

CATERPILLAR SR4

9DR / SEBP2533

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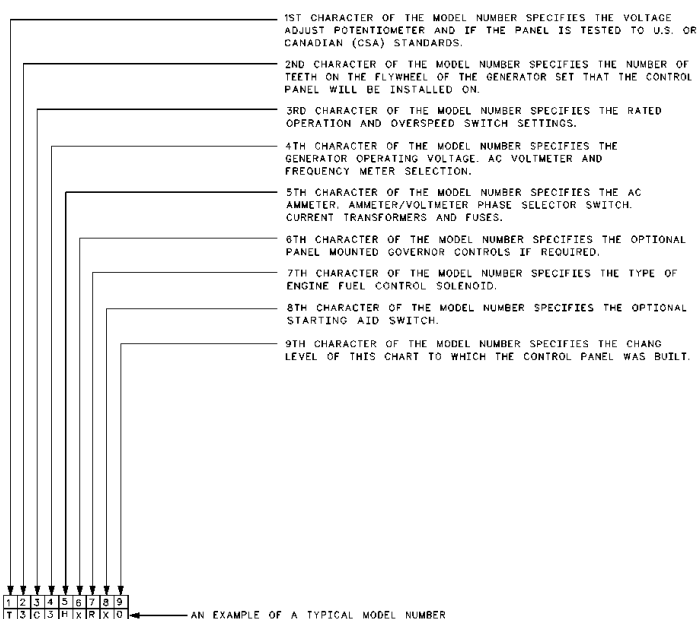
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130-3786 CHART-CONTROL PANEL

1303786 CHART-CONTROL PANEL-PART 1 OF 6 GENERATOR MOUNTED-ANALOG

Drawing 1 of 1

- THE FOLLOWING IS THE TOTAL COMPONENT CONSIST OF THIS CHART. REFER TO THE REMAINDER OF THE CHART TO DETERMINE EXACTLY WHICH COMBINATION OF COMPONENTS IS USED FOR SPECIFIC CONTROL PANEL MODEL NUMBERS.
- SCOPE
 - THIS CHART IS REQUIRED TO ENABLE THE PROPER SELECTION AND ORDERING OF A CONTROL PANEL. THE CONTROL PANEL WILL BE TERMINAL BOX MOUNTED ON THE SIDE OF CATERPILLAR INC. STANDBY GENERATOR SET PACKAGES. THE CHART DEFINES THE CONTROL PANEL BILL OF MATERIAL BY ESTABLISHING A MULTI-CHARACTER MODEL NUMBER.
- MODEL NUMBER
 - THE MODEL NUMBER OF THE CONTROL PANEL SYSTEM IS ESTABLISHED BASED ON PANEL OPTIONS AND GENERATOR RATINGS. THE MODEL NUMBER IS DEVELOPED ONE CHARACTER AT A TIME BY FOLLOWING THE INSTRUCTIONS ON THIS AND PRECEDING SHEETS.



Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2533/SEBP25330001 yet.					

130-3786 CHART-CONTROL PANEL

1303786 CHART-CONTROL PANEL-PART 2 OF 6 GENERATOR MOUNTED-ANALOG

Drawing 1 of 1

1 THE FIRST CHARACTER OF THE MODEL NUMBER SPECIFIES THE VOLTAGE ADJUST POTENTIOMETER AND STATED THAT THE ELECTROMECHANICAL PANEL SHALL BE TESTED TO EITHER U.S. OR CANADIAN (CSA) STANDARDS.CSA INCLUDES 3L-0369 DIELECTRIC TEST.

MODEL T3C3HXRX0

		VOLT ADJ POT	KNOB	SEAL
T	STANDARD CONTROL PANEL	129-0308	4W-5972	7C-4550
C	CANADIAN STANDARDS (CSA) TESTED PER 3L0369 DIELECTRIC SPEC AND () FILM	7C-4471	4W-5972	7C-4550

2 THE SECOND CHARACTER OF THE MODEL NUMBER SPECIFIES THE NUMBER OF FLYWHEEL TEETH FOR WHICH THE CONTROL PANEL WILL BE BUILT FOR.

