

CATERPILLAR SR4

3WF / SEBP2300

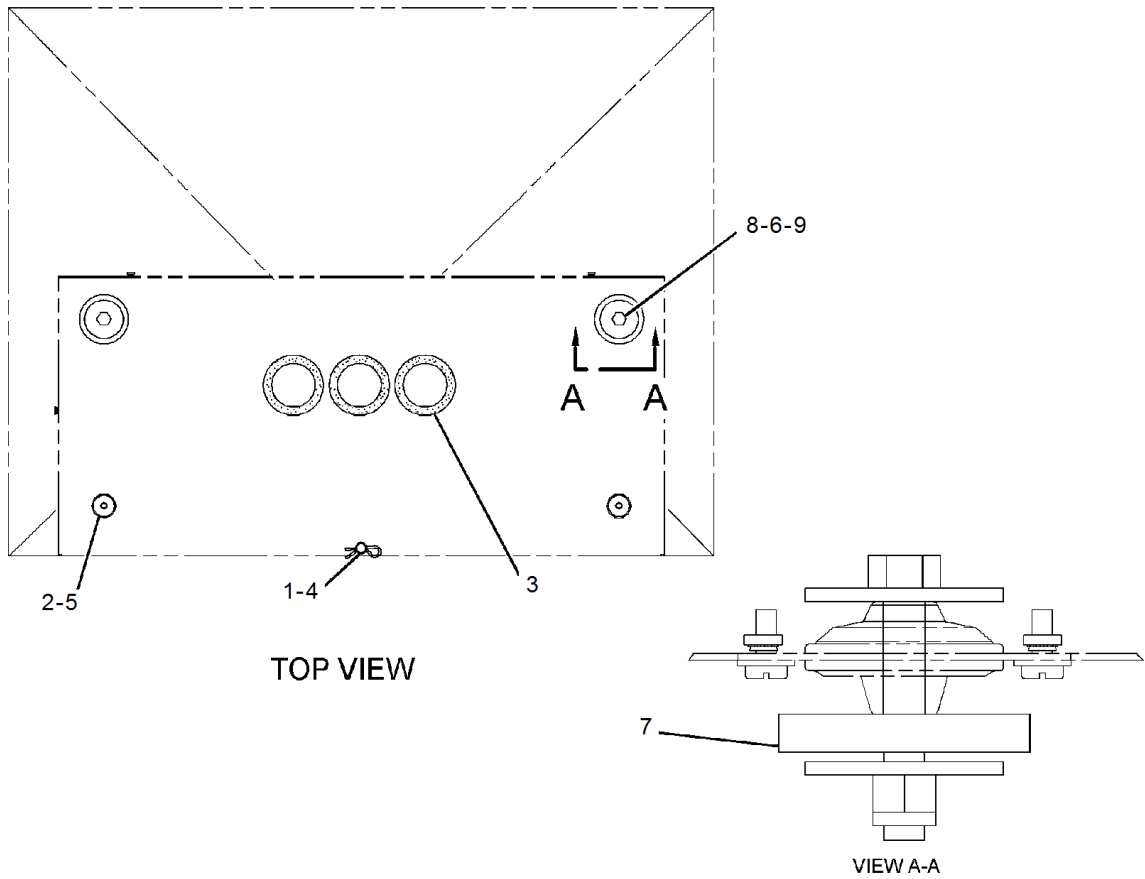
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104-4704 MOUNTING GP-CONTROL PANEL -EMCP II

104-4704 MOUNTING GP-CONTROL PANEL -EMCP II S/N 5UA2140-UP; 6AA575-UP; 3EF604-UP; 3WF610-UP; 6FA3000-UP; 6MA709-UP; 6NA619-UP; 6PA535-UP; 6SA537-UP; 2ED420-UP; 5TD601-UP; 8FD602-UP AN ATTACHMENT

