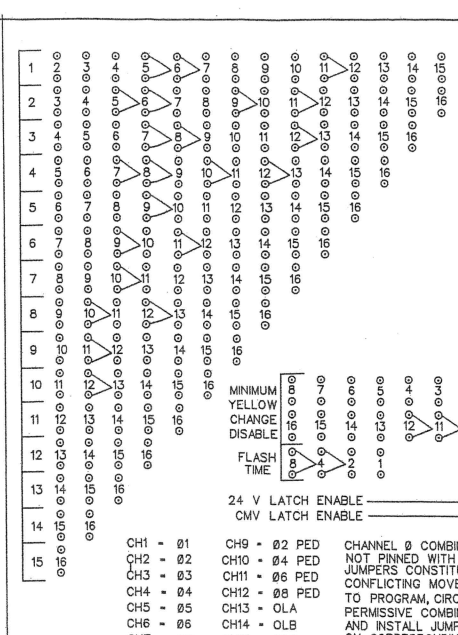
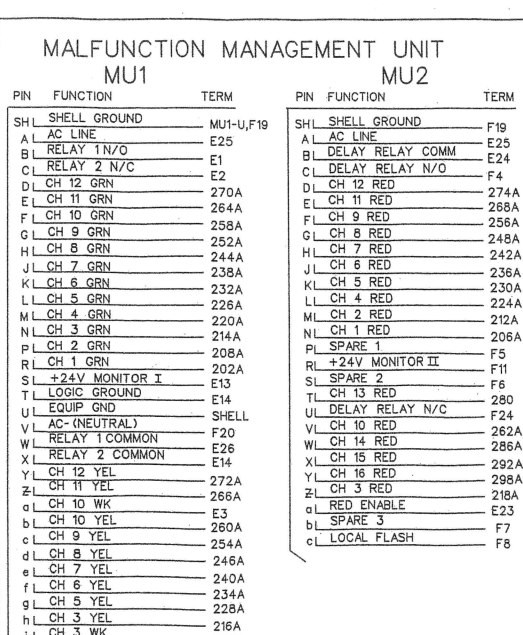
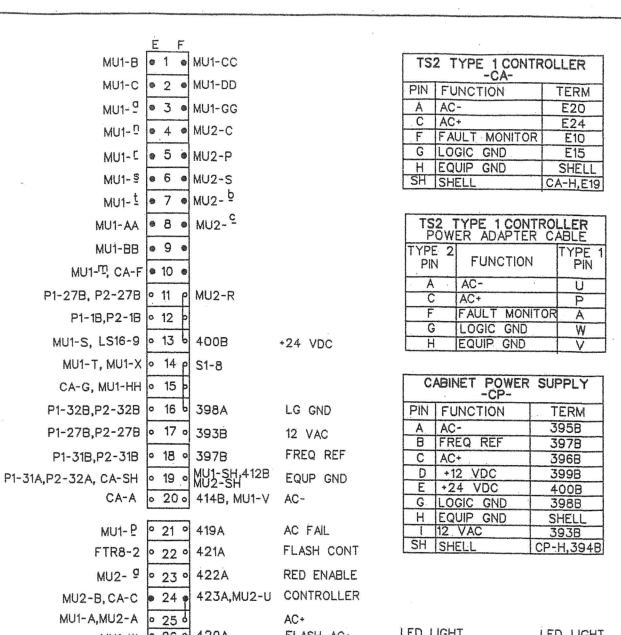
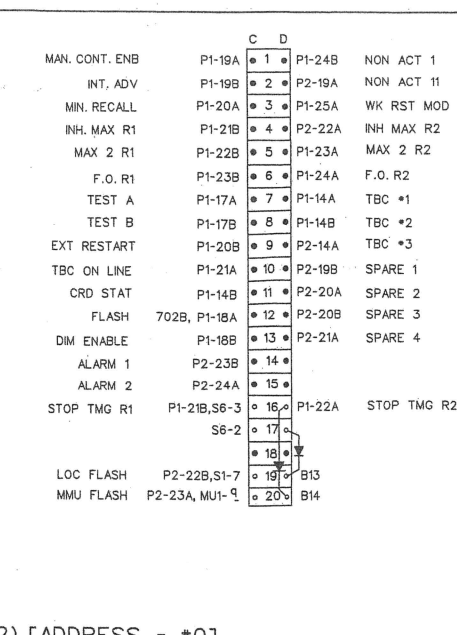
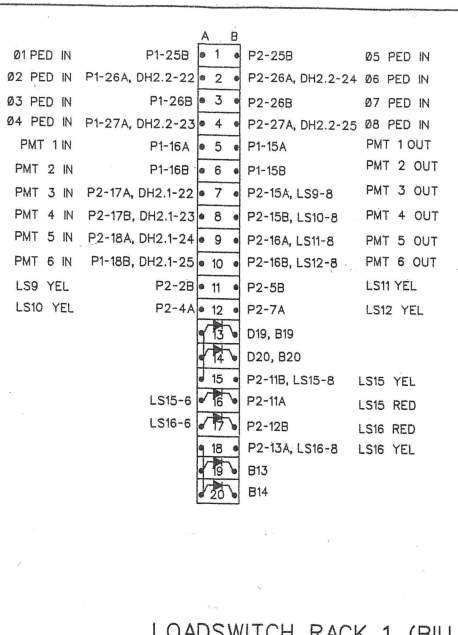
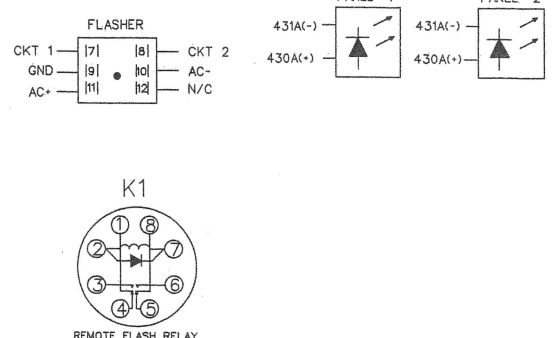
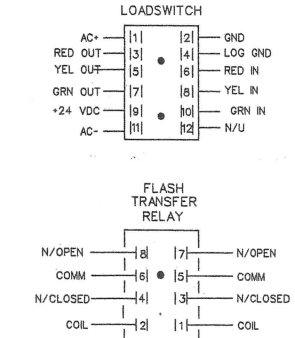
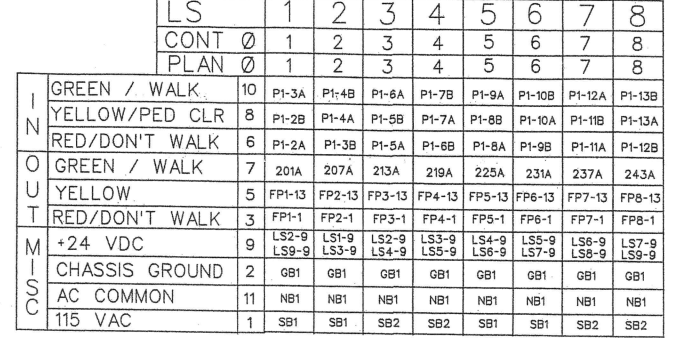


