

**HEAVY TRAFFIC MODULE**  
**CONNECTIONS**  
**701PK PBX**

**1. GENERAL**

**1.01** Connections for the heavy traffic module J58842B of the 701PK PBX system consists primarily of terminating the intermodular selector bank multiple, line finder multiple, and power cables to either the basic or supplementary module. These pre-formed cables are either plug-ended or factory terminated on the heavy traffic module end to facilitate connections and reduce installation time (Fig. 1).

**1.02** The terminal blocks in the basic, supplementary, and heavy traffic modules are identified in this section as Figure A, B, C, etc. to conform to the figures shown on the 701PK specification drawings. Since these terminal blocks are not identified with factory stenciling, it is recommended that the A, B, C, etc. designations be placed on the terminal blocks in accordance with local instructions.

**1.03** Check all plugs and connectors of plug or connector-ended cables for bent or damaged pins prior to connection.

**1.04** When connections are being made on initial installations, access to the various connecting blocks is easier if connections are made prior to placing module cabinets.

**2. CONNECTIONS**

**2.01** Figure 1 provides a connection schematic for placing and connecting the various cables required for connecting the heavy traffic module to the basic or supplementary modules of the 701PK PBX system.

**2.02** Figure 2 provides a connection schematic of the selector multiple when the heavy traffic module is added to the basic or supplementary modules.

**2.03** Connection Tables A through D are self-explanatory. Cables and power leads not shown in connection tables should be connected in accordance with Figure 1.