MODEL T3C3HXRX0

	NO. OF FLYWHEEL TEETH	PACKAGE GENSET
3	113	3406 (NO. 1 FLYWHEEL HSG)
4	156	3306,3304

3 THE THIRD CHARACTER OF THE MODEL NUMBER SPECIFIES THE RATED SPEED AND OVERSPEED SWITCH SETTINGS FOR THE GENERATOR SET IN WHICH THE PANEL WILL BE BUILT FOR.

MODEL T3C3HXRX0

	RATED SPEED (RPM)	SPEED SWITCH SETTING (RPM)
		OVERSPEED
C	1500	REF 3L-0332
D	1800	REF 3L-0332

4 THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES GENERATOR OPERATING VOLTAGE AND AC VOLTMETER AND FREQUENCY METER SELECTIONS FOR THE CONTROL PANEL

MODEL T3C3HXRX0

	GEN OPERATING VOLTAGE L-L	AC VOLTMETER P/N	SCALE	FREQUENCY METER P/N	F.M. RESISTOR P/N
2	0-240 VAC	4W-8644	0-300	7C-5695	---
3	241-480 VAC	4W-8645	0-600	7C-5695	7E-6496
4	481-600 VAC	7W-8969	0-750	7C-5695	7C-4561

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130-3786 CHART-CONTROL PANEL

1303786 CHART-CONTROL PANEL-PART 3 OF 6 GENERATOR MOUNTED-ANALOG

Drawing 1 of 1

5 THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AMMETER/VOLTMETER SELECTOR SWITCH, AC AMMETER AND CURRENT TRANSFORMERS SELECTION BASED ON GENERATOR OUTPUT AND POWER RATING.

MODEL T3C3HXR0

GENERATOR RATINGS AT VOLTAGES (L-L)									
	200 VAC	208 VAC	240 VAC	300 VAC	380 VAC	400 VAC	416 VAC	480 VAC	600 VAC
F	47-71	49-73	57-85	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	283-376	294-391	340-452	
K	189-235	197-245	227-282	283-353	359-447	377-471	392-489		
L	236-282	246-294	283-339	354-424					
M	283-353	295-367	340-423						
N	354-471	368-489							

AC AMMETER			CURRENT			AM/VM		AC FUSE & HOLDER				
(TRANSFORMER RATED)			TRANSFORMERS			SELECTOR SWITCH		FUSE		BLOCK		
QTY	SCALE	P/N	QTY	RATIO	P/N	QTY	P/N	QTY	P/N	QTY	P/N	
F	1	0-300	4W-8635	3	300:5	5N-5431	I	9Y-2908	3	7W-0482	1	3N-5977
G	1	0-400	4W-8636	3	400:5	5N-5432						
H	1	0-600	4W-8637	3	600:5	5N-5433						
J	1	0-800	4W-8638	3	800:5	5N-5434						
K	1	0-1000	4W-8639	3	1000:5	7W-8839						
L	1	0-1200	4W-8640	3	1200:5	7W-8838						
M	1	0-1500	4W-8641	3	1500:5	7W-8837						
N	1	0-2000	4W-8642	3	2000:5	7W-8836						

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					page
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130-3786 CHART-CONTROL PANEL

1303786 CHART-CONTROL PANEL-PART 4 OF 6 GENERATOR MOUNTED-ANALOG

Drawing 1 of 1

6 THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL MOUNTED GOVERNOR SWITCH OPTIONS IF REQUIRED.

MODEL T3C3HXR0

	GOVERNOR SWITCH	GOVERNOR TYPE
X	NONE	CAT HYDRA MECH
1	7N-8008	CAT HYDRA MECH PSG. 3161

7 THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF PANEL MOUNTED ENGINE FUEL SOLENOID CONTROLS.

MODEL T3C3HXR0

	SOLENOID TYPE	TIME DELAY RELAY P/N
R	ENERGIZED TO RUN(ETR)	NOT REQUIRED
	ENERGIZED TO SHUTOFF (ETSD)	4W-8471

8 THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE OPTIONAL STARTING AID SWITCH

MODEL T3C3HXR0

	QTY	STARTING AID SWITCH GP
X	1	NOT REQUIRED
S	1	9D-3721

9 THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE ENGINEERING CHANGE LEVEL.

MODEL T3C3HXR0

	CONTROL PANEL BUILT TO
0	ENGINEERING CHANGE LEVEL

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130-3786 CHART-CONTROL PANEL

