

CATERPILLAR SR4

5TA / SEBP2015

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7E-4300 CHART-METER PANEL

7E4300 CHART-METER PANEL-PART 1 OF 5 GENERATOR MOUNTED

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Parts list rows are not synced on this VPS for SEBP2015/SEBP20150001 yet.					

7E-4300 CHART-METER PANEL

7E4300 CHART-METER PANEL-PART 2 OF 5 GENERATOR MOUNTED

Drawing 1 of 1

III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER.

- 1

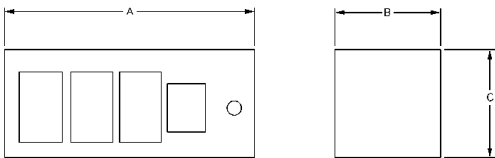
THE FIRST CHARACTER OF THE MODEL NUMBER IS A "G" INDICATING THAT THIS IS A GENERATOR MOUNTED METER PANEL.
- 2

THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE GENERATOR FRAME SIZE AND PANEL TYPE. THE FRAME SIZE DETERMINES THE PHYSICAL DIMENSIONS OF THE METER PANEL. SEE TABLE 1 AND FIGURE 1.
- GBC3BX5

TABLE 1

	PANEL TYPE	GENERATOR FRAME SIZE	PANEL DIMENSIONS			BASE PART NO.	ENCLOSURE PART NO.	LENGTH OF 7W-9991
			A	B	C			
A	STANDARD	360	603.25	304.8	127	116-9602	116-9601	595 MM
B	STANDARD	440/580 680/800(SR4) 690/820(SR4B)	698.5	304.8	127	113-0848	113-0847	690 MM

FIGURE 1



- 3
- THE THIRD CHARACTER OF THE MODEL NUMBER SPECIFIES THE ENGINE GENERATOR SET MODEL ON WHICH THE PANEL WILL BE INSTALLED.

MODEL GBC3BX5

PACKAGE GENERATOR SET	CHARACTER
3208	A
3304	B
3306	C
3406	D
3408	E
3412	F
3508	G
3512	J
3516	L

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7E-4300 CHART-METER PANEL

7E4300 CHART-METER PANEL-PART 3 OF 5 GENERATOR MOUNTED

Drawing 1 of 1

4 — THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE VOLTMETER.

MODEL GBC3BX5

	GEN OPERATING VOLTAGE	AC VOLTMETER			FREQUENCY METER RESISTOR	
		QTY	SCALE	PART NO.	QTY	PART NO.
2	0-240 VAC	1	0-300 VAC	4W-8644	—	NOT REQUIRED
3	241-480 VAC	1	0-600 VAC	4W-8645	1	7E-6496
4	481-600 VAC	1	0-750 VAC	7W-6969	1	7C-4561

5 — THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AMMETER AND CURRENT TRANSFORMERS, BASED ON GENERATOR OUTPUT VOLTAGE AND KILOWATT RATING SHOWN IN TABLES BELOW

MODEL GBC3BX5

	200VOLTS	208VOLTS	240VOLTS	300VOLTS	380VOLTS	400VOLTS	416VOLTS	480VOLTS	600VOLTS
C	17-25 KW	18-24 KW	21-31 KW	26-35 KW	33-45 KW	35-47 KW	36-49 KW	43-56 KW	52-71 KW
D	26-34	25-34	32-42	36-53	46-66	48-71	50-73	57-89	72-107
E	35-47	35-48	43-56	54-70	67-89	72-94	74-97	86-113	108-141
F	47-71	49-73	57-89	71-106	90-134	95-141	98-146	114-169	142-212
G	72-94	74-98	86-113	107-141	135-179	142-188	147-195	170-226	213-282
H	95-141	99-147	114-169	142-212	180-268	189-282	196-293	227-339	283-423
J	142-188	148-196	170-226	213-282	269-358	283-353	359-447	340-452	424-565
K	189-235	197-245	227-282	283-353	359-447	377-471	392-489	453-565	566-706
L	236-282	246-294	283-339	354-424	445-537	472-565	490-588	566-678	707-848
M	283-353	295-367	340-423	425-530	538-671	566-706	589-734	679-848	849-1060
N	354-471	368-489	424-565	531-706	672-895	707-942	735-979	849-1131	1061-1414
P	472-631	490-631	566-706	707-883	896-1119	943-1178	980-1225	1132-1413	1415-1766
R	632-707	632-735	707-848	884-1060	1120-1343	1178-1414	1226-1470	1414-1696	1767-2120
S	708-943	736-980	849-1131	1061-1414	1344-1791	1415-1885	1471-1960	1670-2262	2121-2827