BIU 1 (P1) [ADDRESS=0]			
SIDE A		SIDE B	
PIN	FUNCTION	TERM	FUNCTION
1	+24 VDC	*	+24 VDC
2	LS1 RED	LS1-B	LS1-YEL
3	LS1 GRN	LS1-6	LS2 RED
4	LS2 YEL	LS2-8	LS2 GRN
5	LS3 RED	LS3-6	LS3 YEL
6	LS3 GRN	LS3-10	LS4 RED
7	LS4 YEL	LS4-8	LS4 GRN
8	LS5 RED	LS5-6	LS5 YEL
9	LS5 GRN	LS5-10	LS6 RED
10	LS6 YEL	LS6-8	LS6 GRN
11	LS7 RED	LS7-6	LS7 YEL
12	LS7 GRN	LS7-10	LS8 RED
13	LS8 YEL	LS8-8	LS8 GRN
14	TBC AUX 1	D7	TBC AUX 2
15	PREEMPT 1 OUT	B5	PREEMPT 2 OUT
16	PREEMPT 1 CALL	A5	PREEMPT 2 IN
17	TEST A	C7	TEST B
18	FLASH IN	C12	DIM ENABLE
19	MAN CONT	C1	INT ADV
20	EXT MIN RECALL	C3	EXT RESTART
21	TBC ON LINE	C10	STOP TIME R1
22	STOP TIME R2	D16	MAX IR1
23	MAX IR2	D5	FORCE OFF R1
24	FORCE OFF R2	D6	CALL NON-ACT1
25	WALK REST MOD	D3	Ø1 PED ISO
26	Ø2 PED ISO	A2	Ø3 PED ISO
27	Ø4 PED ISO	A4	PED ISO COMM
28	ADD SELECT 0	-----	ADD SELECT 1
29	ADD SELECT 2	-----	ADD SELECT 3
30	RESERVED	-----	RESERVED
31	EQUIP GND	E19	LINE FREQ REF
32	LOGIC GND	E16	LOGIC GND

