	Pair 2	Pair 1	Pair 2
UDC 015	Pair 1	Pair 2	Pair 1	Pair 2
UDC 017	Pair 1	Pair 2	Pair 1	Pair 2
UDC 019	Pair 1	Pair 2	Pair 1	Pair 2
UDC 021	Pair 1	Pair 2	Pair 1	Pair 2
	↑ RR: SHELF:			
	↓ RR: SHELF:			
UDC 023	Pair 1	Pair 2	Pair 1	Pair 2
UDC 025	Pair 1	Pair 2	Pair 1	Pair 2
UDC 027	Pair 1	Pair 2	Pair 1	Pair 2
UDC 029	Pair 1	Pair 2	Pair 1	Pair 2
UDC 031	Pair 1	Pair 2	Pair 1	Pair 2
UDC 033	Pair 1	Pair 2	Pair 1	Pair 2
UDC 035	Pair 1	Pair 2	Pair 1	Pair 2
UDC 037	Pair 1	Pair 2	Pair 1	Pair 2
UDC 039	Pair 1	Pair 2	Pair 1	Pair 2
UDC 041	Pair 1	Pair 2	Pair 1	Pair 2
UDC 043	Pair 1	Pair 2	Pair 1	Pair 2
	T R	T R	T R	T R

X-Conn to
LENs or
other voice
frequency
interface

WT-90220 FIG. 2

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UDC 123
-->
UDC 154

**UNIVERSAL
DIGITAL
CARRIER**
Voice Freq
(VF) Pairs
DSC PAIRSPAN-2Q

UDC 155
-->
UDC 176

WT-90220 FIG. 5
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UDC 089
-->
UDC 110

**UNIVERSAL
DIGITAL
CARRIER**
Voice Freq
(VF) Pairs
DSC PAIRSPAN-2Q

UDC 111
-->
UDC 132

WT-90220 FIG. 4
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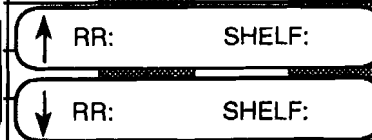
DATE: 2-20-95
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Adhesive Labels for AT&T type 89F1F-100 Connect
Block
UDC 089 ---> UDC 176 (FIGS. 4, 5)

Universal Digital Carrier

	T	R	T	R	T	R	T	R
UDC 133	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 135	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 137	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 139	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 141	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 143	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 145	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 147	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 149	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 151	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 153	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2

X-Conn to
LENs or
other voice
frequency
interface



UDC 155	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 157	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 159	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 161	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 163	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 165	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 167	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 169	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 171	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 173	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 175	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2

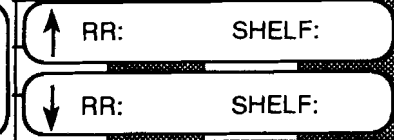
WT-90220 FIG. 5

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Universal Digital Carrier

	T	R	T	R	T	R	T	R
UDC 089	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 091	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 093	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 095	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 097	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 099	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 101	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 103	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 105	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 107	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 109	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2

X-Conn to
LENs or
other voice
frequency
interface



UDC 111	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 113	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 115	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 117	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 119	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 121	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 123	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 125	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 127	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 129	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 131	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2

WT-90220 FIG. 4

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UDC 221
-->
UDC 242

**UNIVERSAL
DIGITAL
CARRIER**
Voice Freq
(VF) Pairs
DSC PAIRSPAN-2Q

UDC 243
-->
UDC 264

WT-90220 FIG. 7
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UDC 177
-->
UDC 198

**UNIVERSAL
DIGITAL
CARRIER**
Voice Freq
(VF) Pairs
DSC PAIRSPAN-2Q

UDC 199
-->
UDC 220

WT-90220 FIG. 6
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WT-90220
PAIRSPAN-2Q
UNIVERSAL DIGITAL CARRIER

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Adhesive Labels for AT&T type 89F1F-100 Connect
Block

UDC 177 ---> UDC 264 (FIGS. 6, 7)

