REV	ZONE	DESCRIPTION OF CHANGE

15 SOLDER WIRE TO TERMINAL USING SOLDER (ITEM NO. 45).

14 CRIMP WIRE INTO PIN (SUPPLIED WITH CONNECTOR) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

13 WIRE IS SUPPLIED AND INSTALLED WITH USB CONNECTOR.

12 IDENTIFY BY RUBBER STAMP. PART NUMBER AND SERIAL NUMBER, .12 HIGH CHARACTERS, LOCATE APPROXIMATELY AS SHOWN.

11 TORQUE FOR TERMINAL SCREWS ARE AS FOLLOWS:
NO. 8 SCREWS ---- ± - IN-LBS
NO. 4 SCREWS ---- ± - IN-LBS

10 INSTALL CABLE TIES (ITEM NO. 30) PER NASA-STD-8739.4.

9 PRIOR TO INSTALLING FASTENERS, SEAL WITH AEROGLAZE 9743/9700.

8 (31-151 IN-OZ ABOVE RUNNING TORQUE (__ - __ IN-OZ RUNNING TORQUE).

7 THIS ITEM SUPPLIED BY MANUFACTURER WITH COMPONENT.

6

5 TORQUE PER FLAG NOTE 8 THEN APPLY PRIMER (ITEM NO. 48) AND RTV (ITEM NO. 49) TO SCREW HEADS TO PROVIDE ELECTRICAL BARRIER.

4 AFFIX SERIAL NUMBER ID PLATE (ITEM NO. 11) APPROXIMATELY WHERE SHOWN, ORIENT TEXT AS INDICATED.

3 ORIENT MASTER KEYWAY AS INDICATED.
CONTACT POSITIONS NOT LISTED ARE NOT WIRED.
ALL UNUSED CONTACT POSITIONS TO BE FILLED WITH APPROPRIATE SEALING PLUG.

2 IT IS RECOMMENDED IN TABLE A (SHEET 3) WIRING BE ROUTED THROUGH WIRE CABLE CLAMPS (ITEM NO 23) AND FOLLOW THE INSTALLED WIRING ROUTE THROUGH TO ITS DESTINATION POINT.
IT IS RECOMMENDED THAT LED WIRES ALSO BE ROUTED THROUGH THESE WIRE RETAINERS.
WIRE RETAINERS ARE IDENTIFIED AS ROUTING POINTS A THRU D (SEE SHEET 2).
WIRE ROUTING DEVIATIONS SHALL BE DOCUMENTED AND REQUIRE APPROVAL FROM THE PROJECT MANAGER.

1 TORQUE LED NUT TO __ IN/LBS, INSTALL PER MANUFACTURER'S INSTRUCTIONS.

NOTES: UNLESS OTHERWISE SPECIFIED

6. MARKINGS WITH A "SHARPIE" PEN ON THE INSIDE SURFACES OF ITEM NO 1 (PANEL) ALLOWED.
NO MARKINGS ALLOWED ON ANY VIEWABLE SURFACES OF ASSEMBLY.