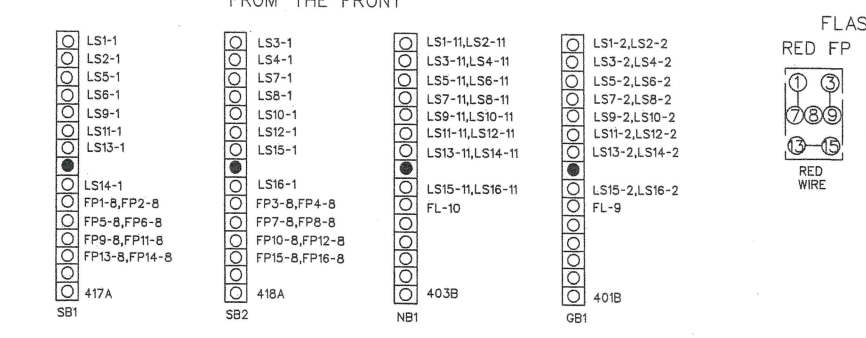
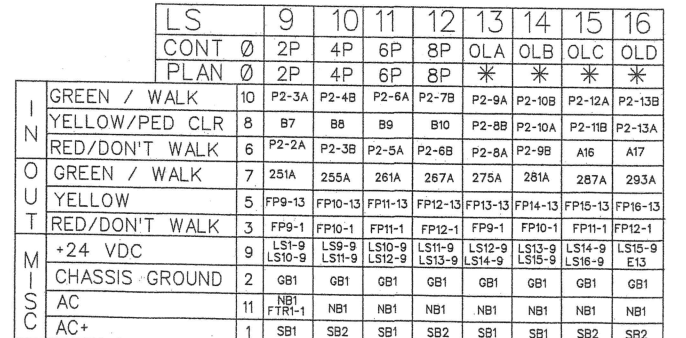
BIU 2 (P2) [ADDRESS=1]			
SIDE A		SIDE B	
PIN	FUNCTION	TERM	FUNCTION
1	+24 VDC	*	+24 VDC
2	LS9 RED	LS9-B	LS9 YEL
3	LS9 GRN	LS9-6	LS10 RED
4	LS10 YEL	A12	LS10 GRN
5	LS11 RED	LS11-6	LS11 YEL
6	LS11 GRN	LS11-10	LS12 RED
7	LS12 YEL	B12	LS12 GRN
8	LS13 RED	LS13-6	LS13 YEL
9	LS13 GRN	LS13-10	LS14 RED
10	LS14 YEL	LS14-8	LS14 GRN
11	LS15 RED	B16	LS15 YEL
12	LS15 GRN	LS15-10	LS16 RED
13	LS16 YEL	B18	LS16 GRN
14	TBC AUX 3 OUT	D9	COORD STATUS
15	PREEMPT 3 OUT	B7	PREEMPT 4 OUT
16	PREEMPT 5 OUT	B9	PREEMPT 6 OUT
17	PREEMPT 3 CALL	A7	PREEMPT 4 CALL
18	PREEMPT 5 CALL	A9	PREEMPT 6 CALL
19	CALL NON-ACT 2	D2	SPARE 1
20	SPARE 2	D11	SPARE 3
21	SPARE 4	D13	INHIBIT MAX 1
22	INHIBIT MAX 2	D4	LOCAL FLASH
23	MMU FLASH	C20	ALARM 1
24	ALARM 2	C15	RESERVED
25	RESERVED	-----	Ø5 PED ISO
26	Ø6 PED ISO	B2	Ø7 PED ISO
27	Ø8 PED ISO	B4	PED ISO COMM
28	ADD SELECT 0	P2-32B	ADD SELECT 1
29	ADD SELECT 2	-----	ADD SELECT 3
30	RESERVED	-----	RESERVED
31	EQUIP GND	E19	LINE FREQ REF
32	LOGIC GND	E16	LOGIC GND