Universal Digital Carrier

	T R	T R	T R	T R
UDC 221	Pair 1	Pair 2	Pair 1	Pair 2
UDC 223	Pair 1	Pair 2	Pair 1	Pair 2
UDC 225	Pair 1	Pair 2	Pair 1	Pair 2
UDC 227	Pair 1	Pair 2	Pair 1	Pair 2
UDC 229	Pair 1	Pair 2	Pair 1	Pair 2
UDC 231	Pair 1	Pair 2	Pair 1	Pair 2
UDC 233	Pair 1	Pair 2	Pair 1	Pair 2
UDC 235	Pair 1	Pair 2	Pair 1	Pair 2
UDC 237	Pair 1	Pair 2	Pair 1	Pair 2
UDC 239	Pair 1	Pair 2	Pair 1	Pair 2
UDC 241	Pair 1	Pair 2	Pair 1	Pair 2
X-Conn to LENe or other voice frequency interface	↑ RR:	SHELF:		
	↓ RR:	SHELF:		
UDC 243	Pair 1	Pair 2	Pair 1	Pair 2
UDC 245	Pair 1	Pair 2	Pair 1	Pair 2
UDC 247	Pair 1	Pair 2	Pair 1	Pair 2
UDC 249	Pair 1	Pair 2	Pair 1	Pair 2
UDC 251	Pair 1	Pair 2	Pair 1	Pair 2
UDC 253	Pair 1	Pair 2	Pair 1	Pair 2
UDC 255	Pair 1	Pair 2	Pair 1	Pair 2
UDC 257	Pair 1	Pair 2	Pair 1	Pair 2
UDC 259	Pair 1	Pair 2	Pair 1	Pair 2
UDC 261	Pair 1	Pair 2	Pair 1	Pair 2
UDC 263	Pair 1	Pair 2	Pair 1	Pair 2
	T R	T R	T R	T R

WT-90220 FIG. 7

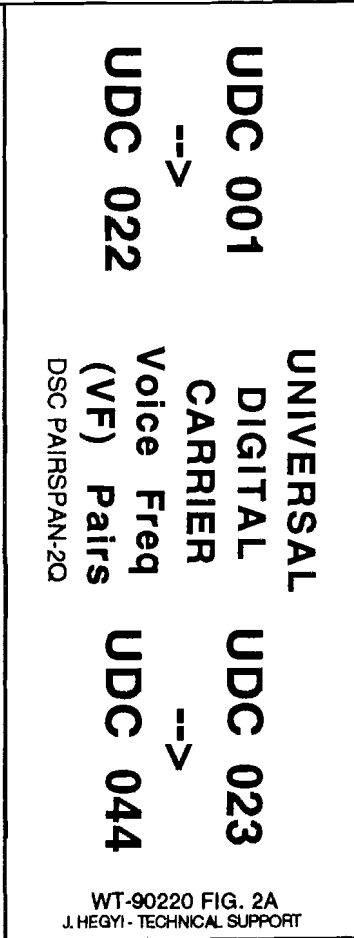
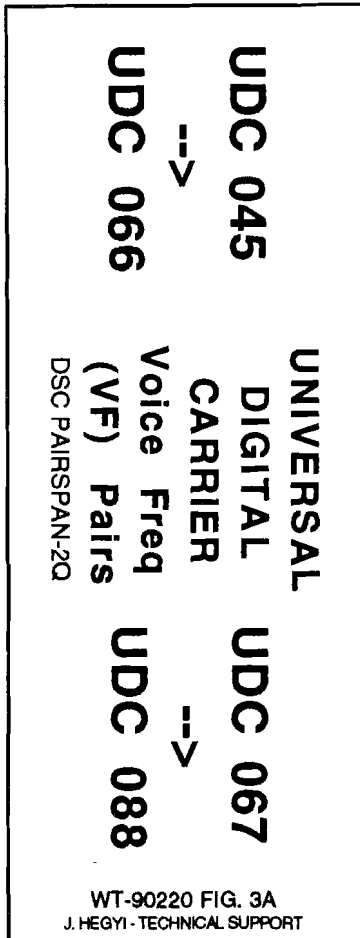
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Universal Digital Carrier