5. WIRE ASSEMBLY PER TABLE A, USING WIRING DIAGRAM WHERE NEEDED.

4. COMPLETELY COAT ALL EXPOSED ELECTRICAL CONTACTS USING RTV (ITEM NO. 49 OR 51).

2. THIS ASSEMBLY CONTAINS NO FRACTURE CRITICAL PARTS.

1. INTERPRET DRAWING PER JPG 8500.4.

	QTY	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATION	ITEM
						60
						59
						58
						57
						56
						55
	A/R	M23053/8-002C	SHRINK TUBING, KYNAR			54
13	A/R	TYZ523W	CABLE TIE, TEFZEL	T & B 56501		53
						52
	A/R	3145	RTV	DOW CORNING 71984		51
	A/R	M23053/8-004C	SHRINK TUBING, KYNAR			50
	A/R	3140	RTV	DOW CORNING 71984		49
	A/R	1204	PRIMER	DOW CORNING 71984		48
						47
						46
	A/R	SN63 PB37	SOLDER	FLUX R	ANSI/J-STD-006	45
7	A/R	AEROGLAZE 9743/9700	EPOXY PRIMER	COULTARDS 9J509		44
	5		SOLDERLESS CONNECTOR RED, PUSH ON			43
	A/R	NASM15795-845	WASHER, FLAT, CRES STEEL, #6			42
	4	MS51957-14	SCREW, 4-40 PAN HEAD			41
	4	NAS1102E04-5	SCREW, FLAT HEAD, 4-40, .375 LONG			40
						39
	4	NASM15795-___	NUT, HEX, CRES STEEL, #4			38
	4	NAS1640-4	WASHER, LOCK #4 CRES STEEL			37
	4	NASM15795-___	WASHER, FLAT, CRES STEEL, #4			36
	1		LUG, GROUNDING			35
	10	NASM315-___	NUT, HEX, CRES STEEL, #8			34
	20	NASM15795-___	WASHER, FLAT, CRES STEEL, #8			33
	20	NAS1640-8	WASHER, LOCK #8 CRES STEEL			32
	10	MS15959-__	SCREW, FLAT HEAD, 8-32, .5 LONG, 82°			31
	-301	SED26148201	PANEL ASSEMBLY, IRMU			--

QTY	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATION	ITEM
					30
					29
					28
					27
					26
					25
					24
5	AS21919WCJ04	CABLE CLAMP, P-STYLE, .25 DIA			23
					22
A/R	M22759/11-20-7	WIRE, TFE, INSULATED, BLUE	COPPER, AG COATED 20 AWG	MIL-W-22759/11	21
A/R	M22759/11-20-7	WIRE, TFE, INSULATED, GRAY	COPPER, AG COATED 20 AWG	MIL-W-22759/11	20
A/R	M22759/11-20-1	WIRE, TFE, INSULATED, WHITE	COPPER, AG COATED 20 AWG	MIL-W-22759/11	19
A/R	M22759/11-20-0	WIRE, TFE, INSULATED, BLACK	COPPER, AG COATED 20 AWG	MIL-W-22759/11	18
A/R	M22759/11-20-5	WIRE, TFE, INSULATED, GREEN	COPPER, AG COATED 20 AWG	MIL-W-22759/11	17
A/R	M22759/11-20-2	WIRE, TFE, INSULATED, RED	COPPER, AG COATED 20 AWG	MIL-W-22759/11	16
A/R	M22759/11-22-7	WIRE, TFE, INSULATED, GRAY	COPPER, AG COATED 22 AWG	MIL-W-22759/11	15
A/R	M22759/11-22-1	WIRE, TFE, INSULATED, WHITE	COPPER, AG COATED 22 AWG	MIL-W-22759/11	14
A/R	M22759/11-22-2	WIRE, TFE, INSULATED, RED	COPPER, AG COATED 22 AWG	MIL-W-22759/11	13
A/R	M22759/11-22-0	WIRE, TFE, INSULATED, BLACK	COPPER, AG COATED 22 AWG	MIL-W-22759/11	12
1	SDD261480X-001	DECAL, SERIAL NUMBER			11
10		HEX STAND OFF, .375 HIGH, THREADED			10
1	CD61.1501.151	POWER RECEPTACLE FILTER, FUSE	SCHURTER -----	A2	9
1	ECJ504B	USB CONNECTOR	L-COM 43321	J2	8
1	0116-P202TA-10-6S	CONNECTOR	AMPHENOL -----	J1	7
1	1732-R5-CR	LED INDICATOR, GREEN	DATA DISPLAY PRODUCTS 15513	D2	6
1	1732-R5-CR	LED INDICATOR, RED	DATA DISPLAY PRODUCTS 15513	D1	5
1	P1-90108	SWITCH	OTTO CONTROLS 21649	SW2	4
1	ML5-OV-A	POWER SUPPLY	CONDOR POWER SUPPLIES -----	PS1	3
1	SED26148300-301	CIRCUIT CARD ASSEMBLY, IRMU		A1	2
1	SED26148202-301	PANEL, IRMU			1
-301	SED26148201	PANEL ASSEMBLY, IRMU			--