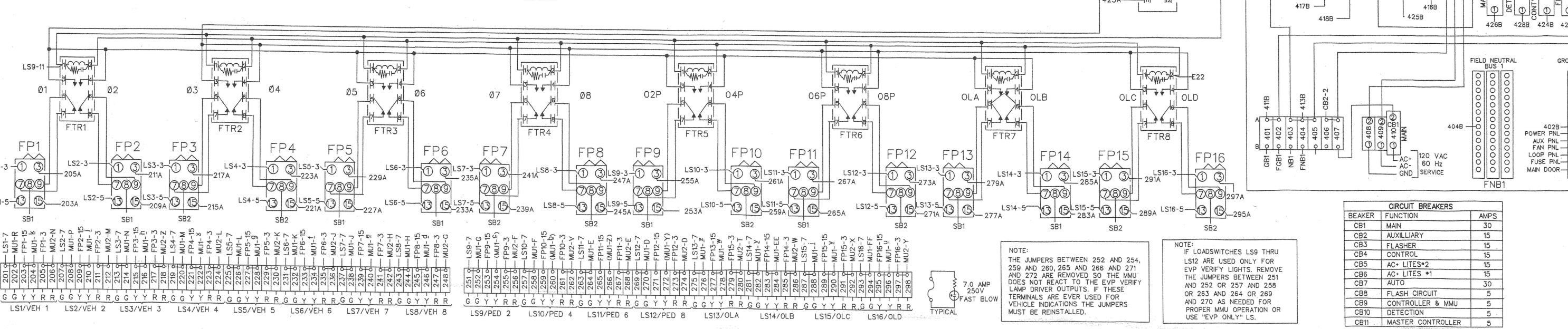
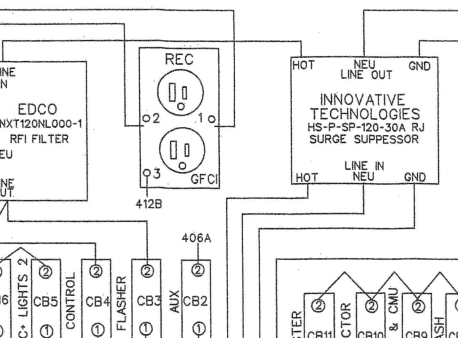
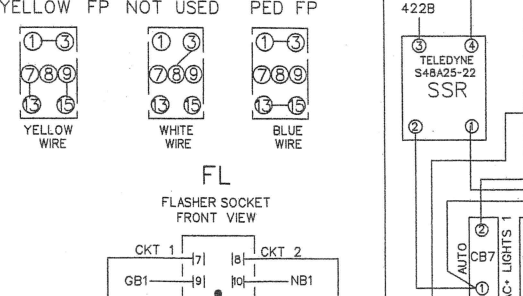
LOADSWITCH RACK 1 (BIU 2) [ADDRESS = *0]



LOADSWITCH RACK 1 (BIU 1) [ADDRESS = *1]



FLASHING OUTPUT CONFIGURATION



BEAKER	FUNCTION	AMPS
CB1	MAIN	30
CB2	AUXILIARY	15
CB3	FLASHER	15
CB4	CONTROL	15
CB5	AC LITES*2	15
CB6	AC LITES*1	15
CB7	AUTO	30
CB8	FLASH CIRCUIT	5
CB9	CONTROLLER & MMU	5
CB10	DETECTION	5
CB11	MASTER CONTROLLER	5

NOTE: THE JUMPERS BETWEEN 252 AND 254, 259 AND 260, 265 AND 266 AND 271 AND 272 ARE REMOVED SO THE MMU DOES NOT REACT TO THE EVP VERIFY LAMP DRIVER OUTPUTS. IF THESE TERMINALS ARE EVER USED FOR VEHICLE INDICATIONS THE JUMPERS MUST BE REINSTALLED.