Drawing 1 of 1



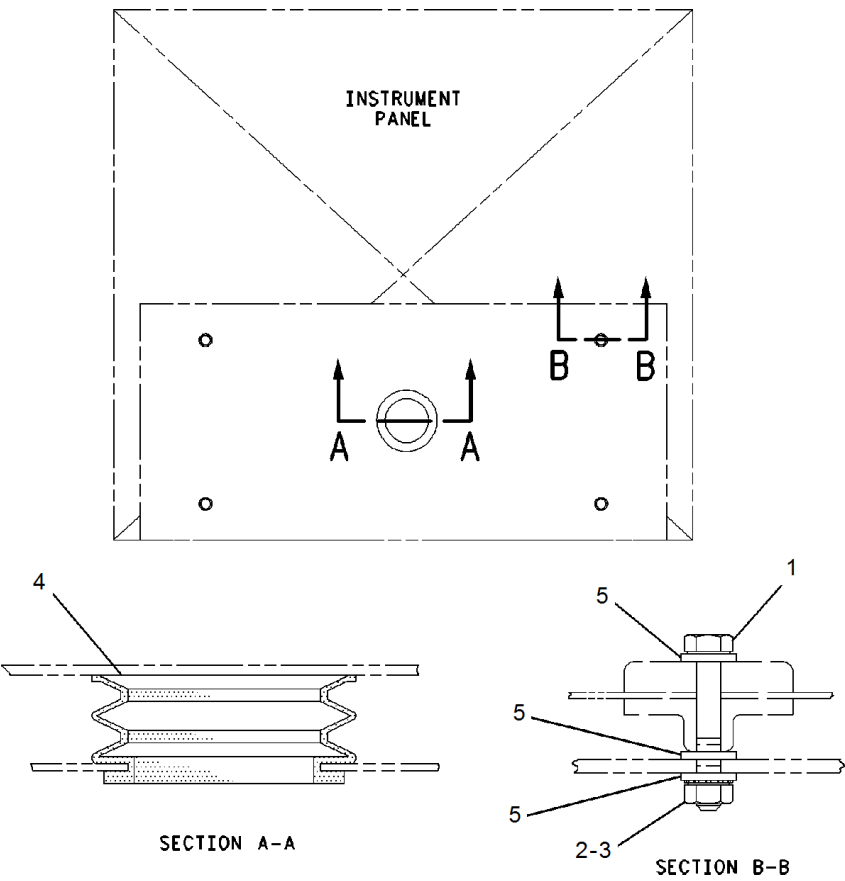
Ref.	Part number	Description	Qty	Code	Group page
1	5P-0372	LOCK PIN	1	B	
2	6V-7646	WASHER-HARD (7.2X25X2-MM THK)	2		
3	7C-2675	SEAL-BELLOWS	3		
4	1B-0676	PIN	1	B	
5	3E-9865	LOCKNUT (1/4-20-THD)	2		
6	3K-6060	LOCKNUT (3/8-16-THD)	2		
7	5S-3552	PLATE	2		
8	8T-4226	WASHER-PLATED (10.5X45X3-MM THK)	4		
9	8T-9377	BOLT (3/8-16X2.25-IN)	2		

CAT codes: B.

7E-7078 MOUNTING GP-INSTRUMENT PANEL

7E-7078 MOUNTING GP-INSTRUMENT PANEL S/N 5UA2140-UP; 6AA575-UP; 8FD602-UP; 3EF604-UP; 3WF610-UP; 6FA3000-UP; 6KA524-UP; 6MA709-UP; 6NA619-UP; 6PA535-UP; 6SA537-UP; 2ED420-UP; 5TD601-UP FOR USAGE REFER TO CHART 7E-4300 AN ATTACHMENT

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	7X-3178	BOLT (1/4-20X1.625-IN)	4		
2	1H-3338	LOCKWASHER (EXTERNAL TOOTH)	4		
3	6V-8185	NUT (1/4-20-THD)	4		
4	7C-2675	SEAL-BELLOWS	1		
5	8T-4205	WASHER-HARD (7.2X14.5X2-MM THK)	12		

7E-4300 CHART-INSTRUMENT PANEL

7E-4300 CHART-INSTRUMENT PANEL S/N 5UA2140-UP; 6AA575-UP; 3EF604-UP; 3WF610-UP; 6FA3000-UP; 6KA524-UP; 6MA709-UP; 6NA619-UP; 6PA535-UP; 6SA537-UP; 5TD601-UP; 8FD602-UP GENERATOR MOUNTED AN ATTACHMENT

