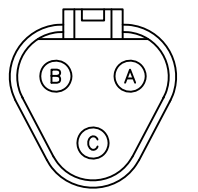
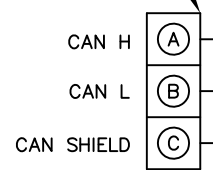


CAN 1
CONNECTOR 00009581
DEUTSCH DT06-3S



WIRE INSERTION VIEW
WEDGE LOCK 00008598
WEDGE LOCK W3S

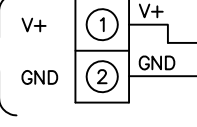
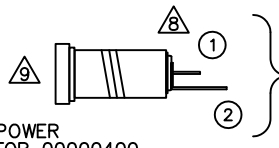
TERMINAL 00007241
DEUTSCH 1062-16-0122



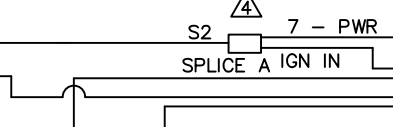
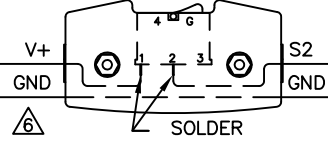
DIGITAL I/O

- 1 - DI1
- 13 - DI2
- 12 - DI3
- 20 - DI4
- 21 - DI5
- 22 - DO

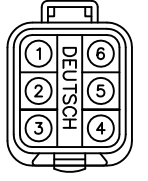
POWER
CONNECTOR 00000400
KOBICONN 163-0302



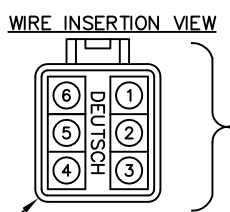
IN-LINE SWITCH
FWM: 00031087



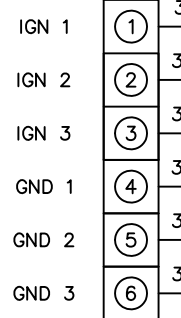
CONNECTOR 00008295
DEUTSCH DT04-6P
WEDGE LOCK W6P



CONNECTOR 00008376
DEUTSCH DT06-6S
WEDGE LOCK W6S



PLACE PRODUCT LABEL HERE



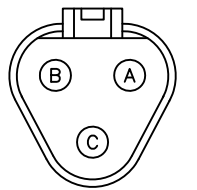
FREQ OUTPUTS

- 14 - FREQ OUTPUT 1
- 23 - FREQ OUTPUT 2

ANALOG INPUTS

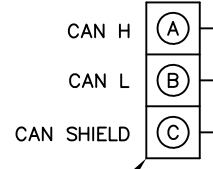
- 4 - AL1 SIGNAL
- 11 - AL1 GND
- 3 - AL2 SIGNAL
- 10 - AL2 GND
- 2 - AL3 SIGNAL
- 9 - AL3 GND

CAN 2
CONNECTOR 00009581
DEUTSCH DT06-3S

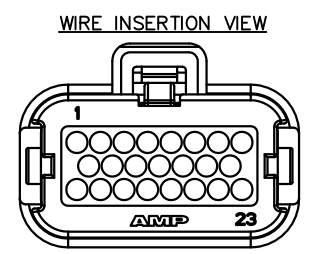


WIRE INSERTION VIEW
WEDGE LOCK 00008598
WEDGE LOCK W3S

TERMINAL 00007241
DEUTSCH 1062-16-0122



J1	Signal
6	CAN1 HI
5	CAN1 LO
1	DI1
13	DI2
12	DI3
20	DI4
21	DI5
22	DO
7	PWR (BATTERY)
15	IGNITION IN
8	GND
14	FREQ OUTPUT 1
23	FREQ OUTPUT 2
4	AL1 SIGNAL
11	AL1 GND
3	AL2 SIGNAL
10	AL2 GND
2	AL3 SIGNAL
9	AL3 GND
16	
17	
19	CAN 2 HI
18	CAN 2 LO