	AMMETER (TRANSFORMER RATED)			CURRENT TRANSFORMERS			
	QTY	SCALE	PART NO.	ROUND RATIO	SQUARE RATIO	SQUARE (SR4B) RATIO	PART NO.
C	1	0-100 AMPS	4W-8632	3	100:5	5N-5429	—
D	1	0-150 AMPS	4W-8633	3	150:5	4W-8102	—
E	1	0-200 AMPS	4W-8634	3	200:5	5N-5430	—
F	1	0-300 AMPS	4W-8635	3	300:5	5N-5431	—
G	1	0-400 AMPS	4W-8636	3	400:5	5N-5432	—
H	1	0-600 AMPS	4W-8637	3	600:5	5N-5433	600:5
J	1	0-800 AMPS	4W-8638	3	800:5	5N-5434	800:5
K	1	0-1000 AMPS	4W-8639	3	1000:5	7W-8839	1000:5
L	1	0-1200 AMPS	4W-8640	3	1200:5	7W-8838	1200:5
M	1	0-1500 AMPS	4W-8641	3	1500:5	7W-8837	1500:5
N	1	0-2000 AMPS	4W-8642	3	2000:5	7W-8836	2000:5
P	1	0-2500 AMPS	4W-8643	3	2500:5	7W-8835	2500:5
R	1	0-3000 AMPS	7W-2218	3	3000:5	7W-6598	3000:5
S	1	0-4000 AMPS	7W-5658	3	4000:5	7W-7805	4000:5
T	—	—	—	—	—	—	4000:5
U	—	—	—	—	—	—	5000:5

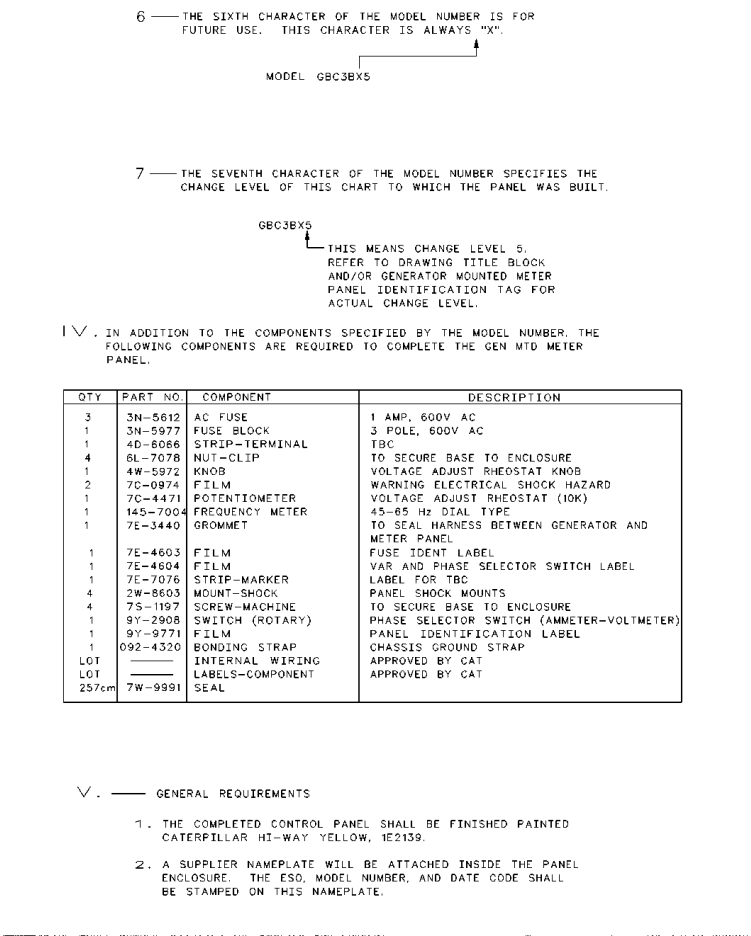
NOTE:SQUARE CURRENT TRANSFORMERS TO BE SUPPLIED IF 3RD CHARACTER OF METER PANEL MODEL NUMBER IS E THROUGH L (3408, 3412 AND 3500 GENSET ENGINES OR PACKAGE GENERATOR SETS). ROUND CURRENT TRANSFORMERS TO BE SUPPLIED WITH ALL OTHER ENGINE SALES MODELS.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2015/SEBP20150003 yet.					

7E-4300 CHART-METER PANEL

7E4300 CHART-METER PANEL-PART 4 OF 5 GENERATOR MOUNTED

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
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7E-4300 CHART-METER PANEL

7E4300 CHART-METER PANEL-PART 5 OF 5 GENERATOR MOUNTED

Drawing 1 of 1

3. STANDARD HARDWARE FASTENERS USED FOR SHEETMETAL TO SHEETMETAL SECUREMENT SHALL BE TORQUED TO THE VALUES GIVEN BELOW. IN ADDITION TYPE B LOCTITE SEALANT AS SPECIFIED BY 1E2200 SHALL BE USED.

