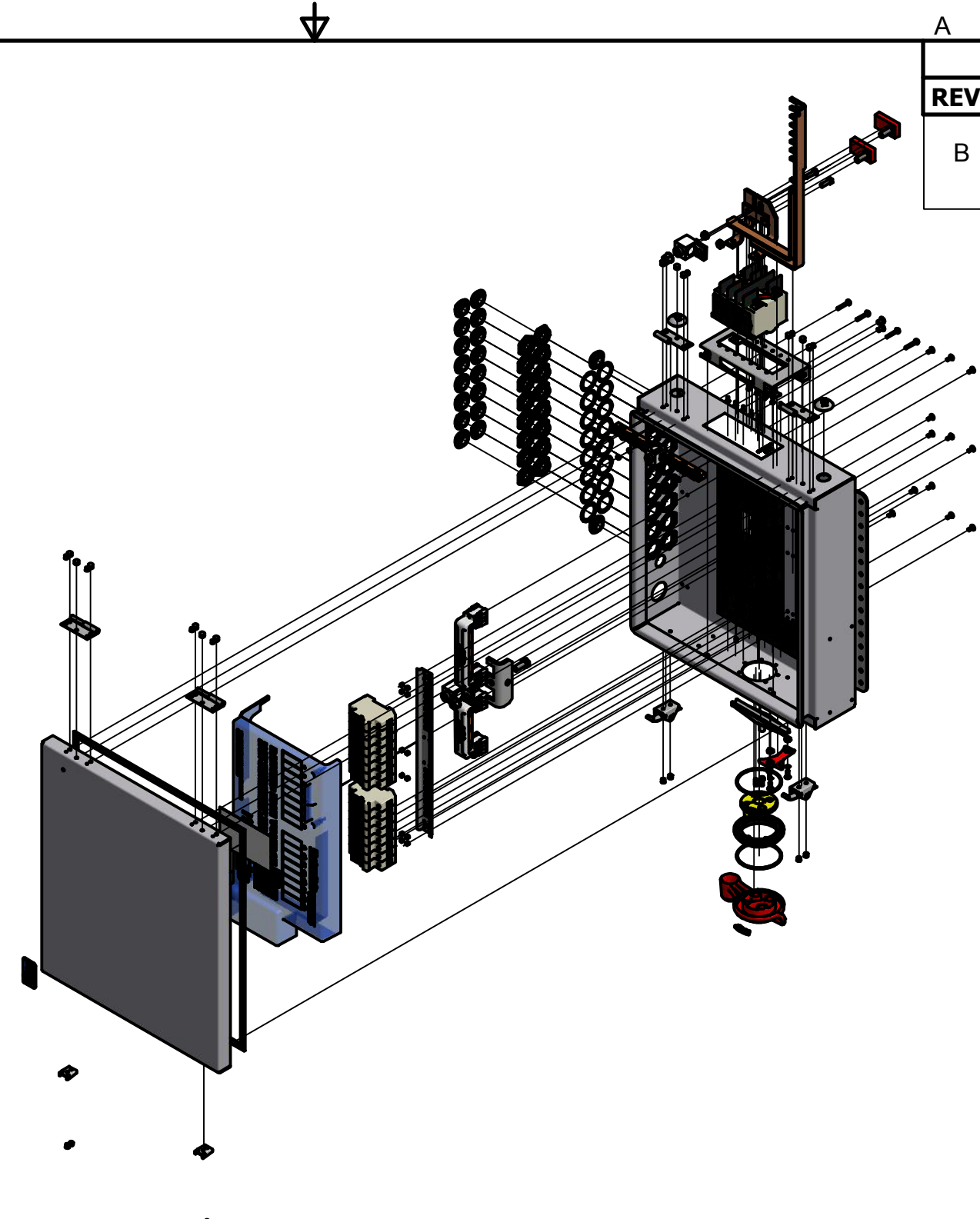


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	3-321-1 REV A MNPV16HV DISCO 4X BUSBAR OUT3	3-321-1 REV A MNPV16HV DISCO 4X BUSBAR OUT3
2	1	3-288-10 REV C MNPV16HV DISCO 4X CHASSIS ASSY	3-288-10 REV C MNPV16HV DISCO 4X CHASSIS ASSY
3	1	3-289-10 REV A MNPV16HV DISCO 4X DOOR ASSY	3-289-10 REV A MNPV16HV DISCO 4X DOOR ASSY
4	2	6-096-1 SOUTHC0 97-50-310-12 ASSY	6-096-1 SOUTHC0 97-50-310-12 ASSY
5	2	6-095-1 SOUTHC0 97-37-24 KEEPER	6-095-1 SOUTHC0 97-37-24 KEEPER
6	2	9-309-2 MODIFIED SOUTHC0 96-04-SIWL NO PIN	9-309-2 MODIFIED SOUTHC0 96-04-SIWL NO PIN
7	2	9-309-1 MODIFIED SOUTHC0 96-04-SIWL WITH PIN	9-309-1 MODIFIED SOUTHC0 96-04-SIWL WITH PIN
8	1	3-291-1 REV B MNPV16HV DISCO 4X BUSBAR PLOUT1	3-291-1 REV B MNPV16HV DISCO 4X BUSBAR PLOUT1
9	1	3-296-1 REV B MNPV16HV DISCO 4X BUSBAR PLOUT2	3-296-1 REV B MNPV16HV DISCO 4X BUSBAR PLOUT2
10	8	9-342-1 HANSON AD54AH SEALED RIVET 5-32	9-342-1 HANSON AD54AH SEALED RIVET 5-32
11	8	9-343-1 AB4-2A SOLID RIVET 1-8	9-343-1 AB4-2A SOLID RIVET 1-8
12	1	9-325-1 CARLING CX-5 ASSY	9-325-1 CARLING CX-5 ASSY
13	1	3-292-1 REV A MNPV16HV DISCO 4X DINRAIL	3-292-1 REV A MNPV16HV DISCO 4X DINRAIL
14	1	3-291-2 REV A MNPV16HV DISCO 4X BUSBAR OUTPUTPAR	3-291-2 REV A MNPV16HV DISCO 4X BUSBAR OUTPUTPAR
15	1	3-294-1 REV A MNPV16HV DISCO 4X BUSBAR MINUS OUT	3-294-1 REV A MNPV16HV DISCO 4X BUSBAR MINUS OUT
16	1	3-295-1 REV A MNPV16HV DISCO 4X BUSBAR MINUS OUT	3-295-1 REV A MNPV16HV DISCO 4X BUSBAR MINUS OUT
17	1	5-048-1 REV C MNPV6 DISCO HANDLE	5-048-1 REV B MNPV6 DISCO HANDLE
18	20	5-107-1 REV A HALF INCH HOLE PLUG	5-107-1 REV A HALF INCH HOLE PLUG
19	1	5-132-1 REV A MNPV16HV DISCO 4X INSULATOR	5-132-1 REV A MNPV16HV DISCO 4X INSULATOR
20	1	5-125-1 REV A MNPV16 HV DISCO 4X DEAD FRONT	5-125-1 REV A MNPV16 HV DISCO 4X DEAD FRONT
21	1	8-037-10 REV A MNPV POWER SUPPLY PCBA	8-037-10 REV A MNPV POWER SUPPLY PCBA
22	1	3-224-1 REV C MNPV6 LOCK BASE	3-224-1 REV C MNPV6 LOCK BASE
23	1	3-225-1 REV C MNPV6 STOP	3-225-1 REV C MNPV6 STOP
24	1	3-293-1 REV A MNPV16HV DISCO 4X BUSBAR PLOUT	3-293-1 REV A MNPV16HV DISCO 4X BUSBAR PLOUT
25	12	6-049-1 .125 IN. DIA. BY .25 IN. LONG AL. RIVET	6-049-1 .125 IN. DIA. BY .25 IN. LONG AL. RIVET
26	16	9-083-1 FUSE HOLDER	9-083-1 FUSE HOLDER