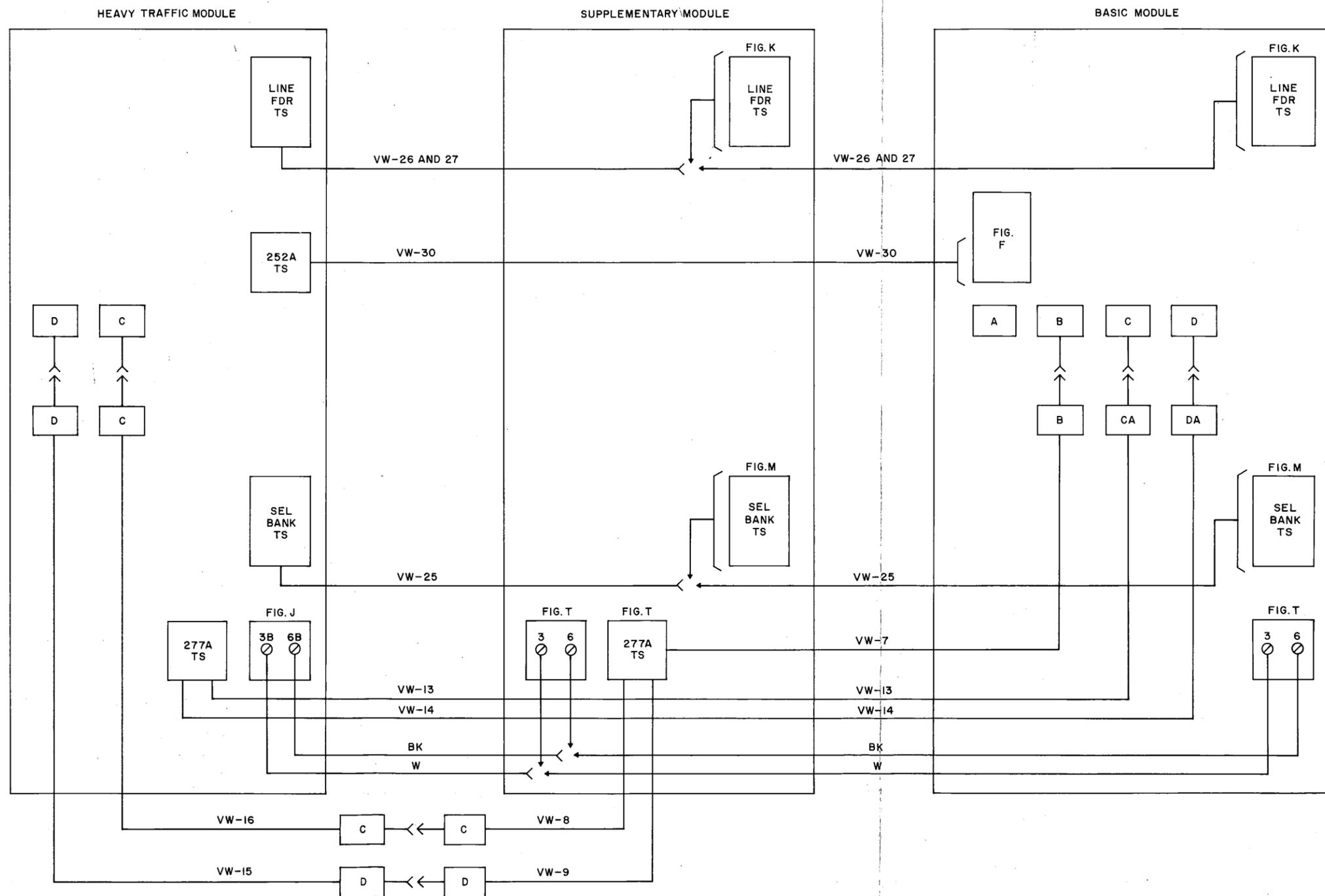


Fig. 1 — Heavy Traffic Cable Connections To Basic or Supplementary Module — Connection Schematic