	T R	T R	T R	T R
UDC 177	Pair 1	Pair 2	Pair 1	Pair 2
UDC 179	Pair 1	Pair 2	Pair 1	Pair 2
UDC 181	Pair 1	Pair 2	Pair 1	Pair 2
UDC 183	Pair 1	Pair 2	Pair 1	Pair 2
UDC 185	Pair 1	Pair 2	Pair 1	Pair 2
UDC 187	Pair 1	Pair 2	Pair 1	Pair 2
UDC 189	Pair 1	Pair 2	Pair 1	Pair 2
UDC 191	Pair 1	Pair 2	Pair 1	Pair 2
UDC 193	Pair 1	Pair 2	Pair 1	Pair 2
UDC 195	Pair 1	Pair 2	Pair 1	Pair 2
UDC 197	Pair 1	Pair 2	Pair 1	Pair 2
X-Conn to LENe or other voice frequency interface	↑ RR:	SHELF:		
	↓ RR:	SHELF:		
UDC 199	Pair 1	Pair 2	Pair 1	Pair 2
UDC 201	Pair 1	Pair 2	Pair 1	Pair 2
UDC 203	Pair 1	Pair 2	Pair 1	Pair 2
UDC 205	Pair 1	Pair 2	Pair 1	Pair 2
UDC 207	Pair 1	Pair 2	Pair 1	Pair 2
UDC 209	Pair 1	Pair 2	Pair 1	Pair 2
UDC 211	Pair 1	Pair 2	Pair 1	Pair 2
UDC 213	Pair 1	Pair 2	Pair 1	Pair 2
UDC 215	Pair 1	Pair 2	Pair 1	Pair 2
UDC 217	Pair 1	Pair 2	Pair 1	Pair 2
UDC 219	Pair 1	Pair 2	Pair 1	Pair 2
	T R	T R	T R	T R