CONNECTOR: BLACK
AMP 770680-1
FWM 87070016

SOCKETS:
AMP 770520-1
FWM 87060023

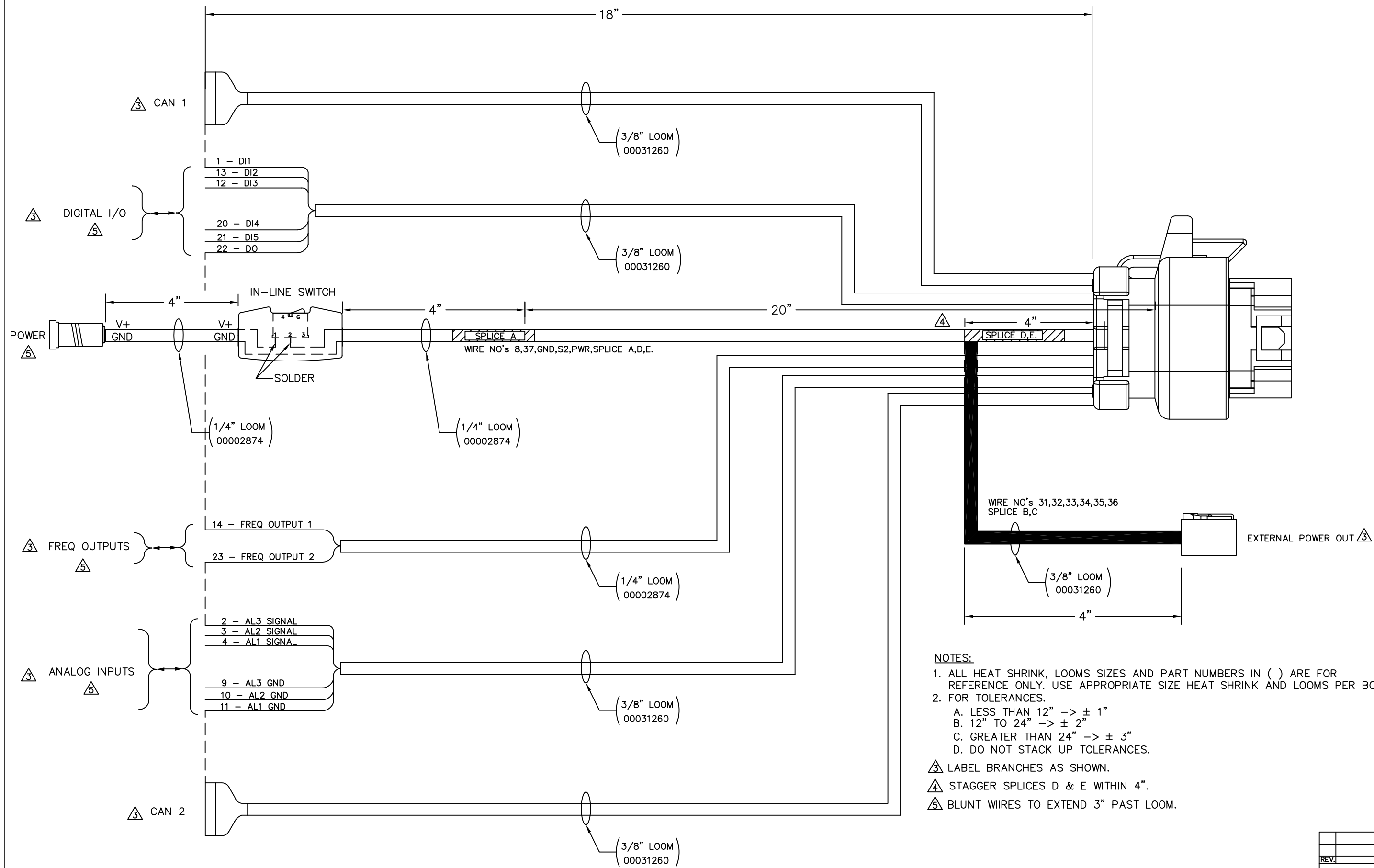
NOTES:

1. TWIST WIRES AS A GROUP, MINIMUM ONE TWIST PER INCH.
2. ALL WIRES ARE 18GA, WHITE, GXL [00001649], UNLESS OTHERWISE NOTED.
3. COVER END OF WIRE WITH HEAT SHRINK [00000824].
4. COVER EACH SPLICE CLIP WITH 1.5" OF HEAT SHRINK [00000533].
5. USE SEALING PLUG [87070028] IN ALL UNUSED POSITIONS OF CONNECTOR [87070016].
6. ROUTE GND WIRE THROUGH SWITCH.
7. AFTER ALL TERMINALS HAVE BEEN INSERTED, INSERT WEDGE LOCK:
CONNECTOR [00008376] - W6S [00009066].
CONNECTOR [00009581] - W3S [00008598].
8. 1 & 2 ARE WIRE SOLDER POINTS. AFTER SOLDERING, COVER EACH POINT WITH 5/16" OF HEAT SHRINK [00007661].
9. PART SHOWN WITHOUT OUTER PLASTIC PIECE.
10. PLUG CONNECTOR [00008376] WITH [00008295] CONNECTOR. INSERT 00002914 IN ALL POSITIONS OF 00008295.

CHANGES MADE			
REV.	DATE	BY	REASON

MURPHY

DRAWN BY: MS	E.R.NO. IPD	
DATE: 6/25/12	CHKD. BY: JRN APPD. BY: AU	
MODEL: PVW-780-BLK-PWR-CAN, SIGNALS, FREQOUT-WIRE HARNESS		
DRAWING NO. 78-00-1017	SIZE D	REV. A



NOTES:

1. ALL HEAT SHRINK, LOOMS SIZES AND PART NUMBERS IN () ARE FOR REFERENCE ONLY. USE APPROPRIATE SIZE HEAT SHRINK AND LOOMS PER BOM.
2. FOR TOLERANCES.
 - A. LESS THAN 12" -> ± 1"
 - B. 12" TO 24" -> ± 2"
 - C. GREATER THAN 24" -> ± 3"
 - D. DO NOT STACK UP TOLERANCES.

- ⚠ LABEL BRANCHES AS SHOWN.
- ⚠ STAGGER SPLICES D & E WITHIN 4".
- ⚠ BLUNT WIRES TO EXTEND 3" PAST LOOM.

CHANGES MADE			
MURPHY			
DRAWN BY: MS	E.R.NO. IPD		
DATE: 6/25/12	CHKD. BY: JRN	APPD. BY: AU	
MODEL: PVW-780-BLK-PWR-CAN, SIGNALS,FREQOUT-WIRE HARNESS			
DRAWING NO.	SIZE	REV.	
78-00-1017	D	A	