27	1	5-029-1 REV A BADEGE 2	5-029-1 REV A BADEGE 2
29	1	5-057-1 REV D MNPV6 DISCO SEALING RING	5-057-1 REV D MNPV6 DISCO SEALING RING
30	2	9-281-1 O-RINGS EPDM AS568B-150	9-281-1 O-RINGS EPDM AS568B-150
31	2	9-282-1 O-RINGS, EPDM AS568B-011	9-282-1 O-RINGS, EPDM AS568B-011
32	1	5-102-1 REV A MNXX DISCO ADAPTOR PLATE	5-102-1 REV A MNXX DISCO ADAPTOR PLATE
33	2	6-091-1 SCREW 10-32 X .375 FHP SMS SS	6-091-1 SCREW 10-32 X .375 FHP SMS SS
34	2	6-045-1 SCREW 10-32 X .50 PHP SS	6-045-1 SCREW 10-32 X .50 PHP SS
35	1	9-378-1 CENTURY SPRING	9-378-1 CENTURY SPRING
36	1	5-135-1 P1 MNPV24 GRABBER CX-7	5-135-1 P1 MNPV24 GRABBER CX-7
37	6	6-016-1 KEPS NUT 10-32 SS	6-016-1 KEPS NUT 10-32 SS
38	1	3-245-1 P3 MNPV24 DISCO BRACKET CX7	3-245-1 P3 MNPV24 DISCO BRACKET CX7
40	16	5-118-1 REV B MNXX CONDUIT ADAPTER	5-118-1 REV B MNXX CONDUIT ADAPTER
41	16	5-119-1 REV A MNXX CONDUIT ADAPTOR NUT	5-119-1 REV A MNXX CONDUIT ADAPTOR NUT
42	16	5-126-1 REV B MNXX CONDUIT ADAPTOR GASKET	5-126-1 REV B MNXX CONDUIT ADAPTOR GASKET
43	10	6-060-1 SCREW 6-32 X3 8 MS PHP	6-060-1 SCREW 6-32 X3 8 MS PHP
44	1	5-122-2 REV B MNXX WHITE BUSBAR GUARD 2-0-9	5-122-2 REV B MNXX WHITE BUSBAR GUARD 2-0-9
45	2	5-124-3 REV C MNXX LA350 RED STAND OFF	5-124-3 REV C MNXX RED LA350 STAND OFF
46	3	6-109-1 HEX BOLT .375X.875	6-109-1 HEX BOLT .375X.875
47	3	9-298-1 CAL FASTENER LA-350-1	9-298-1 CAL FASTENER LA-350-1
48	1	9-341-1 CAL FASTENER CA-380 350MCM	9-341-1 CAL FASTENER CA-380 350MCM
49	2	6-100-1 .25-20 KEPS NUT SS	6-100-1 .25-20 KEPS NUT SS
50	1	5-123-1 REV A MNXX BLACK BUSBAR GUARD 2-0-15	5-123-1 REV A MNXX BLACK BUSBAR GUARD 2-0-15
51	1	9-291-1 BUSBAR 15 POSITION	9-291-1 BUSBAR 15 POSITION
52	3	9-292-1 CAL FASTENER SCB250 2-0	9-292-1 CAL FASTENER SCB250 2-0
53	1	9-334-1 MNPV16HV DISCO 4X FOAM TAPE	9-334-1 MNPV16HV DISCO 4X FOAM TAPE
54	3	6-093-1 3 8 KEPS NUT SS	6-093-1 3 8 KEPS NUT SS
55	2	6-137-1 HEX HEAD BOLT .25-20 X .75	6-137-1 HEX HEAD BOLT .25-20 X .75
56	2	9-382-1 RED HEAT SHRINK	1.2 INCHES
57	4	5-047-2 REV B MN INSULATOR WHITE 2-0	5-047-2 REV A MN INSULATOR WHITE 2-0
58	1	5-053-1 REV B MNPV6 DISCO LABEL	5-053-1 REV A MNPV6 DISCO LABEL
60	4	6-151-1 SEELSCREW 8-32 X 1.0 PHP SS	6-151-1 SEELSCREW 8-32 X 1.0 PHP SS
61	4	6-116-1 NO.8 INTERNAL LOCK WASHWER	6-116-1 NO.8 INTERNAL LOCK WASH