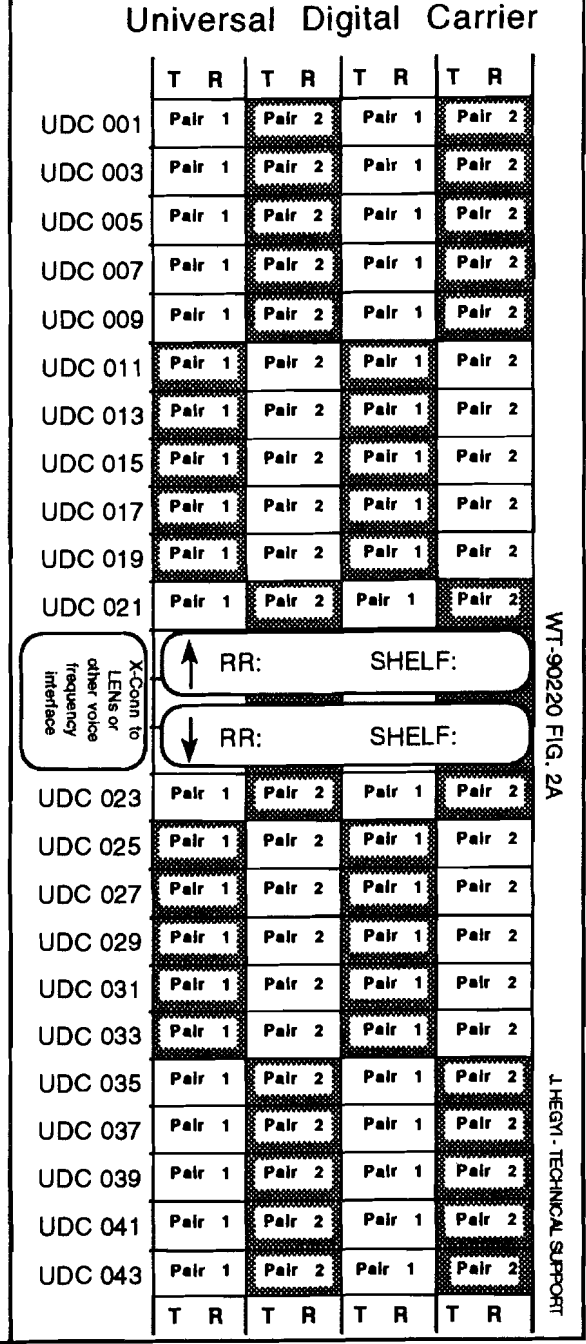
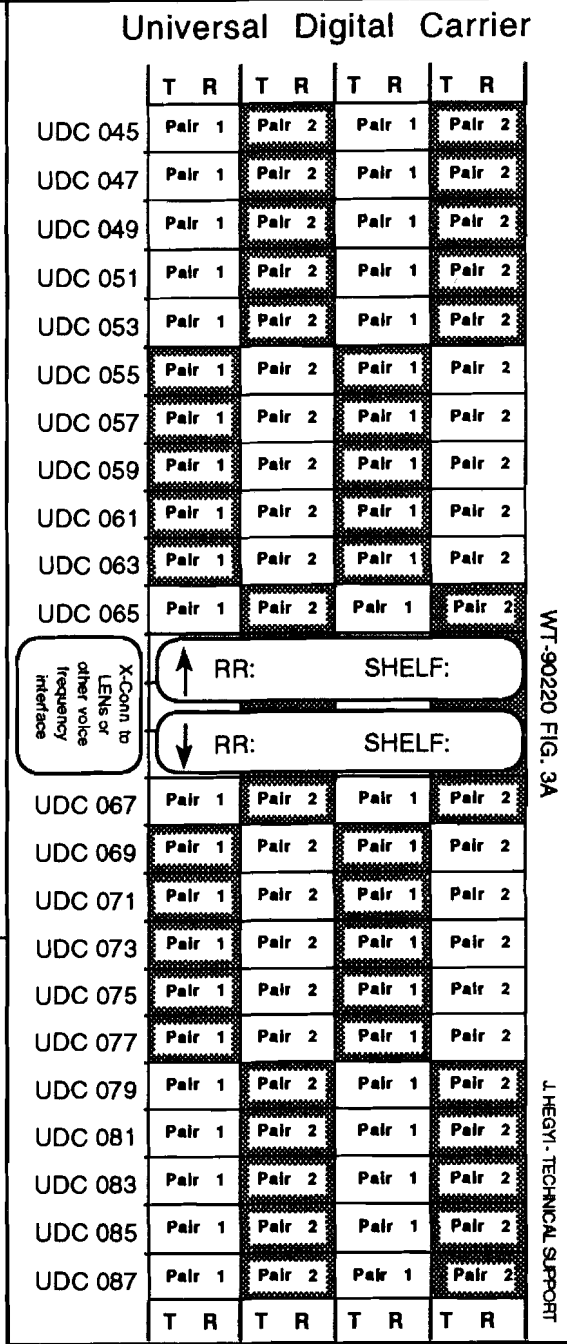
WT-90220 FIG. 6

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PAIRSPAN-2Q
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Adhesive Labels for AT&T type 89F1F-100 Connect Block	
UDC 001 ---> UDC 088 (FIGS. 2A, 3A)	



UNIVERSAL DIGITAL CARRIER

Voice Freq (VF) Pairs

DSC PAIRSPAN-2Q

UDC 123 --->

UDC 154

UDC 155 --->

UDC 176

WT-90220 FIG. 5A
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UNIVERSAL DIGITAL CARRIER

Voice Freq (VF) Pairs

DSC PAIRSPAN-2Q

UDC 089 --->

UDC 110

UDC 111 --->

UDC 132

WT-90220 FIG. 4A
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WT-90220 PAIRSPAN-2Q UNIVERSAL DIGITAL CARRIER

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Adhesive Labels for AT&T type 89F1F-100 Connect Block

UDC 089 ---> UDC 176 (FIGS. 4A, 5A)