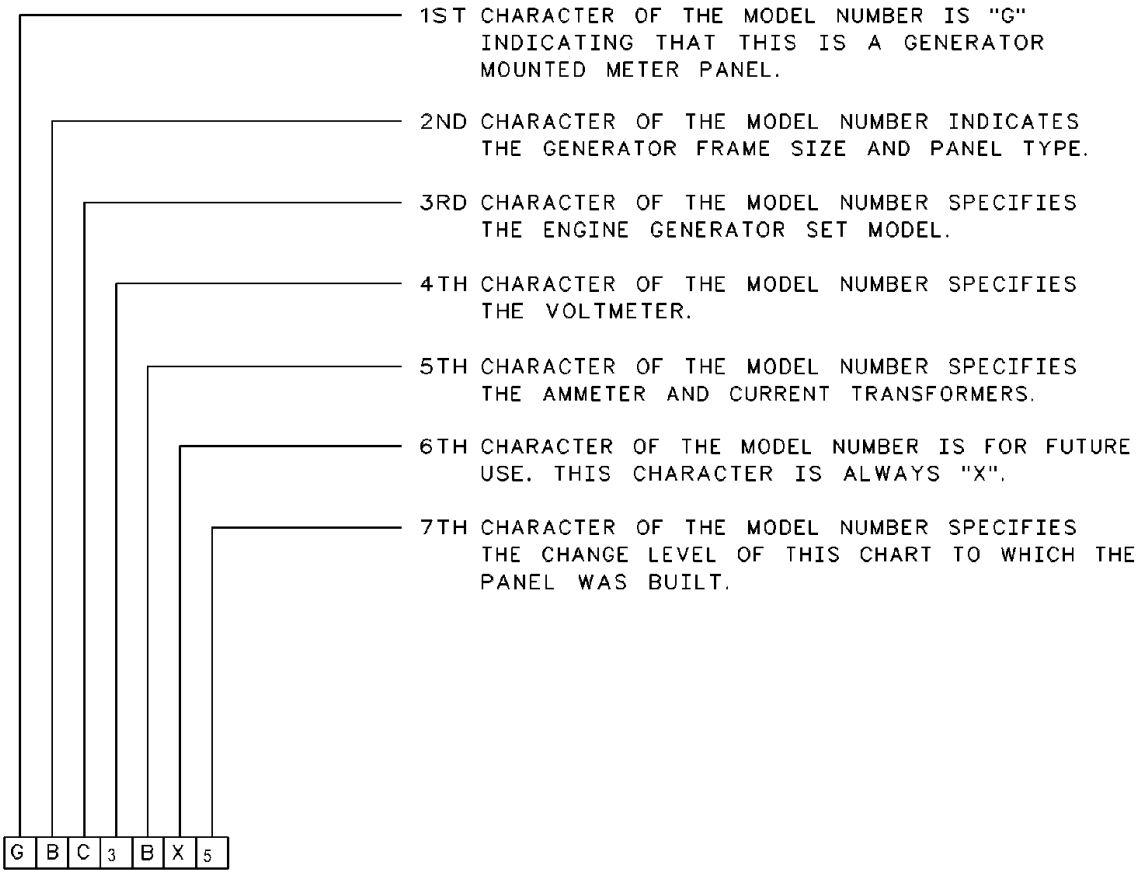
Drawing 1 of 5

I . SCOPE

THIS CHART IS REQUIRED TO ENABLE THE PROPER SELECTION AND ORDERING OF A GENERATOR MOUNTED METER PANEL. THIS CHART DEFINES THE METER PANEL DESIGN AND BILL OF MATERIAL BY ESTABLISHING A MULTI-CHARACTER MODEL NUMBER. ALL SEVEN CHARACTERS OF THE MODEL NUMBER MUST BE SPECIFIED.

II . MODEL NUMBER SELECTION

THE MODEL NUMBER OF THE METER PANEL IS ESTABLISHED BASED ON PANEL OPTIONS AND GENERATOR RATINGS (EXAMPLE: GBC3BX5). THE MODEL NUMBER IS DEVELOPED ONE CHARACTER AT A TIME BY FOLLOWING THE INSTRUCTIONS ON SHEETS 2 THRU 4. A GENERAL DEFINITION OF THE MODEL NUMBER CHARACTERS APPEARS BELOW:



7E-4300 CHART-INSTRUMENT PANEL (continued)