SCREW SIZE (INCH)	STANDARD HARDWARE			
	NEWTON-METERS		FOOT-LBS	
	MIN	MAX	MIN	MAX
4-40	0.37	0.53	0.3	0.4
6-32	0.69	0.98	0.5	0.7
8-32	1.41	2.01	1.0	1.5
10-32	2.35	3.36	1.7	2.5
1/4-20	5.70	8.14	4.2	6.0
5/16-18	10.44	14.91	7.7	11.0
3/8-16	18.03	25.76	13.3	19.0
7/16-14	28.48	40.68	21.3	30.0
1/2-13	42.71	61.02	31.5	45.0
9/16-12	62.65	89.50	46.2	66.0
5/8-11	88.28	126.11	65.1	93.0
3/4-10	142.38	203.40	105.0	150.0
7/8-9	191.74	273.91	141.4	202.0

4. METER PHASE SELECTOR SWITCH POSITION VS. PHASE

POSITION	OFF	1	2	3
AMMETER READING	OFF	PHASE 1	PHASE 2	PHASE 3
VOLTMETER READING	OFF	PH 1 TO 2	PH 2 TO 3	PH 3 TO 1

5. HARDWARE FASTENERS USED FOR MOUNTING INTERNAL COMPONENTS SHALL BE PLATED AS SPECIFIED BY 1E0397B, 1E1675D, 1E1675E, OR 1E1675F.

- ✓ 1. — CATERPILLAR REFERENCE DRAWINGS
7E-4301 CHANGE 04 INSTRUCTIONS
7E-4302 PANEL ARRANGEMENT
7E-7078 MOUNTING GP

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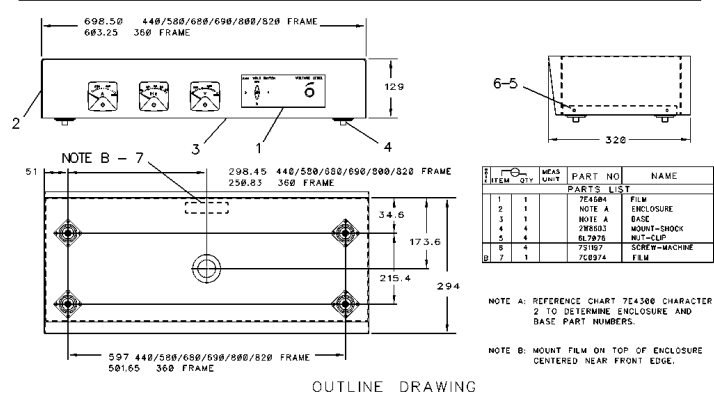
7E-4301 INSTRUCTIONS-METER PANEL

7E4301 INSTRUCTIONS-METER PANEL-PART 1 OF 5 GENERATOR MOUNTED

Drawing 1 of 1

A	AMPS	—	PRINTED CIRCUIT BOARD CIRCUITRY
AM	AC AMMETER		SHIELDED WIRE
AVS	AMMETER-VOLTMETER PHASE SELECTOR SWITCH	---	ENGINE WIRING JUMPER
BATT	BATTERY		GENERATOR FRAME (CHASSIS) GND
C	COMMON		EARTH GROUND
CT	CURRENT TRANSFORMER	---	MANUALLY OPERATED CONTROL
F	FUSE	└---	OPERATED BY TURNING
FB	FUSE BLOCK		FUSE
FM	FREQUENCY METER		FUSE
FMR	FREQUENCY METER RESISTOR		ADJUSTABLE LO-HI
Hz	FREQUENCY (CYCLES PER SECOND)		AC VOLTS
L	LOAD LEADS		ON,RUN
T	GENERATOR LINE LEADS		OFF,STOP
V	VOLTS		DC VOLTS
VM	AC VOLTMETER		CONNECTOR (PLUG & SOCKET)
VAR	VOLTAGE ADJUST RHEOSTAT		RESISTOR
	ENGINE GENERATOR TERM. PT.		CIRCUIT BREAKER
	METER PANEL TERM. PT.		CIRCUIT BREAKER
	VOLTAGE REGULATOR TERM. PT.		
—	STANDARD WIRING		
---	OPTIONAL WIRING		
---	REQUIRED CUSTOMER WIRING		