NOTES

- 1) P/N 9-291-9 , MUST HAVE TWO END SCREWS REMOVED,
SO THAT 5-047-X INSULATORS CAN BE INSTALLED.
- 2) UNIT SHIPS WITH THE FOLLOWING
 - ° UNIT SHIPS WITH ONE SPD 600V
 - ° TWO BUSBARS, ITEM 1 (3-295-1) AND ITEM 11 (3-321-1)
- 3) WIRES FOR THE TOP COVER GROUND WIRE ARE NOT SHOWN.
 - ° GREEN WIRE PART NUMBER, 6 INCHES LONG
GOES FROM GROUND BUSBAR TO STUD ON COVER.
USE ITEM 26 TO TERMINATE AT STUD
- 3) 16 FUSES SHIP WITH THE UNIT, MN P/N 9-084-1

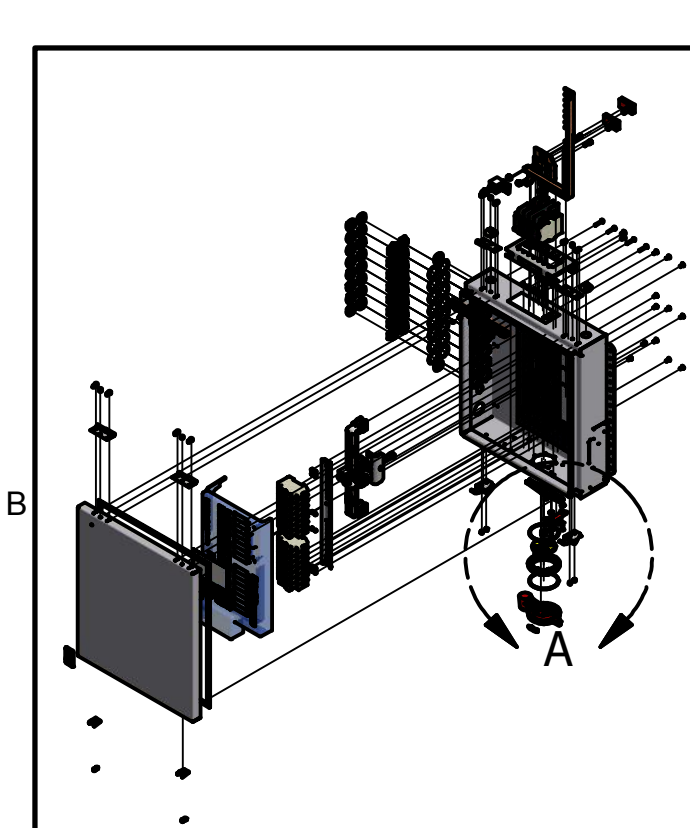


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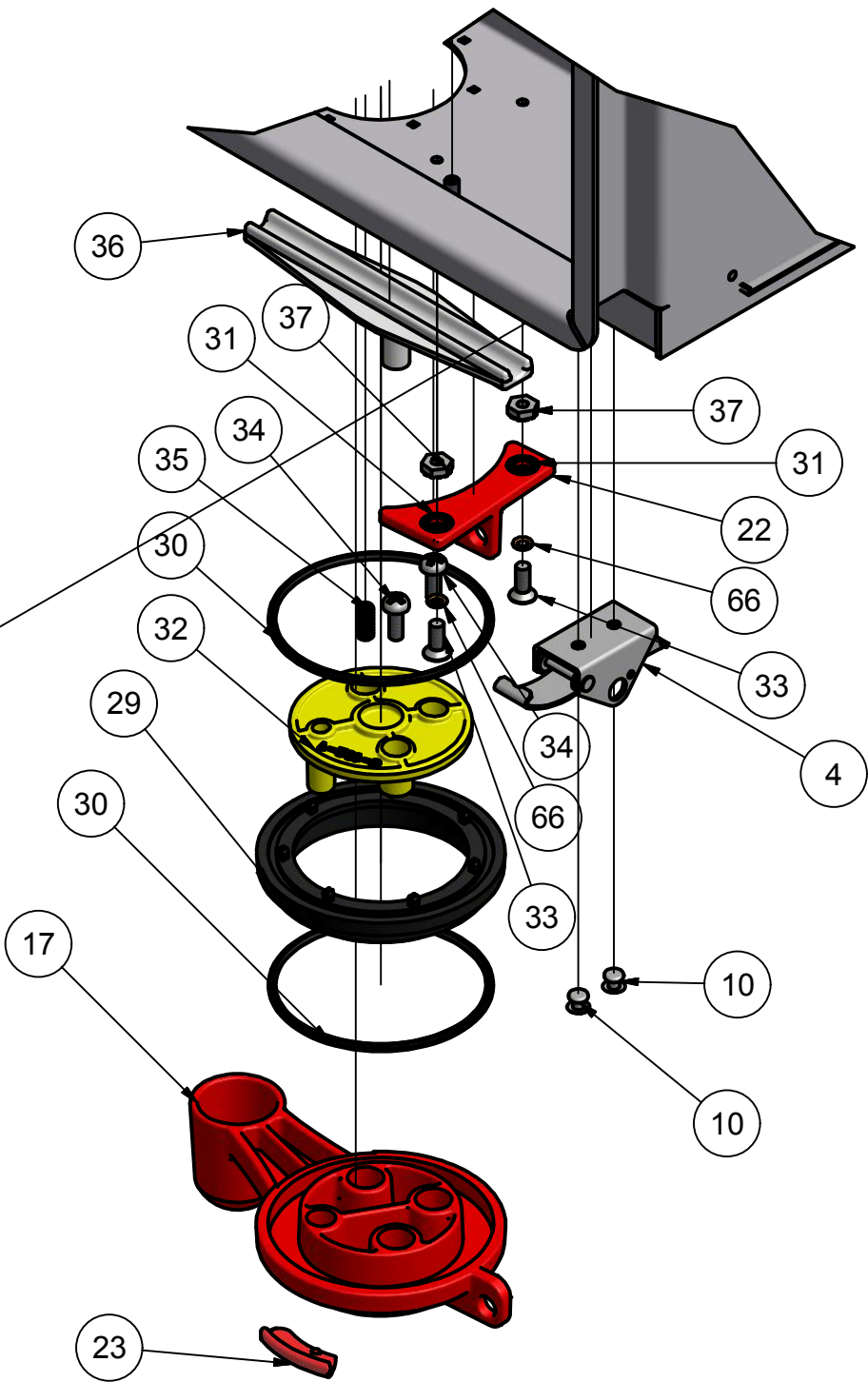
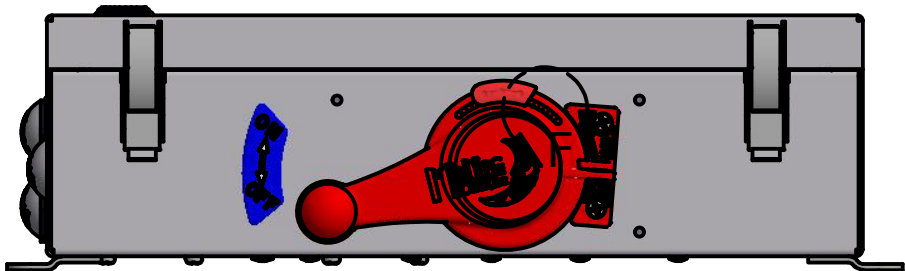
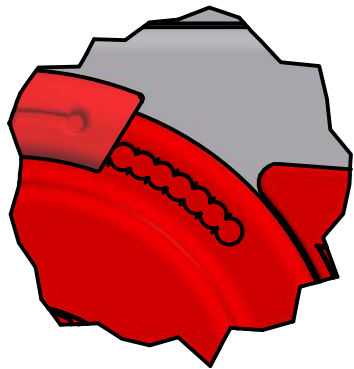
REVISION HISTORY			
REV.	DESCRIPTION OF CHANGE	DATE	SIGN
B	SEPARATED HAT FROM CHASSIS REPLACED RIVETS WITH SEEL SCREWS ADDED 2 ORINGS TO LOCK SCREWS REPLACED HINGE WITH MODIFIED HINGE REPLACED STANOFF SCREWS WITH SEEL SCREWS	12/28/11	RAQ