78-00-1017 REV. A

WIRE NO.	DESCRIPTION	MATERIAL	INCHES	TERM - A	FROM	TERM - B	TO	NOTES	CODE
06/25/12									
NOTES:									
1. MARK ALL WIRES WITH CODE CONTINUOUSLY APPROX. EVERY 2".									
2. REFER TO SHEET 1 FOR WIRING DIAGRAM.									
3. TWIST WIRES [5,6,16] TOGETHER; TWIST WIRES [17,18,19] TOGETHER. MINIMUM ONE TWIST PER INCH.									
4. WIRE 7 MUST MEASURE AT LEAST 20" FROM BACK OF CONNECTOR TO SPLICE A.									
1	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [1] 87070016	BLUNT	-		1 - DI1
2	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [2] 87070016	BLUNT	-		2 - AL3 SIG
3	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [3] 87070016	BLUNT	-		3 - AL2 SIG
4	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [4] 87070016	BLUNT	-		4 - AL1 SIG
5	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [5] 87070016	00007241 DEUTSCH SKT	CONN [B] 00009581 CAN 1	3	5 - CAN 1 LO
6	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [6] 87070016	00007241 DEUTSCH SKT	CONN [A] 00009581 CAN 1	3	6 - CAN 1 HI
7	18-WHT	00001649	21.00	87060023 TERM SKT	CONN [7] 87070016	3/8 STRIP	SPLICE [A] 00002078	4	7 - PWR
8	18-WHT	00001649	5.00	87060023 TERM SKT	CONN [8] 87070016	3/8 STRIP	SPLICE [D] 00002078		8
9	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [9] 87070016	BLUNT	-		9 - AL3 GND
10	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [10] 87070016	BLUNT	-		10 - AL2 GND
11	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [11] 87070016	BLUNT	-		11 - AL1 GND
12	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [12] 87070016	BLUNT	-		12 - DI3
13	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [13] 87070016	BLUNT	-		13 - DI2
14	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [14] 87070016	BLUNT	-		14 - FREQ OUT 1
15	18-WHT	00001649	5.00	87060023 TERM SKT	CONN [15] 87070016	3/8 STRIP	SPLICE [E] 00002078		15
16	18-WHT	00001649	20.00	00007241 DEUTSCH SKT	CONN [C] 00009581 CAN 1	BLUNT	-	3	51
17	18-WHT	00001649	20.00	00007241 DEUTSCH SKT	CONN [C] 00009581 CAN 2	BLUNT	-	3	52
18	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [18] 87070016	00007241 DEUTSCH SKT	CONN [B] 00009581 CAN 2	3	18 - CAN 2 LO
19	18-WHT	00001649	20.00	87060023 TERM SKT	CONN [19] 87070016	00007241 DEUTSCH SKT	CONN [A] 00009581 CAN 2	3	19 - CAN 2 HI
20	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [20] 87070016	BLUNT	-		20 - DI4
21	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [21] 87070016	BLUNT	-		21 - DI5
22	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [22] 87070016	BLUNT	-		22 - DO
23	18-WHT	00001649	19.00	87060023 TERM SKT	CONN [23] 87070016	BLUNT	-		23 - FREQ OUT 2
24	18-WHT	00001649	5.00	SOLDER	INLINE SW 2	3/8 STRIP	SPLICE [A] 00002078		S2
25	18-WHT	00001649	6.00	SOLDER	INLINE SW 1	1/4 STRIP	CONN [1] 00000400		V+
26	18-WHT	00001649	27.00	1/4 STRIP	CONN [2] 00000400	3/8 STRIP	SPLICE [D] 00002078		GND
27	18-WHT	00001649	17.00	3/8 STRIP	SPLICE [A] 00002078	3/8 STRIP	SPLICE [E] 00002078		IGN IN
28	18-WHT	00001649	2.50	3/8 STRIP	SPLICE [E] 00002078	3/8 STRIP	SPLICE [B] 00002078		41
29	18-WHT	00001649	2.50	3/8 STRIP	SPLICE [D] 00002078	3/8 STRIP	SPLICE [C] 00002078		42
30	18-WHT	00001649	4.00	00007241 DEUTSCH SKT	CONN [1] 00008376	3/8 STRIP	SPLICE [B] 00002078		31
31	18-WHT	00001649	4.00	00007241 DEUTSCH SKT	CONN [2] 00008376	3/8 STRIP	SPLICE [B] 00002078		32

WIRE SCHEDULE 78-00-1017

32	18-WHT	00001649	4.00	00007241 DEUTSCH SKT	CONN [3] 00008376	3/8 STRIP	SPLICE [B] 00002078		33
33	18-WHT	00001649	4.00	00007241 DEUTSCH SKT	CONN [4] 00008376	3/8 STRIP	SPLICE [C] 00002078		34
34	18-WHT	00001649	4.00	00007241 DEUTSCH SKT	CONN [5] 00008376	3/8 STRIP	SPLICE [C] 00002078		35
35	18-WHT	00001649	4.00	00007241 DEUTSCH SKT	CONN [6] 00008376	3/8 STRIP	SPLICE [C] 00002078		36