NOTE: IF LOADSWITCHES LS9 THRU LS12 ARE USED ONLY FOR EVP VERIFY LIGHTS. REMOVE THE JUMPERS BETWEEN 251 AND 252 OR 257 AND 258 OR 263 AND 264 OR 269 AND 270 AS NEEDED FOR PROPER MMU OPERATION OR USE "EVP ONLY" LS.

PORT 1 INTERFACE

CONTROLLER COMM PORT	CONTR CP1	MMU CP2	TF*1 CP3	TF*3 CP4	DET RK1 CP5	DET RK2 CP6	SPARE CP7	SPARE CP8	EXT EQUIP COMM PORT
PIN FUNCTION									PIN FUNCTION
1 TX DATA									1 RX DATA
2 LGC GND									2 LGC GND
3 TX CLOCK									3 RX CLOCK
4 LGC GND									4 LGC GND
5 RX DATA									5 TX DATA
6 LGC GND									6 LGC GND
7 RX CLOCK									7 TX CLOCK
8 LGC GND									8 LGC GND
9 TX DATA									9 RX DATA
10 N/U									10 N/U
11 TX CLOCK									11 RX CLOCK
12 EQUIP GND									12 EQUIP GND
13 RX DATA									13 TX DATA
14 RESERVED									14 RESERVED
15 TX CLOCK									15 TX CLOCK
SHIELDABLE SHIELD									SHIELDABLE SHIELD

CONTROLLER COMM PORT 3 -CMP-

PIN	FUNCT	TERM
1	TRANSMIT 1	PC-2(R)
2	TRANSMIT 2	PC-4(G)
3	RECEIVE 1	PC-6(B)
5	RECEIVE 2	PC-8(W)

LEFT SIDE DETECTOR RACK

SA1 LEFT (SLOT ADDRESS 0)	SA1 RIGHT (SLOT ADDRESS 1)	SA2 LEFT (SLOT ADDRESS 2)	SA2 RIGHT (SLOT ADDRESS 3)	SA3 LEFT (SLOT ADDRESS 4)	SA3 RIGHT (SLOT ADDRESS 5)	SA4 LEFT (SLOT ADDRESS 6)	SA4 RIGHT (SLOT ADDRESS 7)	SA5 LEFT (EVP CHANNELS C & D)	SA5 RIGHT (EVP CHANNELS A & B)
TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	PHASES	POLE
3 D1-3	1 D1-1	7 D2-1	5 D5-1	11 D6-3	9 D6-1	15 D7-1	13 D3-1	CHC 3/8	1
4 D1-4	2 D1-2	8 D2-2	6 D5-2	12 D6-2	10 D6-2	16 D7-2	14 D3-2	CHD 4/7	4
								CHA 1/5	6
								CHB 2/5	2