ALL TOLERANCES, UNLESS OTHERWISE STATED: x.xxx= +/- -0.005" x.xx= +/- -0.01" x.x= +/- -0.05" ALL ANGLES = +/- 1° UNLESS OTHERWISE STATED		DRAWN Bob Q	12/28/2011	MIDNITE SOLAR, INC			
		CHECKED					
		QA		TITLE MNPV16 REV B DISCO 4X FINAL ASSSY			
		MFG					
MATERIAL:	STANDARDS:	APPROVED		SIZE B	PROJECT: MNPV16 DISCO 4X	DWG NO MNPV16 REV B DISCO 4X FINAL ASSSY	REV B
FINISH:							
PROCESS:				E-FILE:MNPV16 REV B DISCO 4X FINAL ASSSY.iam		SHEET 1 OF 5	

REVISION HISTORY			
REV.	DESCRIPTION OF CHANGE	DATE	SIGN



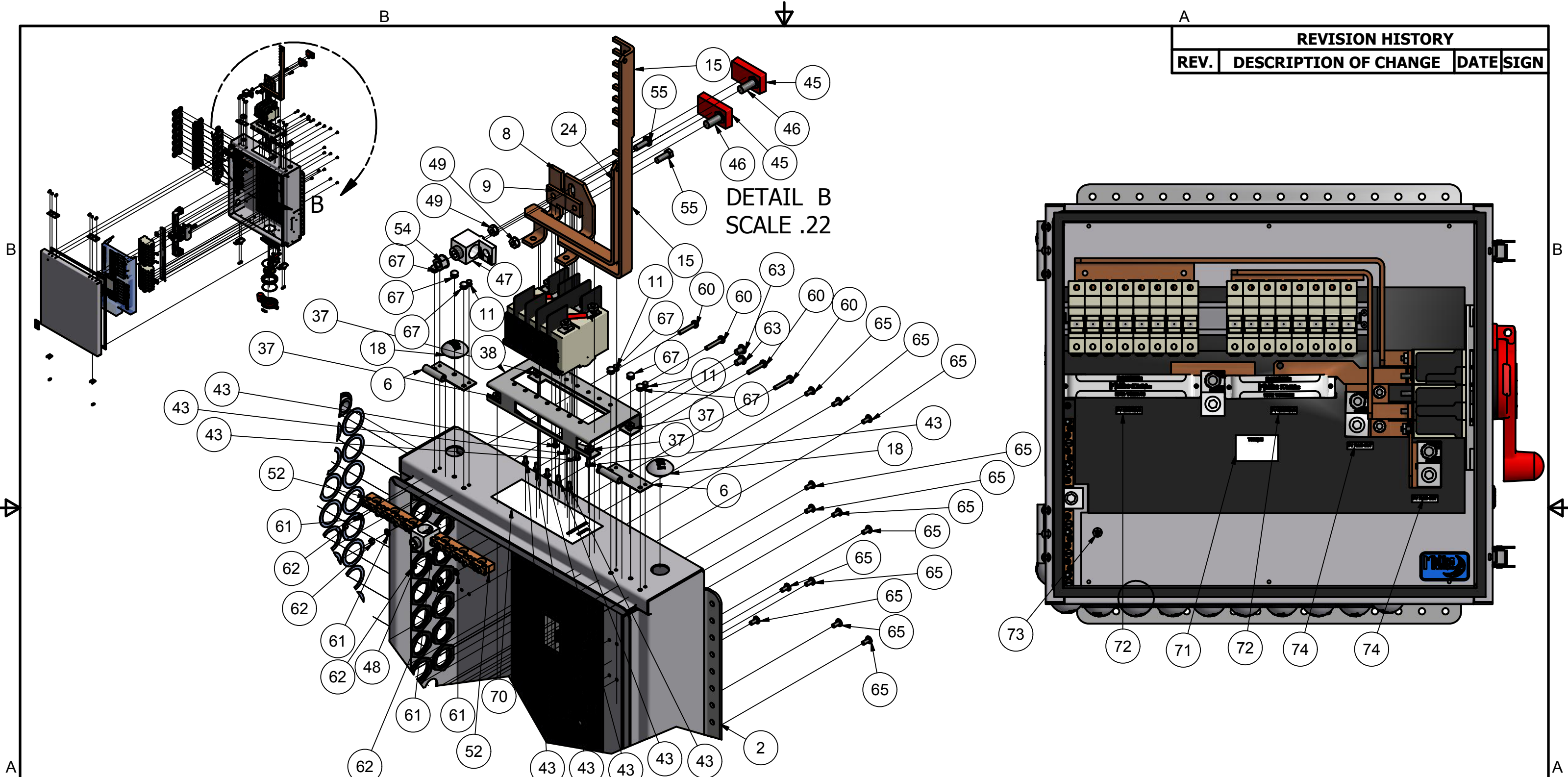