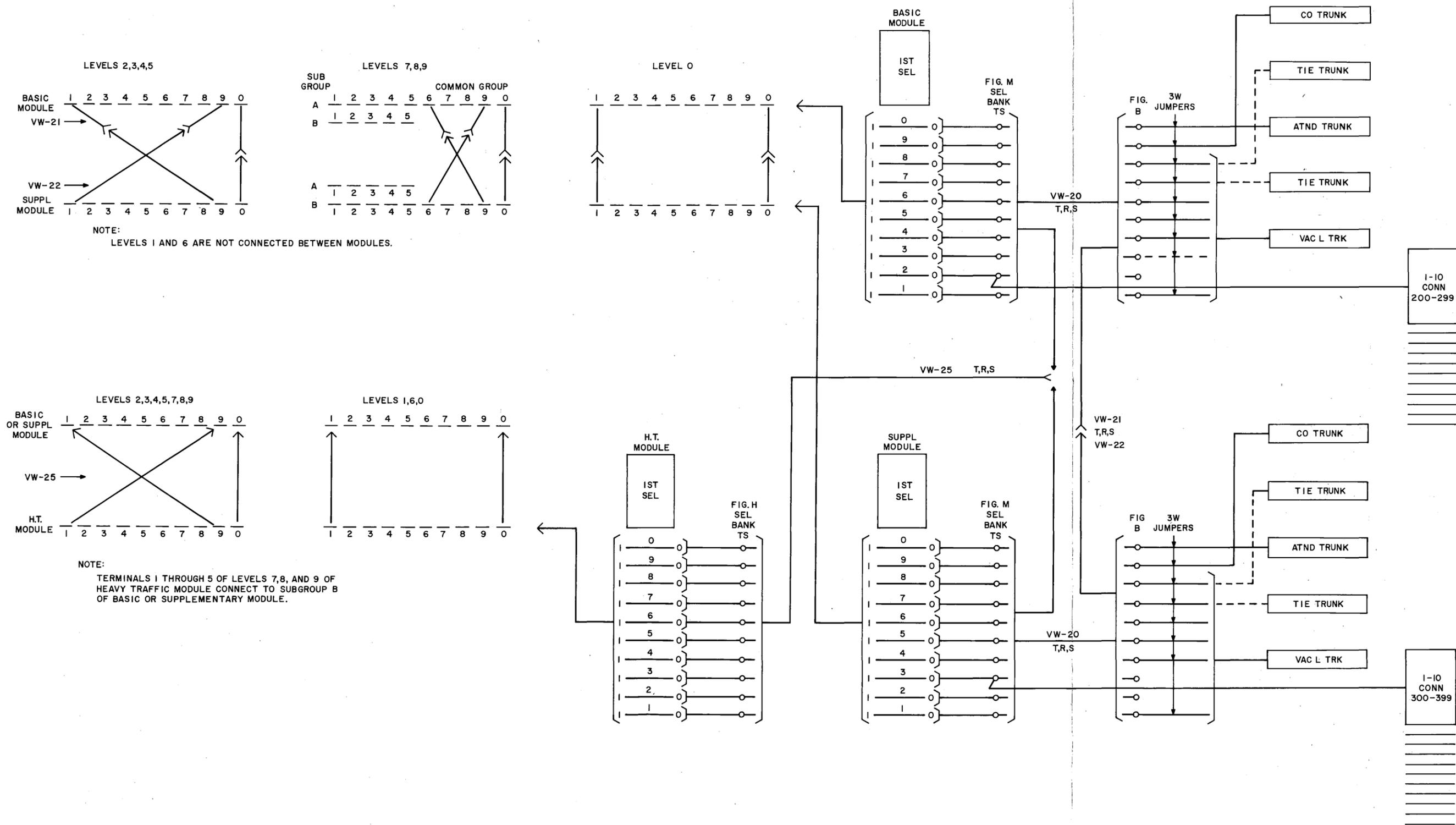


Fig. 2 — Basic, Supplementary, and Heavy Traffic Modules — Selector Multiple Schematic

TABLE A  
SELECTOR MULTIPLE CONNECTIONS—CABLE VW-25

FROM H. T. MODULE		TO BASIC OR SUPPL MODULE					FROM H. T. MODULE		TO BASIC OR SUPPL MODULE						
		COLOR CODE			FIG. M			COLOR CODE			FIG. M				
LEVEL	TERM.	BDR	T	R	S	TERM.	LEVEL	LEVEL	TERM.	BDR	T	R	S	TERM.	LEVEL
1	1	BL	BL1W	BL2W	BL3W	1	1	6	1	G	BL1BK	BL2BK	BL3BK	1	6
	2		O1W	O2W	O3W	2			2		O1BK	O2BK	O3BK	2	
	3		G1W	G2W	G3W	3			3		G1BK	G2BK	G3BK	3	
	4		BR1W	BR2W	BR3W	4			4		BR1BK	BR2BK	BR3BK	4	
	5		S1W	S2W	S3W	5			5		S1BK	S2BK	S3BK	5	
	6		BL1R	BL2R	BL3R	6			6		BL1Y	BL2Y	BL3Y	6	
	7		O1R	O2R	O3R	7			7		O1Y	O2Y	O3Y	7	
	8		G1R	G2R	G3R	8			8		G1Y	G2Y	G3Y	8	
	9		BR1R	BR2R	BR3R	9			9		BR1Y	BR2Y	BR3Y	9	
0	S1R	S2R	S3R	0	0	S1Y	S2Y	S3Y	0						
2	9	BL	BL1BK	BL2BK	BL3BK	1	2	7	BR	BL1W	BL2W	BL3W	1	7	
	8		O1BK	O2BK	O3BK	2				8	O1W	O2W	O3W		2
	7		G1BK	G2BK	G3BK	3				7	G1W	G2W	G3W		3
	6		BR1BK	BR2BK	BR3BK	4				6	BR1W	BR2W	BR3W		4
	5		S1BK	S2BK	S3BK	5				5	S1W	S2W	S3W		5
	4		BL1Y	BL2Y	BL3Y	6				4	BL1R	BL2R	BL3R		6
	3		O1Y	O2Y	O3Y	7				3	O1R	O2R	O3R		7
	2		G1Y	G2Y	G3Y	8				2	G1R	G2R	G3R		8
	1		BR1Y	BR2Y	BR3Y	9				1	BR1R	BR2R	BR3R		9
0	S1Y	S2Y	S3Y	0	0	S1R	S2R	S3R	0						