Drawing 2 of 5

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

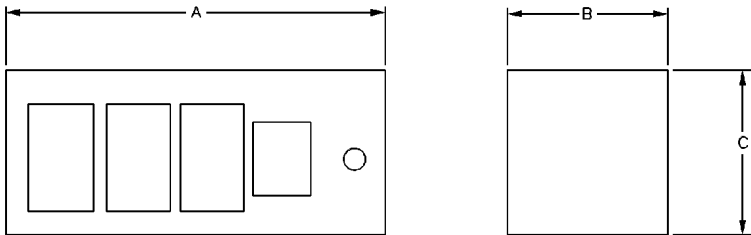
THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE GENERATOR FRAME SIZE AND PANEL TYPE. THE FRAME SIZE DETERMINES THE PHYSICAL DIMENSIONS OF THE METER PANEL, SEE TABLE 1 AND FIGURE 1.

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

7E-4300 CHART-INSTRUMENT PANEL (continued)

Drawing 3 of 5

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	481-800 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

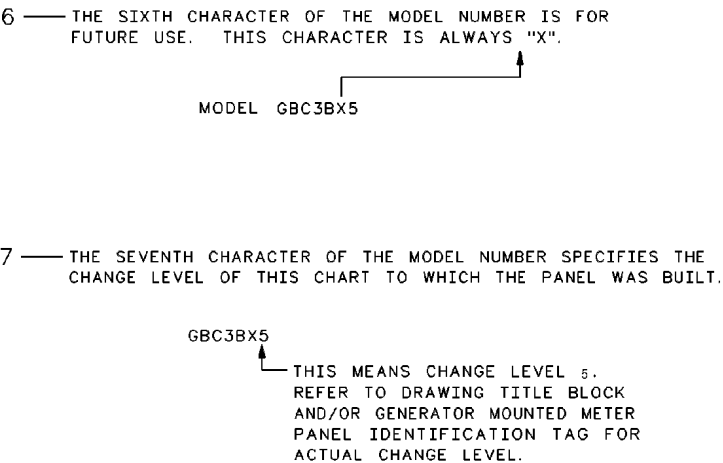
	200VOLTS	208VOLTS	240VOLTS	300VOLTS	380VOLTS	400VOLTS	416VOLTS	480VOLTS	600VOLTS
C	17-25 KW	18-24 KW	21-31 KW	26-35 KW	33-45 KW	35-47 KW	36-49 KW	43-56 KW	52-71 KW
D	26-34	25-34	32-42	36-53	46-66	48-71	50-73	57-89	72-107
E	35-47	35-48	43-56	54-70	67-89	72-94	74-97	86-113	108-141
F	471-7	49-73	57-89	71-106	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	382-489	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	295-387	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	886-1119	943-1178	980-1225	1132-1413	1415-1766
R	632-707	632-735	707-848	884-1060	1120-1343	1289-1414	12-1470	1414-1696	1767-2120
S	708-843	736-980	849-1131	1061-1414	1344-1719	1415-1885	1471-1960	1670-2262	2121-2827

	AMMETER (TRANSFORMER RATED)			CURRENT TRANSFORMERS					
	QTY	SCALE	PART NO.	ROUND		SQUARE		SQUARE (SR4B)	
				QTY	RATIO PART NO.	RATIO PART NO.	RATIO PART NO.	RATIO PART NO.	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 6I-1952	—	—	—
J	1	0-800 AMPS	4W-8638	3	800 :5 5N-5434	800 :5 7E-1112	—	—	—
K	1	0-1000 AMPS	4W-8639	3	1000 :5 7W-8839	1000 :5 7E-1113	—	—	—
L	1	0-1200 AMPS	4W-8640	3	1200 :5 7W-8838	1200 :5 7E-1114	—	—	—
M	1	0-1500 AMPS	4W-8641	3	1500 :5 7W-8837	1500 :5 7E-1115	1500 :5 122 -6587	—	—
N	1	0-2000 AMPS	4W-8642	3	2000 :5 7W-8836	2000 :5 7E-1116	2000 :5 122 -6588	—	—
P	1	0-2500 AMPS	4W-8643	3	2500 :5 7W-8835	2500 :5 7E-1117	2500 :5 122 -2589	—	—
R	1	0-3000 AMPS	7W-2218	3	3000 :5 7W-6598	3000 :5 7E-1118	3000 :5 122 -6590	—	—
S	1	0-4000 AMPS	7W-5858	3	4000 :5 7W-7805	4000 :5 7E-1119	3500 :5 128 -0115	—	—
T				3	—	—	4000 :5 122 -6591	—	—
U				3	—	—	5000 :5 117 -9724	—	—

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.