DETAIL F
SCALE 1 : 1



DETAIL A
SCALE .4

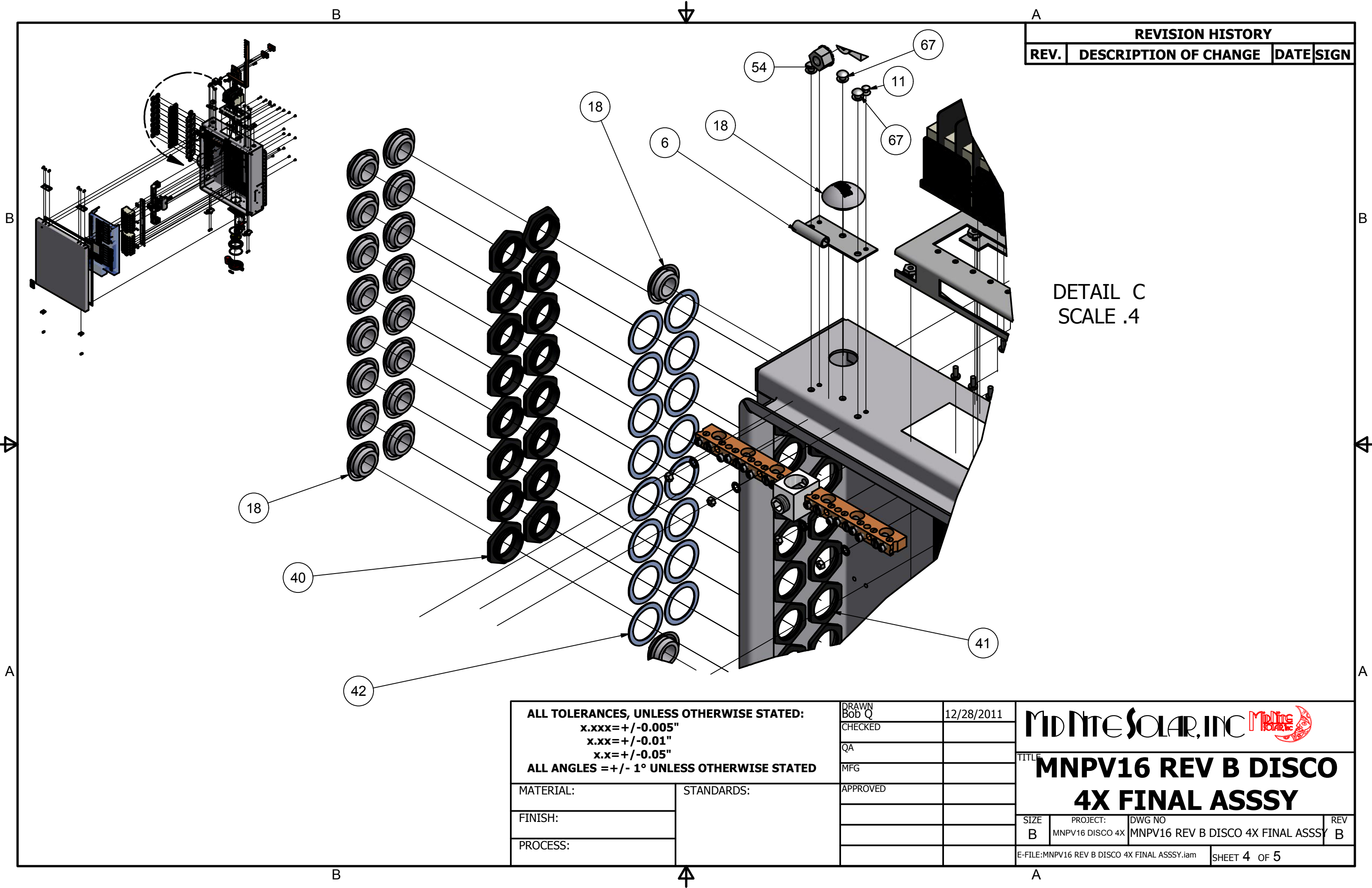
- ASSEMBLY INSTRUCTIONS:
- 1) LIBERALLY APPLY DOW CORNING 111 GREASE TO ITEMS 31, 66 AND 30.
 - 2) APPLY LOCTITE 242 TO THREADS OF ITEM 34 BEFORE INSTALLATION
 - 3) TIGHTEN ITEMS 34 UNTIL THE SCREWS BOTTOM OUT, THEN BACK OUT 1/2 TURN. VERIFY THAT THE HANDLE TURNS WITH A SLIGHT RESISTANCE BEFORE MOVING FORWARD WITH THE ASSEMBLY.
 - 4) APPLY LOCTITE SUPER GLUE 401 TO ITEM 23.
 - 5) SEE DETAILED VIEW "F" FOR POSITION OF ITEM 23 IN RELATION TO HOLES IN ITEM 17.