3	9	O	BL1W	BL2W	BL3W	1	3	8	BR	BL1BK	BL2BK	BL3BK	1	8	
	8		O1W	O2W	O3W	2				8	O1BK	O2BK	O3BK		2
	7		G1W	G2W	G3W	3				7	G1BK	G2BK	G3BK		3
	6		BR1W	BR2W	BR3W	4				6	BR1BK	BR2BK	BR3BK		4
	5		S1W	S2W	S3W	5				5	S1BK	S2BK	S3BK		5
	4		BL1R	BL2R	BL3R	6				4	BL1Y	BL2Y	BL3Y		6
	3		O1R	O2R	O3R	7				3	O1Y	O2Y	O3Y		7
	2		G1R	G2R	G3R	8				2	G1Y	G2Y	G3Y		8
	1		BR1R	BR2R	BR3R	9				1	BR1Y	BR2Y	BR3Y		9
0	S1R	S2R	S3R	0	0	S1Y	S2Y	S3Y	0						
4	9	O	BL1BK	BL2BK	BL3BK	1	4	9	S	BL1W	BL2W	BL3W	1	9	
	8		O1BK	O2BK	O3BK	2				8	O1W	O2W	O3W		2
	7		G1BK	G2BK	G3BK	3				7	G1W	G2W	G3W		3
	6		BR1BK	BR2BK	BR3BK	4				6	BR1W	BR2W	BR3W		4
	5		S1BK	S2BK	S3BK	5				5	S1W	S2W	S3W		5
	4		BL1Y	BL2Y	BL3Y	6				4	BL1R	BL2R	BL3R		6
	3		O1Y	O2Y	O3Y	7				3	O1R	O2R	O3R		7
	2		G1Y	G2Y	G3Y	8				2	G1R	G2R	G3R		8
	1		BR1Y	BR2Y	BR3Y	9				1	BR1R	BR2R	BR3R		9
0	S1Y	S2Y	S3Y	0	0	S1R	S2R	S3R	0						
5	9	G	BL1W	BL2W	BL3W	1	5	0	S	BL1BK	BL2BK	BL3BK	1	0	
	8		O1W	O2W	O3W	2				2	O1BK	O2BK	O3BK		2
	7		G1W	G2W	G3W	3				3	G1BK	G2BK	G3BK		3
	6		BR1W	BR2W	BR3W	4				4	BR1BK	BR2BK	BR3BK		4
	5		S1W	S2W	S3W	5				5	S1BK	S2BK	S3BK		5
	4		BL1R	BL2R	BL3R	6				6	BL1Y	BL2Y	BL3Y		6
	3		O1R	O2R	O3R	7				7	O1Y	O2Y	O3Y		7
	2		G1R	G2R	G3R	8				8	G1Y	G2Y	G3Y		8
	1		BR1R	BR2R	BR3R	9				9	BR1Y	BR2Y	BR3Y		9
0	S1R	S2R	S3R	0	0	S1Y	S2Y	S3Y	0						