DETECTOR RACK HARNESS DH1.1

FEMALE DB25 CONNECTOR				MALE DB25 CONNECTOR			
TERM	FUNCT	PIN	TERM	TERM	FUNCT	PIN	TERM
303B	LOOP 1	1 14	LOOP 7 318B	333B	LOOP 13	1 14	CH C IN 347B
304B	LOOP 1	2 15	LOOP 7 319B	334B	LOOP 13	2 15	+24 VDC 348B
305B	LOOP 2	3 16	LOOP 8 320B	335B	LOOP 14	3 16	CH D IN 350B
306B	LOOP 2	4 17	LOOP 8 321B	336B	LOOP 14	4 17	DC GND 352B
307B	LOOP 3	5 18	LOOP 9 322B	337B	LOOP 15	5 18	---
308B	LOOP 3	6 19	LOOP 9 323B	338B	LOOP 15	6 19	---
309B	LOOP 4	7 20	LOOP 10 324B	339B	LOOP 16	7 20	---
310B	LOOP 4	8 21	LOOP 10 325B	340B	LOOP 16	8 21	---
311B	LOOP 5	9 22	LOOP 11 326B	341B	LOOP 17	9 22	CH A OUT A7
312B	LOOP 5	10 23	LOOP 11 327B	342B	LOOP 17	10 23	CH B OUT A8
313B	LOOP 6	11 24	LOOP 12 328B	343B	LOOP 18	11 24	CH C OUT A9
314B	LOOP 6	12 25	LOOP 12 329B	344B	LOOP 18	12 25	CH D OUT A10
315B	LOOP 7	13 26	LOOP 13 330B	345B	LOOP 19	13 26	---
316B	LOOP 7	14 27	LOOP 13 331B	346B	LOOP 19	14 27	---
317B	LOOP 8	15 28	LOOP 14 332B	347B	LOOP 20	15 28	---
318B	LOOP 8	16 29	LOOP 14 333B	348B	LOOP 20	16 29	---
319B	LOOP 9	17 30	LOOP 15 334B	349B	LOOP 21	17 30	---
320B	LOOP 9	18 31	LOOP 15 335B	350B	LOOP 21	18 31	---
321B	LOOP 10	19 32	LOOP 16 336B	351B	LOOP 22	19 32	---
322B	LOOP 10	20 33	LOOP 16 337B	352B	LOOP 22	20 33	---
323B	LOOP 11	21 34	LOOP 17 338B	353B	LOOP 23	21 34	---
324B	LOOP 11	22 35	LOOP 17 339B	354B	LOOP 23	22 35	---
325B	LOOP 12	23 36	LOOP 18 340B	355B	LOOP 24	23 36	---
326B	LOOP 12	24 37	LOOP 18 341B	356B	LOOP 24	24 37	---
327B	LOOP 13	25 38	LOOP 19 342B	357B	LOOP 25	25 38	---
328B	LOOP 13	26 39	LOOP 19 343B	358B	LOOP 25	26 39	---
329B	LOOP 14	27 40	LOOP 20 344B	359B	LOOP 26	27 40	---
330B	LOOP 14	28 41	LOOP 20 345B	360B	LOOP 26	28 41	---
331B	LOOP 15	29 42	LOOP 21 346B	361B	LOOP 27	29 42	---
332B	LOOP 15	30 43	LOOP 21 347B	362B	LOOP 27	30 43	---
333B	LOOP 16	31 44	LOOP 22 348B	363B	LOOP 28	31 44	---
334B	LOOP 16	32 45	LOOP 22 349B	364B	LOOP 28	32 45	---
335B	LOOP 17	33 46	LOOP 23 350B	365B	LOOP 29	33 46	---
336B	LOOP 17	34 47	LOOP 23 351B	366B	LOOP 29	34 47	---
337B	LOOP 18	35 48	LOOP 24 352B	367B	LOOP 30	35 48	---
338B	LOOP 18	36 49	LOOP 24 353B	368B	LOOP 30	36 49	---
339B	LOOP 19	37 50	LOOP 25 354B	369B	LOOP 31	37 50	---
340B	LOOP 19	38 51	LOOP 25 355B	370B	LOOP 31	38 51	---
341B	LOOP 20	39 52	LOOP 26 356B	371B	LOOP 32	39 52	---
342B	LOOP 20	40 53	LOOP 26 357B	372B	LOOP 32	40 53	---
343B	LOOP 21	41 54	LOOP 27 358B	373B	LOOP 33	41 54	---
344B	LOOP 21	42 55	LOOP 27 359B	374B	LOOP 33	42 55	---
345B	LOOP 22	43 56	LOOP 28 360B	375B	LOOP 34	43 56	---
346B	LOOP 22	44 57	LOOP 28 361B	376B	LOOP 34	44 57	---
347B	LOOP 23	45 58	LOOP 29 362B	377B	LOOP 35	45 58	---
348B	LOOP 23	46 59	LOOP 29 363B	378B	LOOP 35	46 59	---
349B	LOOP 24	47 60	LOOP 30 364B	379B	LOOP 36	47 60	---
350B	LOOP 24	48 61	LOOP 30 365B	380B	LOOP 36	48 61	---
351B	LOOP 25	49 62	LOOP 31 366B	381B	LOOP 37	49 62	---