QTY	PART NUMBER	DESCRIPTION	MATERIAL	SPECIFICATION	ITEM

UNLESS NOTED OTHERWISE DIM ARE IN INCHES, TOL ARE: .0 ± .1 .000 ± .005 .00 ± .02 ANGULAR ± .5°

SURFACE FINISH IN MICROINCHES RMS UNLESS NOTED OTHERWISE ✓

FRACTURE CRITICAL ☐ YES ☒ NO

NEXT ASSY N/A

DWG FILENAME IRMU_PANEL_ASSY.DRW

SIGNATURES		DATE
DR	F. SALAZAR	02/02/04
ENG	S. LIMING	02/02/04
CH	CH Signature	CH Date
APP	APP Signature	APP Date
QE	QE Signature	QE Date
MATL	MATL Signature	MATL Date
STRESS	STRESS Signature	STRESS Date
AUTH	AUTH Signature	AUTH Date
	TEST APP	STAMP Date

☐ FLT HDWR ☒ APPLICABLE GSE
☐ OTHER (SPECIFY) _

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

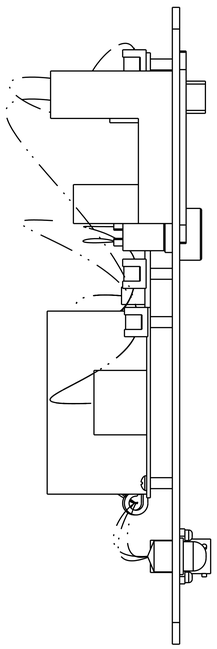
PANEL ASSEMBLY, IRMU

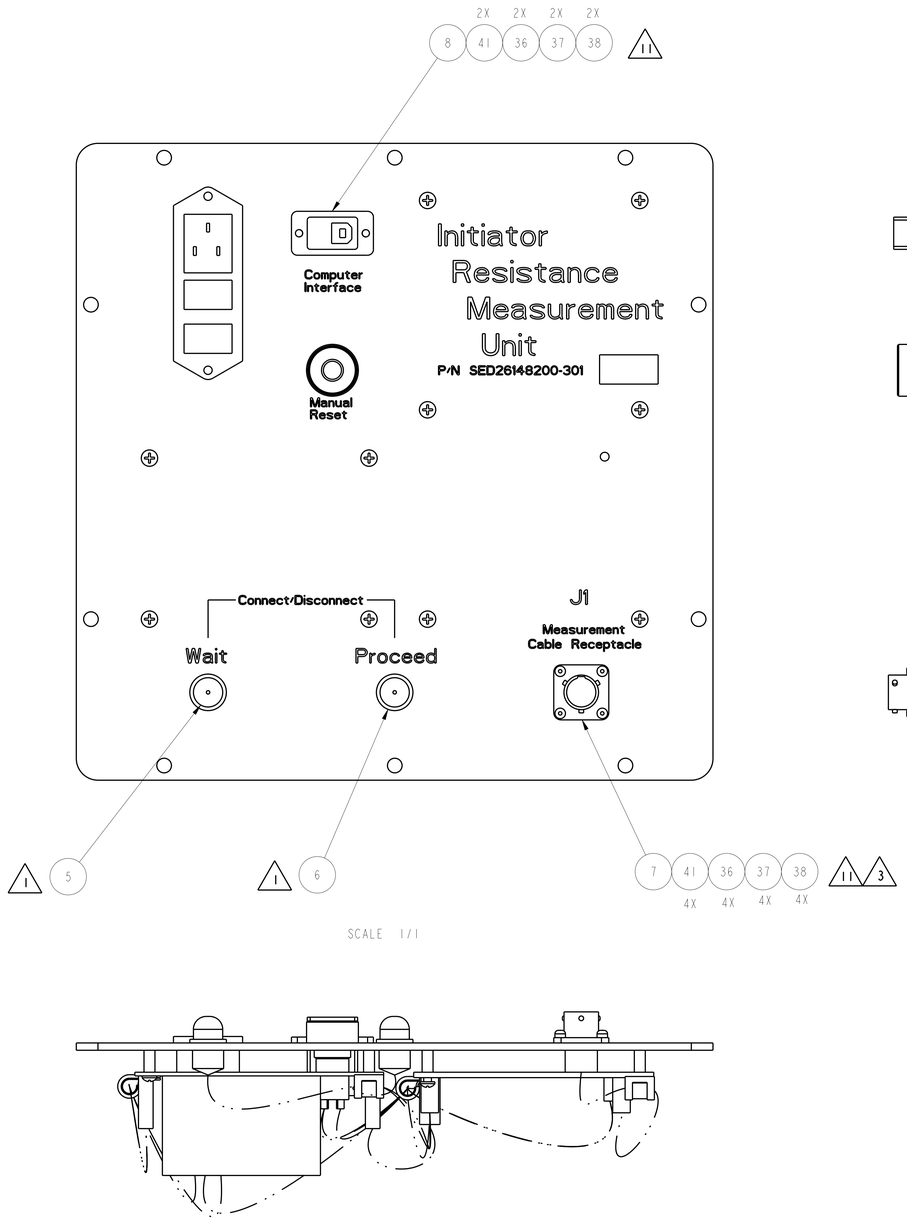
PROJECT SHUTTLE

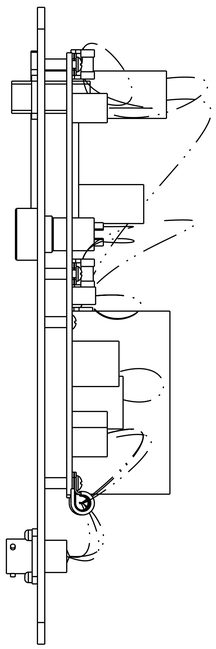
SIZE	CAGE CODE	DWG NO	REV
E	21356	SED26148201	TST

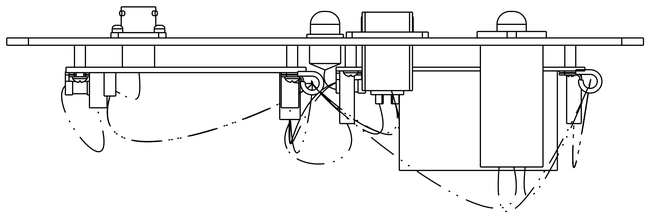
SCALE 1/1 ORG EPS FMT P01MAR01 SHEET 1 OF 3

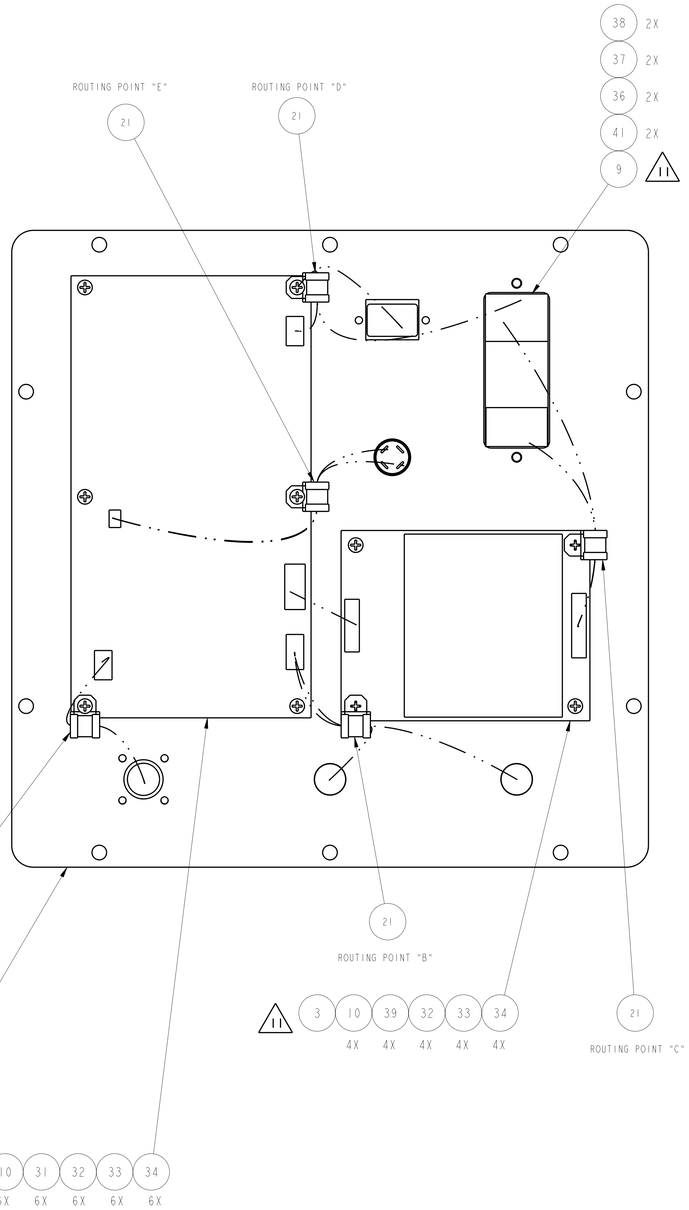
STATUS: Check for DCNs against the drawing.