TABLE B  
LINE MULTIPLE CONNECTIONS—CABLE VW-26

FROM H. T. MODULE		TO BASIC OR SUPPL MODULE								FROM H. T. MODULE		TO BASIC OR SUPPL MODULE				
		COLOR CODE				FIG. K						COLOR CODE		FIG. K		
LEVEL	TERM.	BDR	T	R	BDR	S	S1	TERM.	LEVEL	LEVEL	TERM.	BDR	T	R	TERM.	LEVEL
1	1	BL	BL1W	BL2W	BL	BL3W	BL3BK	1	1	6	6	G	BL1BK	BL2BK	1	6
	2		O1W	O2W		O3W	O3BK	2					O1BK	O2BK	2	
	3		G1W	G2W		G3W	G3BK	3					G1BK	G2BK	3	
	4		BR1W	BR2W		BR3W	BR3BK	4					BR1BK	BR2BK	4	
	5		S1W	S2W		S3W	S3BK	5					S1BK	S2BK	5	
	6		BL1R	BL2R		BL3R	BL3Y	6					BL1Y	BL2Y	6	
	7		O1R	O2R		O3R	O3Y	7					O1Y	O2Y	7	
	8		G1R	G2R		G3R	G3Y	8					G1Y	G2Y	8	
	9		BR1R	BR2R		BR3R	BR3Y	9					BR1Y	BR2Y	9	
	0		S1R	S2R		S3R	S3Y	0					S1Y	S2Y	0	
2	1	BL	BL1BK	BL2BK	O	BL3W	BL3BK	1	2	7	7	BR	BL1W	BL2W	1	7
	2		O1BK	O2BK		O3W	O3BK	2					O1W	O2W	2	
	3		G1BK	G2BK		G3W	G3BK	3					G1W	G2W	3	
	4		BR1BK	BR2BK		BR3W	BR3BK	4					BR1W	BR2W	4	
	5		S1BK	S2BK		S3W	S3BK	5					S1W	S2W	5	
	6		BL1Y	BL2Y		BL3R	BL3Y	6					BL1R	BL2R	6	
	7		O1Y	O2Y		O3R	O3Y	7					O1R	O2R	7	
	8		G1Y	G2Y		G3R	G3Y	8					G1R	G2R	8	
	9		BR1Y	BR2Y		BR3R	BR3Y	9					BR1R	BR2R	9	
	0		S1Y	S2Y		S3R	S3Y	0					S1R	S2R	0	
3	1	O	BL1W	BL2W	G	BL3W	BL3BK	1	3	8	8	BR	BL1BK	BL2BK	1	8
	2		O1W	O2W		O3W	O3BK	2					O1BK	O2BK	2	
	3		G1W	G2W		G3W	G3BK	3					G1BK	G2BK	3	
	4		BR1W	BR2W		BR3W	BR3BK	4					BR1BK	BR2BK	4	
	5		S1W	S2W		S3W	S3BK	5					S1BK	S2BK	5	
	6		BL1R	BL2R		BL3R	BL3Y	6					BL1Y	BL2Y	6	
	7		O1R	O2R		O3R	O3Y	7					O1Y	O2Y	7	
	8		G1R	G2R		G3R	G3Y	8					G1Y	G2Y	8	
	9		BR1R	BR2R		BR3R	BR3Y	9					BR1Y	BR2Y	9	
	0		S1R	S2R		S3R	S3Y	0					S1Y	S2Y	0	
4	1	O	BL1BK	BL2BK	BR	BL3W	BL3BK	1	4	9	9	S	BL1W	BL2W	1	9
	2		O1BK	O2BK		O3W	O3BK	2					O1W	O2W	2	
	3		G1BK	G2BK		G3W	G3BK	3					G1W	G2W	3	
	4		BR1BK	BR2BK		BR3W	BR3BK	4					BR1W	BR2W	4	
	5		S1BK	S2BK		S3W	S3BK	5					S1W	S2W	5	
	6		BL1Y	BL2Y		BL3R	BL3Y	6					BL1R	BL2R	6	
	7		O1Y	O2Y		O3R	O3Y	7					O1R	O2R	7	
	8		G1Y	G2Y		G3R	G3Y	8					G1R	G2R	8	
	9		BR1Y	BR2Y		BR3R	BR3Y	9					BR1R	BR2R	9	
	0		S1Y	S2Y		S3R	S3Y	0					S1R	S2R	0	
5	1	G	BL1W	BL2W	S	BL3W	BL3BK	1	5	0	0	S	BL1BK	BL2BK	1	0
	2		O1W	O2W		O3W	O3BK	2					O1BK	O2BK	2	
	3		G1W	G2W		G3W	G3BK	3					G1BK	G2BK	3	
	4		BR1W	BR2W		BR3W	BR3BK	4					BR1BK	BR2BK	4	
	5		S1W	S2W		S3W	S3BK	5					S1BK	S2BK	5	
	6		BL1R	BL2R		BL3R	BL3Y	6					BL1Y	BL2Y	6	
	7		O1R	O2R		O3R	O3Y	7					O1Y	O2Y	7	
	8		G1R	G2R		G3R	G3Y	8					G1Y	G2Y	8	
	9		BR1R	BR2R		BR3R	BR3Y	9					BR1Y	BR2Y	9	
	0		S1R	S2R		S3R	S3Y	0					S1Y	S2Y	0	