352B	LOOP 25	50 63	LOOP 31 367B	382B	LOOP 37	50 63	---
353B	LOOP 26	51 64	LOOP 32 368B	383B	LOOP 38	51 64	---
354B	LOOP 26	52 65	LOOP 32 369B	384B	LOOP 38	52 65	---
355B	LOOP 27	53 66	LOOP 33 370B	385B	LOOP 39	53 66	---
356B	LOOP 27	54 67	LOOP 33 371B	386B	LOOP 39	54 67	---
357B	LOOP 28	55 68	LOOP 34 372B	387B	LOOP 40	55 68	---
358B	LOOP 28	56 69	LOOP 34 373B	388B	LOOP 40	56 69	---
359B	LOOP 29	57 70	LOOP 35 374B	389B	LOOP 41	57 70	---
360B	LOOP 29	58 71	LOOP 35 375B	390B	LOOP 41	58 71	---
361B	LOOP 30	59 72	LOOP 36 376B	391B	LOOP 42	59 72	---
362B	LOOP 30	60 73	LOOP 36 377B	392B	LOOP 42	60 73	---
363B	LOOP 31	61 74	LOOP 37 378B	393B	LOOP 43	61 74	---
364B	LOOP 31	62 75	LOOP 37 379B	394B	LOOP 43	62 75	---
365B	LOOP 32	63 76	LOOP 38 380B	395B	LOOP 44	63 76	---
366B	LOOP 32	64 77	LOOP 38 381B	396B	LOOP 44	64 77	---
367B	LOOP 33	65 78	LOOP 39 382B	397B	LOOP 45	65 78	---
368B	LOOP 33	66 79	LOOP 39 383B	398B	LOOP 45	66 79	---
369B	LOOP 34	67 80	LOOP 40 384B	399B	LOOP 46	67 80	---
370B	LOOP 34	68 81	LOOP 40 385B	400B	LOOP 46	68 81	---
371B	LOOP 35	69 82	LOOP 41 386B	401B	LOOP 47	69 82	---
372B	LOOP 35	70 83	LOOP 41 387B	402B	LOOP 47	70 83	---
373B	LOOP 36	71 84	LOOP 42 388B	403B	LOOP 48	71 84	---
374B	LOOP 36	72 85	LOOP 42 389B	404B	LOOP 48	72 85	---
375B	LOOP 37	73 86	LOOP 43 390B	405B	LOOP 49	73 86	---
376B	LOOP 37	74 87	LOOP 43 391B	406B	LOOP 49	74 87	---
377B	LOOP 38	75 88	LOOP 44 392B	407B	LOOP 50	75 88	---
378B	LOOP 38	76 89	LOOP 44 393B	408B	LOOP 50	76 89	---
379B	LOOP 39	77 90	LOOP 45 394B	409B	LOOP 51	77 90	---
380B	LOOP 39	78 91	LOOP 45 395B	410B	LOOP 51	78 91	---
381B	LOOP 40	79 92	LOOP 46 396B	411B	LOOP 52	79 92	---
382B	LOOP 40	80 93	LOOP 46 397B	412B	LOOP 52	80 93	---
383B	LOOP 41	81 94	LOOP 47 398B	413B	LOOP 53	81 94	---
384B	LOOP 41	82 95	LOOP 47 399B	414B	LOOP 53	82 95	---
385B	LOOP 42	83 96	LOOP 48 400B	415B	LOOP 54	83 96	---
386B	LOOP 42	84 97	LOOP 48 401B	416B	LOOP 54	84 97	---
387B	LOOP 43	85 98	LOOP 49 402B	417B	LOOP 55	85 98	---
388B	LOOP 43	86 99	LOOP 49 403B	418B	LOOP 55	86 99	---
389B	LOOP 44	87 100	LOOP 50 404B	419B	LOOP 56	87 100	---
390B	LOOP 44	88 101	LOOP 50 405B	420B	LOOP 56	88 101	---
391B	LOOP 45	89 102	LOOP 51 406B	421B	LOOP 57	89 102	---
392B	LOOP 45	90 103	LOOP 51 407B	422B	LOOP 57	90 103	---
393B	LOOP 46	91 104	LOOP 52 408B	423B	LOOP 58	91 104	---
394B	LOOP 46	92 105	LOOP 52 409B	424B	LOOP 58	92 105	---
395B	LOOP 47	93 106	LOOP 53 410B	425B	LOOP 59	93 106	---
396B	LOOP 47	94 107	LOOP 53 411B	426B	LOOP 59	94 107	---
397B	LOOP 48	95 108	LOOP 54 412B	427B	LOOP 60	95 108	---
398B	LOOP 48	96 109	LOOP 54 413B	428B	LOOP 60	96 109	---
399B	LOOP 49	97 110	LOOP 55 414B	429B	LOOP 61	97 110	---
400B	LOOP 49	98 111	LOOP 55 415B	430B	LOOP 61	98 111	---
401B	LOOP 50	99 112	LOOP 56 416B	431B	LOOP 62	99 112	---
402B	LOOP 50	100 113	LOOP 56 417B	432B	LOOP 62	100 113	---