Universal Digital Carrier

	T	R	T	R	T	R	T	R
UDC 133	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 135	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 137	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 139	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 141	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 143	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 145	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 147	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 149	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 151	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 153	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
	↑ RR: SHELF:				↓ RR: SHELF:			
UDC 155	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 157	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 159	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 161	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 163	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 165	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 167	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 169	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 171	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 173	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 175	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
	T	R	T	R	T	R	T	R

X-Conn to LENS or other voice frequency interface

WT-90220 FIG. 5A
J. HEGYI - TECHNICAL SUPPORT

Universal Digital Carrier

	T	R	T	R	T	R	T	R
UDC 089	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 091	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 093	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 095	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 097	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 099	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 101	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 103	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 105	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 107	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 109	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
	↑ RR: SHELF:				↓ RR: SHELF:			
UDC 111	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 113	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 115	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 117	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 119	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 121	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 123	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 125	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 127	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 129	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 131	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
	T	R	T	R	T	R	T	R

X-Conn to LENS or other voice frequency interface

WT-90220 FIG. 4A
J. HEGYI - TECHNICAL SUPPORT

UNIVERSAL DIGITAL CARRIER

Voice Freq (VF) Pairs

DSC PAIRSPAN-2Q

<p>UDC 221 ---></p> <p>UDC 242</p>	<p>UDC 243 ---></p> <p>UDC 264</p>
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WT-90220 FIG. 7A
J. HEGYI - TECHNICAL SUPPORT

UNIVERSAL DIGITAL CARRIER

Voice Freq (VF) Pairs

DSC PAIRSPAN-2Q

<p>UDC 177 ---></p> <p>UDC 198</p>	<p>UDC 199 ---></p> <p>UDC 220</p>
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WT-90220 FIG. 6A
J. HEGYI - TECHNICAL SUPPORT

WT-90220 PAIRSPAN-2Q UNIVERSAL DIGITAL CARRIER

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Adhesive Labels for AT&T type 89F1F-100 Connect Block
UDC 177 ---> UDC 264 (FIGS. 6A, 7A)

Universal Digital Carrier

	T	R	T	R	T	R	T	R
UDC 221	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 223	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 225	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 227	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 229	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 231	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 233	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 235	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 237	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 239	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 241	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">X-Conn to LENS or other voice frequency interface</div> <div style="text-align: center;"> <p>↑ RR: SHELF:</p> <p>↓ RR: SHELF:</p> </div> </div>								
UDC 243	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 245	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 247	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 249	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 251	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 253	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 255	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 257	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 259	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 261	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 263	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
	T	R	T	R	T	R	T	R

WT-90220 FIG. 7A
J. HEGYI - TECHNICAL SUPPORT

Universal Digital Carrier

	T	R	T	R	T	R	T	R
UDC 177	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 179	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 181	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 183	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 185	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 187	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 189	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 191	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 193	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 195	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 197	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-size: 8px;">X-Conn to LENS or other voice frequency interface</div> <div style="text-align: center;"> <p>↑ RR: SHELF:</p> <p>↓ RR: SHELF:</p> </div> </div>								
UDC 199	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 201	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 203	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 205	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 207	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 209	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 211	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 213	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 215	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 217	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
UDC 219	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2	Pair 1	Pair 2
	T	R	T	R	T	R	T	R

WT-90220 FIG. 6A
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**White/Blue Binder
(Amphenol Labeled "1")**

Card Slot Number	Channel Number	Tip	Ring
1	1	wh/bl	bl/wh
	2	wh/or	or/wh
2	3	wh/gn	gn/wh
	4	wh/br	br/wh
3	5	wh/sl	sl/wh
	6	rd/bl	bl/rd
4	7	rd/or	or/rd
	8	rd/gn	gn/rd
5	9	rd/bn	br/rd
	10	rd/sl	sl/rd
6	11	bk/bl	bl/bk
	12	bk/or	or/bk
7	13	bk/gn	gn/bk
	14	bk/br	br/bk
8	15	bk/sl	sl/bk
	16	y/bl	bl/y
9	17	y/or	or/y
	18	y/gn	gn/y
10	19	y/br	br/y
	20	y/sl	sl/y
11	21	v/bl	bl/v
	22	v/or	or/v
12	23	v/gn	gh/v
	24	v/br	br/v

v/sl sl/v <-- not used

FIG. 13
Cable connections for
Voice Frequency pairs,
Slots 1 through 12

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**White/Orange Binder
(Amphenol Labeled "2")**