ALL TOLERANCES, UNLESS OTHERWISE STATED: x.xxx=+/-0.005" x.xx=+/-0.01" x.x=+/-0.05" ALL ANGLES =+/- 1° UNLESS OTHERWISE STATED		DRAWN Bob Q	12/28/2011	MIDNITE SOLAR, INC  TITLE MNPV16 REV B DISCO 4X FINAL ASSSY			
		CHECKED					
		QA					
		MFG					
MATERIAL:	STANDARDS:	APPROVED		SIZE B	PROJECT: MNPV16 DISCO 4X	DWG NO MNPV16 REV B DISCO 4X FINAL ASSSY	REV B
FINISH:							
PROCESS:							
				E-FILE:MNPV16 REV B DISCO 4X FINAL ASSSY.iam			SHEET 2 OF 5



REVISION HISTORY			
REV.	DESCRIPTION OF CHANGE	DATE	SIGN

ALL TOLERANCES, UNLESS OTHERWISE STATED: x.xxx= +/-0.005" x.xx= +/-0.01" x.x= +/-0.05" ALL ANGLES = +/- 1° UNLESS OTHERWISE STATED		DRAWN Bob Q	12/28/2011	MIDNITE SOLAR, INC			
		CHECKED					
		QA		TITLE MNPV16 REV B DISCO 4X FINAL ASSSY			
		MFG					
MATERIAL:	STANDARDS:	APPROVED		SIZE B	PROJECT: MNPV16 DISCO 4X	DWG NO MNPV16 REV B DISCO 4X FINAL ASSSY	REV B
FINISH:							
PROCESS:				E-FILE:MNPV16 REV B DISCO 4X FINAL ASSSY.iam		SHEET 3 OF 5	