CROSS REFERENCE SAMPLE:

DH1	2	9
"D" CONNECTOR	RACK	PIN

DETECTOR SLOT ADDRESS BIT CHART

SLOT	ADDRESS	BIT	
		0	1
C1	0		
C2	1	X	
C3	2		X
C4	3	X	X
C5	4		X
C6	5	X	X
C7	6		X
C8	7	X	X

RIGHT SIDE DETECTOR RACK

SA6 LEFT (SLOT ADDRESS 0)	SA6 RIGHT (SLOT ADDRESS 1)	SA7 LEFT (SLOT ADDRESS 2)	SA7 RIGHT (SLOT ADDRESS 3)	SA8 LEFT (SLOT ADDRESS 4)	SA8 RIGHT (SLOT ADDRESS 5)	SA9 LEFT (SLOT ADDRESS 6)	SA9 RIGHT (SLOT ADDRESS 7)	SA10 LEFT	SA10 RIGHT
TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	TS2 INTERSECTION LOOP	PPB ISOLATION	PPB ISOLATION
19 D4-1	17 D7-3	23 D8-2	21 D4-3	27 D6-3	25 D6-1	31 D7-1	29 D3-1	CH1 PH 6	CH1 PH 2
20 D4-2	18 D7-4	24 D8-3	22 D8-1	28 D6-2	26 D6-2	32 D7-2	30 D3-2	CH2 PH 8	CH2 PH 4

LOOP PANEL TO DETECTOR RACK HARNESS DH1.2

FEMALE DB25 CONNECTOR				MALE DB25 CONNECTOR			
TERM	FUNCT	PIN	TERM	TERM	FUNCT	PIN	TERM
353B	LOOP 17	1 14	LOOP 23 358B	383B	LOOP 29	1 14	08 PPB 357B
354B	LOOP 17	2 15	LOOP 23 359B	384B	LOOP 29	2 15	08PPB RET PBR8B
355B	LOOP 18	3 16	LOOP 24 360B	385B	LOOP 30	3 16	08 PPB 352B
356B	LOOP 18	4 17	LOOP 24 361B	386B	LOOP 30	4 17	08PPB RET PBR8B
357B	LOOP 19	5 18	LOOP 25 362B	387B	LOOP 31	5 18	---
358B	LOOP 19	6 19	LOOP 25 363B	388B	LOOP 31	6 19	---
359B	LOOP 20	7 20	LOOP 26 364B	389B	LOOP 32	7 20	---
360B	LOOP 20	8 21	LOOP 26 365B	390B	LOOP 32	8 21	---
361B	LOOP 21	9 22	LOOP 27 366B	391B	LOOP 33	9 22	02PPB OUT A2
362B	LOOP 21	10 23	LOOP 27 367B	392B	LOOP 33	10 23</	