TABLE C  
LINE MULTIPLE CONNECTIONS—CABLE VW-27

FROM H. T. MODULE		TO BASIC OR SUPPL MODULE				FROM H. T. MODULE		TO BASIC OR SUPPL MODULE								
		COLOR CODE		FIG. K				COLOR CODE				FIG. K				
LEVEL	TERM.	BDR	T1	R1	TERM.	LEVEL	LEVEL	TERM.	BDR	T1	R1	BDR	S	S1	TERM.	LEVEL
<u>1</u>	1	BL	BL1W	BL2W	1	<u>1</u>	<u>6</u>	G	BL	BL1BK	BL2BK	BL	BL3W	BL3BK	1	<u>6</u>
	2		O1W	O2W	2					O1BK	O2BK		O3W	O3BK	2	
	3		G1W	G2W	3					G1BK	G2BK		G3W	G3BK	3	
	4		BR1W	BR2W	4					BR1BK	BR2BK		BR3W	BR3BK	4	
	5		S1W	S2W	5					S1BK	S2BK		S3W	S3BK	5	
	6		BL1R	BL2R	6					BL1Y	BL2Y		BL3R	BL3Y	6	
	7		O1R	O2R	7					O1Y	O2Y		O3R	O3Y	7	
	8		G1R	G2R	8					G1Y	G2Y		G3R	G3Y	8	
	9		BR1R	BR2R	9					BR1Y	BR2Y		BR3R	BR3Y	9	
	0		S1R	S2R	0					S1Y	S2Y		S3R	S3Y	0	
<u>2</u>	1	BL	BL1BK	BL2BK	1	<u>2</u>	<u>7</u>	BR	O	BL1W	BL2W	O	BL3W	BL3BK	1	<u>7</u>
	2		O1BK	O2BK	2					O1W	O2W		O3W	O3BK	2	
	3		G1BK	G2BK	3					G1W	G2W		G3W	G3BK	3	
	4		BR1BK	BR2BK	4					BR1W	BR2W		BR3W	BR3BK	4	
	5		S1BK	S2BK	5					S1W	S2W		S3W	S3BK	5	
	6		BL1Y	BL2Y	6					BL1R	BL2R		BL3R	BL3Y	6	
	7		O1Y	O2Y	7					O1R	O2R		O3R	O3Y	7	
	8		G1Y	G2Y	8					G1R	G2R		G3R	G3Y	8	
	9		BR1Y	BR2Y	9					BR1R	BR2R		BR3R	BR3Y	9	
	0		S1Y	S2Y	0					S1R	S2R		S3R	S3Y	0	
<u>3</u>	1	O	BL1W	BL2W	1	<u>3</u>	<u>8</u>	BR	G	BL1BK	BL2BK	G	BL3W	BL3BK	1	<u>8</u>
	2		O1W	O2W	2					O1BK	O2BK		O3W	O3BK	2	
	3		G1W	G2W	3					G1BK	G2BK		G3W	G3BK	3	
	4		BR1W	BR2W	4					BR1BK	BR2BK		BR3W	BR3BK	4	
	5		S1W	S2W	5					S1BK	S2BK		S3W	S3BK	5	
	6		BL1R	BL2R	6					BL1Y	BL2Y		BL3R	BL3Y	6	
	7		O1R	O2R	7					O1Y	O2Y		O3R	O3Y	7	
	8		G1R	G2R	8					G1Y	G2Y		G3R	G3Y	8	
	9		BR1R	BR2R	9					BR1Y	BR2Y		BR3R	BR3Y	9	
	0		S1R	S2R	0					S1Y	S2Y		S3R	S3Y	0	
<u>4</u>	1	O	BL1BK	BL2BK	1	<u>4</u>	<u>9</u>	S	BR	BL1W	BL2W	BR	BL3W	BL3BK	1	<u>9</u>
	2		O1BK	O2BK	2					O1W	O2W		O3W	O3BK	2	
	3		G1BK	G2BK	3					G1W	G2W		G3W	G3BK	3	
	4		BR1BK	BR2BK	4					BR1W	BR2W		BR3W	BR3BK	4	
	5		S1BK	S2BK	5					S1W	S2W		S3W	S3BK	5	
	6		BL1Y	BL2Y	6					BL1R	BL2R		BL3R	BL3Y	6	
	7		O1Y	O2Y	7					O1R	O2R		O3R	O3Y	7	
	8		G1Y	G2Y	8					G1R	G2R		G3R	G3Y	8	
	9		BR1Y	BR2Y	9					BR1R	BR2R		BR3R	BR3Y	9	
	0		S1Y	S2Y	0					S1R	S2R		S3R	S3Y	0	
<u>5</u>	1	G	BL1W	BL2W	1	<u>5</u>	<u>0</u>	S	S	BL1BK	BL2BK	S	BL3W	BL3BK	1	<u>0</u>
	2		O1W	O2W	2					O1BK	O2BK		O3W	O3BK	2	
	3		G1W	G2W	3					G1BK	G2BK		G3W	G3BK	3	
	4		BR1W	BR2W	4					BR1BK	BR2BK		BR3W	BR3BK	4	
	5		S1W	S2W	5					S1BK	S2BK		S3W	S3BK	5	
	6		BL1R	BL2R	6					BL1Y	BL2Y		BL3R	BL3Y	6	
	7		O1R	O2R	7					O1Y	O2Y		O3R	O3Y	7	
	8		G1R	G2R	8					G1Y	G2Y		G3R	G3Y	8	
	9		BR1R	BR2R	9					BR1Y	BR2Y		BR3R	BR3Y	9	
	0		S1R	S2R	0					S1Y	S2Y		S3R	S3Y	0	

**TABLE D**  
**MISCELLANEOUS ALARM LEADS — CABLE VW-30**

FROM H. T. MODULE	TO BASIC OR SUPPL MODULE FIG. F	
LEAD	COLOR CODE	LEAD
ST	BL1W	ST
PU	BL2W	PU
TO	O1W	TO
S	O2W	S
G	G1W	G
RT	G2W	RT
PSA	BR1W	PSA