SIZE	CAGE CODE	DWG NO	REV
E	21356	SED26148201	TST
SCALE 1/1	DRG EPS	FMT P01MAR01	SHEET 2 OF 3

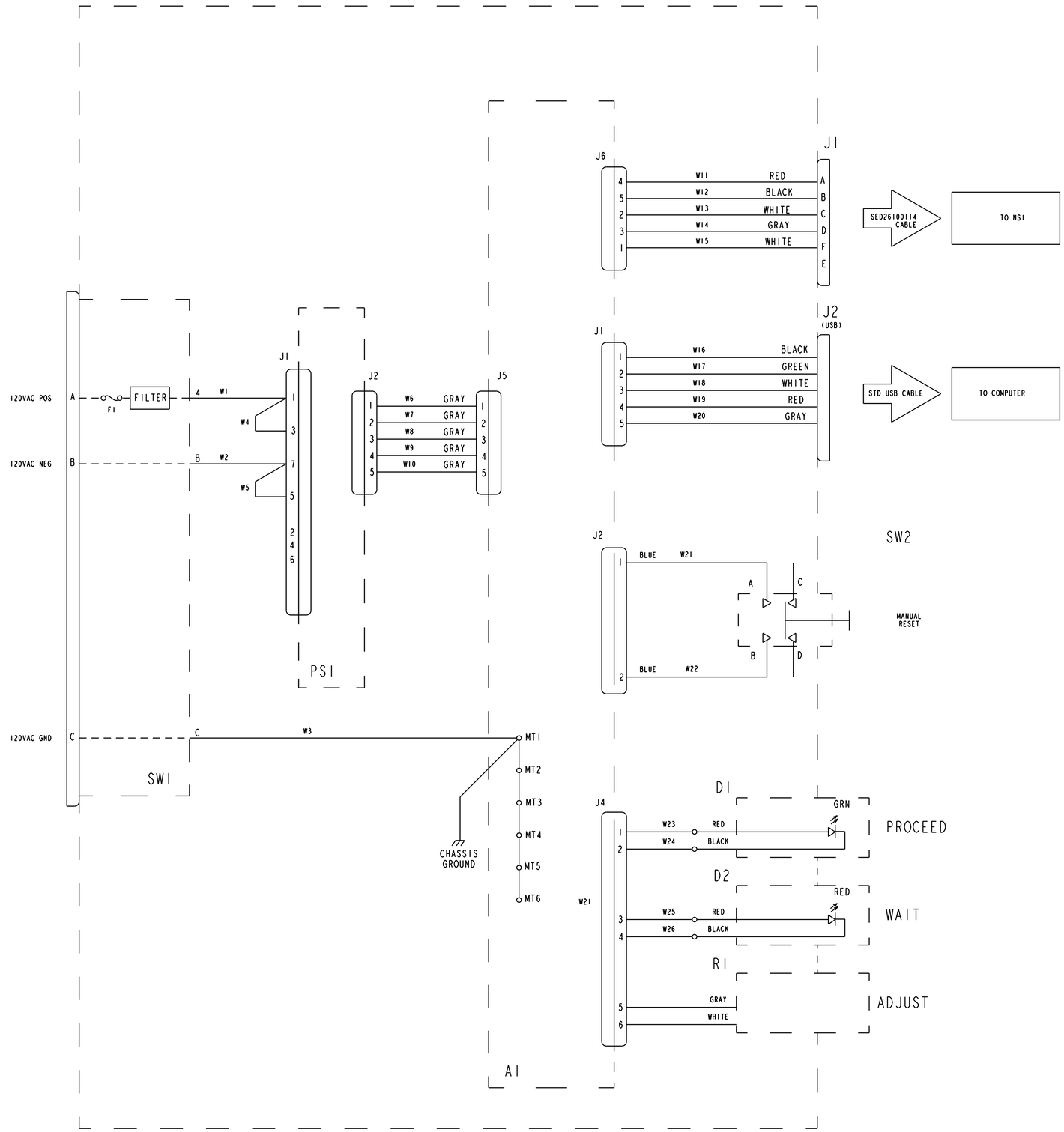


TABLE A △2

WIRE NAME (REF ONLY)	FROM REF DES	FROM PIN	TO REF DES	TO PIN	WIRE ITEM NO	ROUTE	TERMINAL (FROM) ITEM NO./ DESCRIPTION	TERMINAL (TO) ITEM NO./ DESCRIPTION	REMARKS
W1	SW1	4	PS1	J1-1	18	C	40	△14	BLACK, 20 AWG
W2	SW1	B	PS1	J1-7	19	C	40	△14	WHITE, 20 AWG
W3	SW1	C	A1	MT1	20	E	△14	35 △16	GRAY, 20 AWG
W4	PS1	J1-1	PS1	J1-3	18	NONE	△14	△14	BLACK, 20 AWG
W5	PS1	J1-7	PS1	J1-5	19	NONE	△14	△14	WHITE, 20 AWG
W6	PS1	J2-1	A1	J5-1	20	NONE	△14	△14	GRAY, 20 AWG
W7	PS1	J2-2	A1	J5-2	20	NONE	△14	△14	GRAY, 20 AWG
W8	PS1	J2-3	A1	J5-3	20	NONE	△14	△14	GRAY, 20 AWG
W9	PS1	J2-4	A1	J5-4	20	NONE	△14	△14	GRAY, 20 AWG
W10	PS1	J2-5	A1	J5-5	20	NONE	△14	△14	GRAY, 20 AWG
W11	A1	J6-4	J1	A	13	A	△14	△14	RED, 22 AWG