7E-4300 CHART-INSTRUMENT PANEL (continued)

Drawing 4 of 5



1. IN ADDITION TO THE COMPONENTS SPECIFIED BY THE MODEL NUMBER, THE FOLLOWING COMPONENTS ARE REQUIRED TO COMPLETE THE GEN MTD METER PANEL.

QTY	PART NO.	COMPONENT	DESCRIPTION
3	3N-5612	AC FUSE	1 AMP, 600V AC
1	3N-5977	FUSE BLOCK	3 POLE, 600V AC
1	4D-6066	STRIP-TERMINAL	TBC
4	6L-7078	NUT-CLIP	TO SECURE BASE TO ENCLOSURE
1	4W-5972	KNOB	VOLTAGE ADJUST RHEOSTAT KNOB
2	7C-0974	FILM	WARNING ELECTRICAL SHOCK HAZARD
1	7C-4471	POTENTIOMETER	VOLTAGE ADJUST RHEOSTAT (10K)
145	1 -700	FREQUENCY METER	45 -65 Hz DIAL TYPE
1	7E-3440	GROMMET	TO SEAL HARNESS BETWEEN GENERATOR AND METER PANEL
1	7E-4603	FILM	FUSE IDENT LABEL
1	7E-4604	FILM	VAR AND PHASE SELECTOR SWITCH LABEL
1	7E-7076	STRIP-MARKER	LABEL FOR TBC
4	2W-8603	MOUNT-SHOCK	PANEL SHOCK MOUNTS
4	75 -1197	SCREW-MACHINE	TO SECURE BASE TO ENCLOSURE
1	9Y-2908	SWITCH (ROTARY)	PHASE SELECTOR SWITCH (AMMETER-VOLTMETER)
1	9Y-9771	FILM	PANEL IDENTIFICATION LABEL
1	092 -4320	BONDING STRAP	CHASSIS GROUND STRAP
LOT	_____	INTERNAL WIRING	APPROVED BY CAT
LOT	_____	LABELS-COMPONENT	APPROVED BY CAT
257cm	7W-9991	SEAL	

1. GENERAL REQUIREMENTS

1. THE COMPLETED CONTROL PANEL SHALL BE FINISHED PAINTED CATERPILLAR HI-WAY YELLOW, 1E2139.
2. A SUPPLIER NAMEPLATE WILL BE ATTACHED INSIDE THE PANEL ENCLOSURE. THE ESO, MODEL NUMBER, AND DATE CODE SHALL BE STAMPED ON THIS NAMEPLATE.

7E-4300 CHART-INSTRUMENT PANEL (continued)

Drawing 5 of 5

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	1.4 1	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

Ref.	Part number	Description	Qty	Code	Group page
		REFER TO ILLUSTRATION	.		

4P-3317 KIT-INSTALLATION -EXCITER

4P-3317 KIT-INSTALLATION -EXCITER S/N 5UA2140-UP; 6AA575-UP; 3WF610-UP; 6FA3000-UP; 6KA524-UP; 6MA709-UP; 6NA619-UP; 6PA535-UP; 6SA537-UP; 5TD601-UP; 3EF604-UP CONTAINS STEPPED KEY AND KEY FIELD INSTALLATION