ABBREVIATIONS AND SYMBOLS



Ref. Part number Description

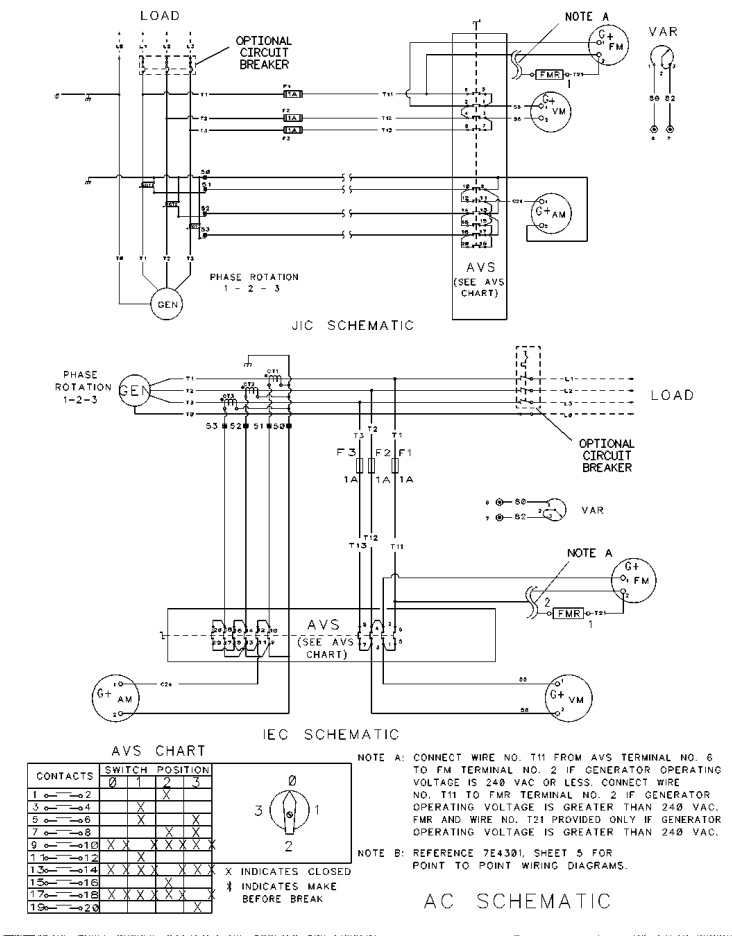
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7E-4301 INSTRUCTIONS-METER PANEL

7E4301 INSTRUCTIONS-METER PANEL-PART 2 OF 5 GENERATOR MOUNTED

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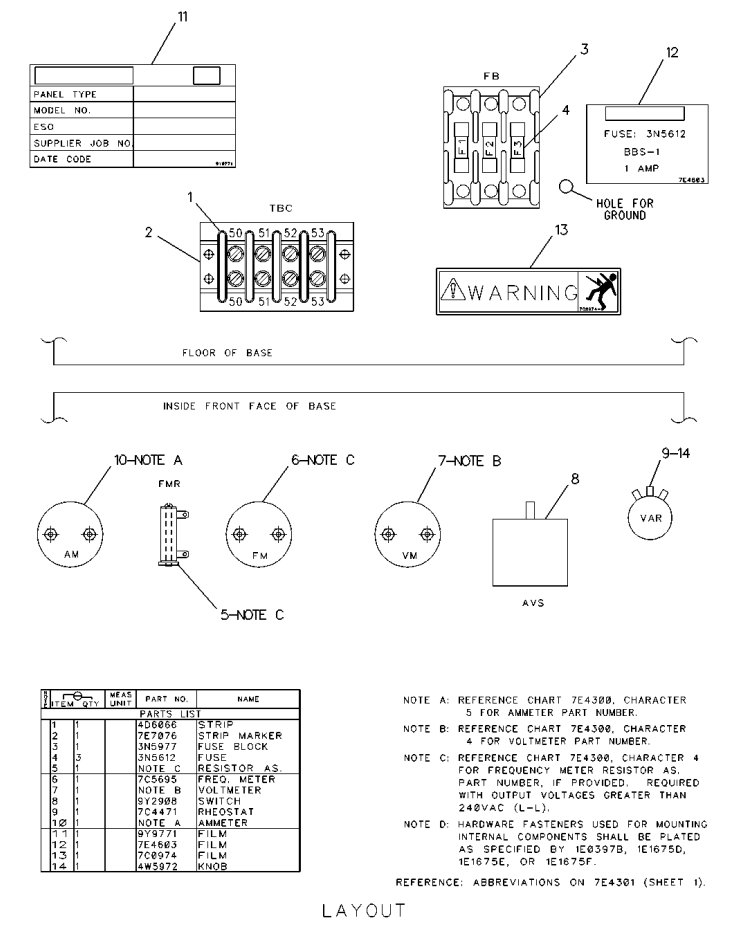


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7E-4301 INSTRUCTIONS-METER PANEL

7E4301 INSTRUCTIONS-METER PANEL-PART 3 OF 5 GENERATOR MOUNTED

Drawing 1 of 1



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7E-4301 INSTRUCTIONS-METER PANEL

7E4301 INSTRUCTIONS-METER PANEL-PART 4 OF 5 GENERATOR MOUNTED

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			.		page
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