Card Slot Number	Channel Number	Tip	Ring
13	25	wh/bl	bl/wh
	26	wh/or	or/wh
14	27	wh/gn	gn/wh
	28	wh/br	br/wh
15	29	wh/sl	sl/wh
	30	rd/bl	bl/rd
16	31	rd/or	or/rd
	32	rd/gn	gn/rd
17	33	rd/bn	br/rd
	34	rd/sl	sl/rd
18	35	bk/bl	bl/bk
	36	bk/or	or/bk
19	37	bk/gn	gn/bk
	38	bk/br	br/bk
20	39	bk/sl	sl/bk
	40	y/bl	bl/y
21	41	y/or	or/y
	42	y/gn	gn/y
22	43	y/br	br/y
	44	y/sl	sl/y

v/bl	bl/v	<-- not used
v/or	or/v	<-- not used
v/gn	gh/v	<-- not used
v/br	br/v	<-- not used
v/sl	sl/v	<-- not used

FIG. 14
Cable connections for
Voice Frequency pairs,
Slots 13 through 22

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**White/Green Binder
(Amphenol Labeled "3")**

Card Slot Number	Channel Number	Tip	Ring
1	1	wh/bl	bl/wh
2	2	wh/or	or/wh
3	3	wh/gn	gn/wh
4	4	wh/br	br/wh
5	5	wh/sl	sl/wh
6	6	rd/bl	bl/rd
7	7	rd/or	or/rd
8	8	rd/gn	gn/rd
9	9	rd/bn	br/rd
10	10	rd/sl	sl/rd
11	11	bk/bl	bl/bk
12	12	bk/or	or/bk
13	13	bk/gn	gn/bk
14	14	bk/br	br/bk
15	15	bk/sl	sl/bk
16	16	y/bl	bl/y
17	17	y/or	or/y
18	18	y/gn	gn/y
19	19	y/br	br/y
20	20	y/sl	sl/y
21	21	v/bl	bl/v
22	22	v/or	or/v

v/gn gh/v <-- not used
v/br br/v <-- not used
v/sl sl/v <-- not used

FIG. 15
Cable connections for
Carrier Pairs

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ADHESIVE LABELS FOR PAIRSPAN-2Q SHELVES

SHELF 1 FUSE A1 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:	SHELF 7 FUSE B1 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:
SHELF 2 FUSE A2 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:	SHELF 8 FUSE B2 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:
SHELF 3 FUSE A3 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:	SHELF 9 FUSE B3 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:
SHELF 4 FUSE A4 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:	SHELF 10 FUSE B4 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:
SHELF 5 FUSE A5 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:	SHELF 11 FUSE B5 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:
SHELF 6 FUSE A6 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:	SHELF 12 FUSE B6 CXR CONN BLOCK LOC: VF CONN BLOCK LOC:

SHELF:

FUSE LOCATION:

CXR CONN BLOCK LOC:

VF CONN BLOCK LOC:

LABEL FOR SHELVES NOT FUSED
WITH HENDRY FUSE PANEL

43	43	43	43
44	44	44	44
43	43	43	43
44	44	44	44
43	43	43	43
44	44	44	44

Attach labels '43' to the top of the 22nd (AUX) slot.
Attach labels '44' to the bottom of the slot.

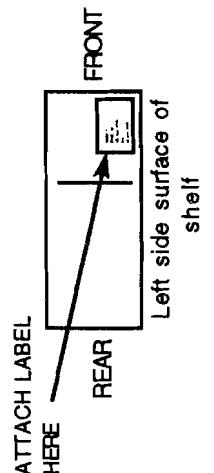


FIG. 12

SHELF LABELS

Installer shall attach adhesive labels to the left surface of the shelf.

Installer shall write or stamp the Voice Frequency and Carrier pair connect block locations on the labels.

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