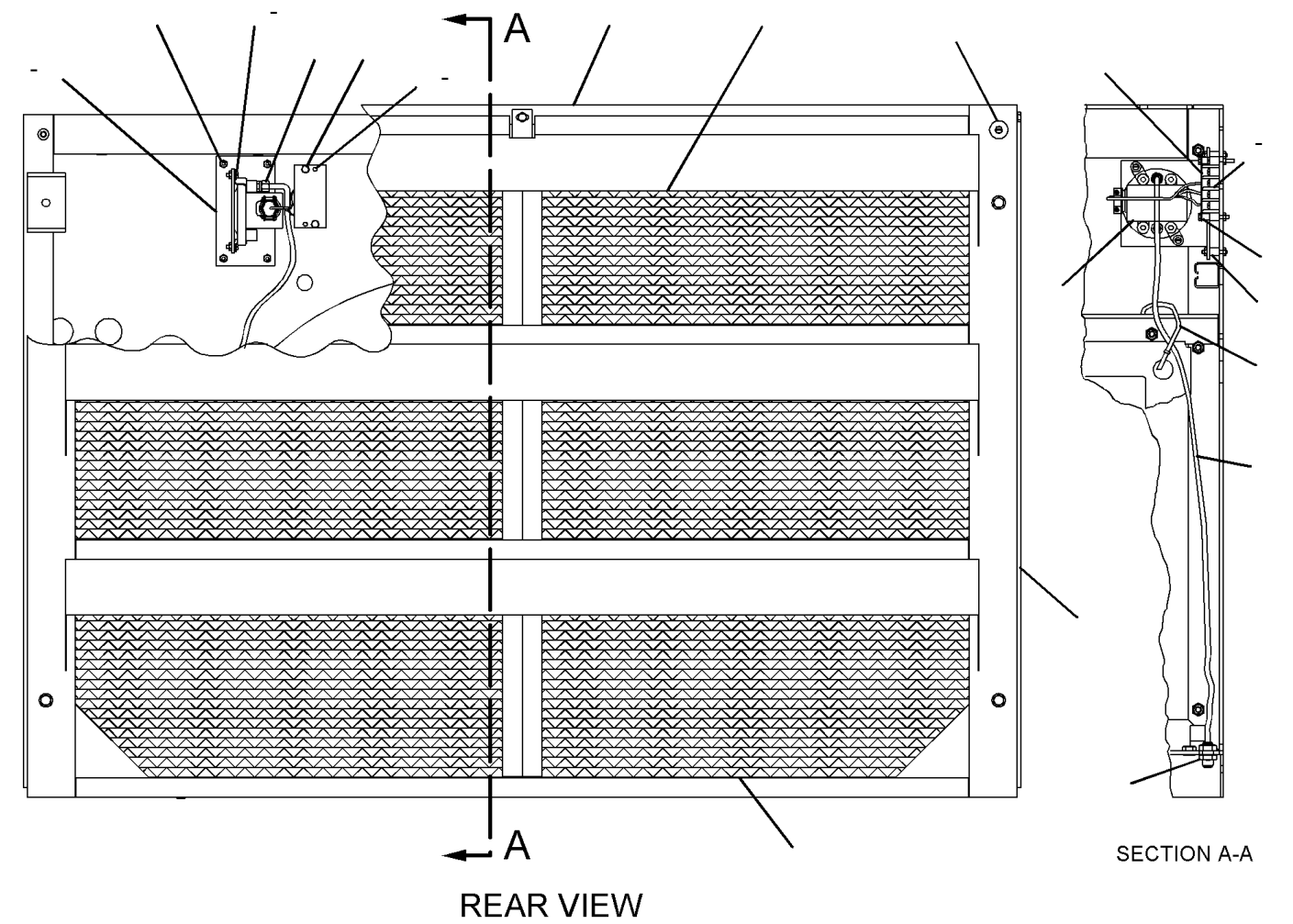
No separate drawing is provided in the current catalog card.

Ref.	Part number	Description	Qty	Code	Group
			.		page
(NO SERVICED PARTS)					

4P-8897 AIR FILTER GP-GENERATOR

4P-8897 AIR FILTER GP-GENERATOR S/N 6AA575-UP; 6SA537-UP; 2ED420-UP; 8FD602-UP; 3EF604-UP; 3WF610-UP
FOR USE WITH 800-FRAME AN ATTACHMENT

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	4P-9482	SWITCH AS-PRESSURE (AIR DIFFERENTIAL, GENERATOR)	1		
2	4W-3595	MOUNT	4		
3	7W-1380	TERMINAL	1		
4	7E-8356	SPACER (4.93X7.87X9.65-MM THK)	2		
5	4B-2043	NUT (8-32-THD)	12		
6	7S-1197	SCREW-MACHINE (8-32X0.5-IN)	2		
	4B-4863	WASHER (4.7X11X1.2-MM THK)	2		
7	1P-2086	BOLT-WASHER HEAD	2		
8	6V-7697	SCREW-MACHINE (8-32X1.25-IN)	2		
9	6I-3592	CONNECTOR AS	1		
10	4P-8767	SWITCH-PRESSURE (AIR DIFFERENTIAL, GENERATOR)	1		
11	4P-9481	BRACKET	1		

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