W12	A1	J6-5	J1	B	12	A	△14	△14	BLACK, 22 AWG
W13	A1	J6-2	J1	C	14	A	△14	△14	WHITE, 22 AWG
W14	A1	J6-3	J1	D	15	A	△14	△14	GRAY, 22 AWG
W15	A1	J6-1	J1	F	14	A	△14	△14	WHITE, 22 AWG
W16	A1	J1-1	J2	BLACK	--	E	△14	△13	BLACK, 24 AWG
W17	A1	J1-2	J2	WHITE	--	E	△14	△13	WHITE, 24 AWG
W18	A1	J1-3	J2	GREEN	--	E	△14	△13	GREEN, 24 AWG
W19	A1	J1-4	J2	RED	--	E	△14	△13	RED, 24 AWG
W20	A1	J1-5	J2	GRAY	--	E	△14	△13	GRAY, 24 AWG
W21	A1	J2-1	SW2	1	21	D	△14	35 △16	BLUE, ? AWG
W22	A1	J2-2	SW2	2	21	D	△14	35 △16	BLUE, ? AWG
W23	A1	J4-1	D2	RED	13	B	△14	△15	RED, 22 AWG
W24	A1	J4-2	D2	BLACK	12	B	△14	△15	BLACK, 22 AWG
W25	A1	J4-3	D1	RED	13	B	△14	△15	RED, 22 AWG
W26	A1	J4-4	D1	BLACK	12	B	△14	△15	BLACK, 22 AWG

WIRING DIAGRAM
-301 ASSEMBLY

SIZE	CAGE CODE	DWG NO	REV
E	21356	SED26148201	TST
SCALE 1/1	ORG EPS	FMT P01MAR01	SHEET 3 OF 3