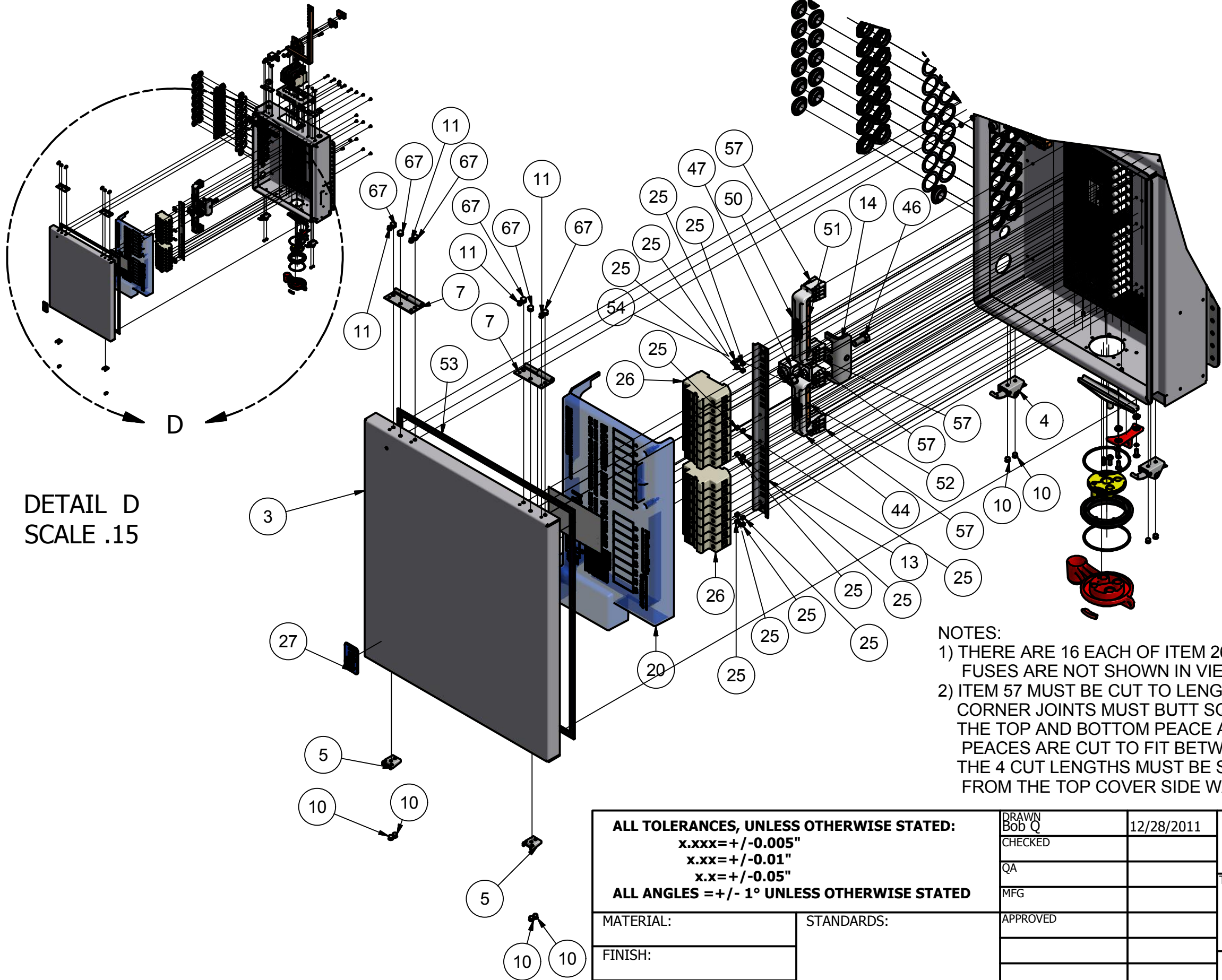


REVISION HISTORY			
REV.	DESCRIPTION OF CHANGE	DATE	SIGN

DETAIL C
SCALE .4

ALL TOLERANCES, UNLESS OTHERWISE STATED: x.xxx= +/--0.005" x.xx= +/--0.01" x.x= +/--0.05" ALL ANGLES =+/- 1° UNLESS OTHERWISE STATED		DRAWN Bob Q	12/28/2011	MIDNITE SOLAR, INC			
		CHECKED					
		QA		TITLE MNPV16 REV B DISCO 4X FINAL ASSSY			
		MFG					
MATERIAL:	STANDARDS:	APPROVED		SIZE B	PROJECT: MNPV16 DISCO 4X	DWG NO MNPV16 REV B DISCO 4X FINAL ASSSY	REV B
FINISH:				E-FILE:MNPV16 REV B DISCO 4X FINAL ASSSY.iam			SHEET 4 OF 5
PROCESS:							

REVISION HISTORY			
REV.	DESCRIPTION OF CHANGE	DATE	SIGN



DETAIL D
SCALE .15

- NOTES:
- 1) THERE ARE 16 EACH OF ITEM 26 AND FUSES (ITEM 42), FUSES ARE NOT SHOWN IN VIEW.
 - 2) ITEM 57 MUST BE CUT TO LENGTH AND ADHERED TO THE TOP COVER. CORNER JOINTS MUST BUTT SQUARELY TO PREVENT WATER LEAKS. THE TOP AND BOTTOM PEACE ARE CUT FULL LENGTH AND THE SIDE PEACES ARE CUT TO FIT BETWEEN THEM. THE 4 CUT LENGTHS MUST BE SPACED .22" IN FROM THE TOP COVER SIDE WALLS.

ALL TOLERANCES, UNLESS OTHERWISE STATED: x.xxx=+/-0.005" x.xx=+/-0.01" x.x=+/-0.05" ALL ANGLES =+/- 1° UNLESS OTHERWISE STATED		DRAWN Bob Q	12/28/2011	MIDNITE SOLAR, INC 			
		CHECKED					
		QA		TITLE MNPV16 REV B DISCO 4X FINAL ASSSY			
		MFG					
MATERIAL:	STANDARDS:	APPROVED		SIZE B	PROJECT: MNPV16 DISCO 4X	DWG NO MNPV16 REV B DISCO 4X FINAL ASSSY	REV B
FINISH:							
PROCESS:							
				E-FILE:MNPV16 REV B DISCO 4X FINAL ASSSY.iam		SHEET 5 OF 5	