1303786 CHART-CONTROL PANEL-PART 5 OF 6 GENERATOR MOUNTED-ANALOG

Drawing 1 of 1

IN ADDITION TO THE COMPONENTS SPECIFIED BY THE MODEL NUMBER,THE FOLLOWING COMPONENTS ARE REQUIRED TO COMPLETE THE CONTROL PANEL.

QTY	PART NO	COMPONENT	DESCRIPTION
1	4W-8734	BOARD AS	FOUR LIGHT FAULT BOARD
2	3N-5978	TIMER	ADJ. ON DELAY TIMER
1cm	6V-1075	TRACK	TIMER MOUNTING TRACK
1	9Y-2921	RELAY	RELAY SR1
2	3N-5714	RELAY	24VDC RELAY ENFR,AR
2	4W-8787	SOCKET	RELAY SOCKET
1	9X-8124	MAG SW	STARTER MOTOR MAGNETIC SWITCH
1	1N-9770	BREAKER	CIRCUIT BREAKER-STARTER PINION
4	2W-8603	MOUNT	PANEL SHOCK MOUNT
1	9Y-0901	SWITCH	ELECTRONIC SPEED SWITCH
1	3K-8782	FUSE	10 AMP, 32VDC FUSE
1	8M-0456	FUSE	20 AMP, 32VDC FUSE
20dm	5N-8359	CONDUIT	PLASTIC CONDUIT AND HARDWARE
1	4W-0483	GAGE	WATER TEMPERATURE GAGE
1	4W-2065	GAGE	OIL PRESSURE GAGE
1 LOT	-	WIRING	COMPONENT INTERCONNECT WIRING
1 LOT	-	LABELS	CAT APPROVED COMPONENT ID LABEL
1 LOT	-	WIREWAY	PLASTIC WIREWAY, CAT APPROVED. USE AS REQUIRED
1 LOT	-	SPIRAL WRAP	WIRE HARNESS WRAP, CAT APPROVED. USE AS REQUIRED.
2DM	5P-1275	WIRE	LOCK WIRE FOR SPEED SWITCH
1	8S-8158	SEAL	PLASTIC WIRE SEAL FOR SPEED SWITCH
1	9Y-9771	FILM	PANEL IDENTIFICATION NAMEPLATE
1	9Y-9781	FILM	20A DC FUSE REPLACEMENT INFORMATION LABEL
1	9Y-9782	FILM	10A DC FUSE REPLACEMENT INFORMATION LABEL
1	9Y-9783	FILM	2A DC FUSE REPLACEMENT INFORMATION LABEL
1	7C-5695	METER	FREQUENCY METER - 240V AC
1	9G-7641	SWITCH	STARTING KEY SWITCH
2	5N-9067	COLLAR	
2	5N-9072	CLIP	
1	4L-6470	STRIP	AC TERMINAL BOARD
1	4W-8228	MARKER	AC TERMINAL BOARD MARKER STRIP TBC
2	5N-9117	ADAPTER	
2	062-5338	LOCKNUT	
2	4W-8790	BLOCK	DC FUSE HOLDER
2	7C-6122	WASHER	
2	036-9433	WASHER	

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130-3786 CHART-CONTROL PANEL

1303786 CHART-CONTROL PANEL-PART 6 OF 6 GENERATOR MOUNTED-ANALOG

Drawing 1 of 1

GENERAL REQUIREMENTS

- 1. ALL CONTROL PANELS SHALL CONTAIN THE APPROPRIATE SPACE, WIRING, HOLES ETC. TO SUPPORT THE FIELD INSTALLATION OF ANY OPTION LISTED ON THIS CHART.
- 2. THE COMPLETED INSTRUMENT DOOR SHALL BE PAINTED FLAT BLACK.
- 3. A SUPPLIER NAMEPLATE WILL BE ATTACHED INSIDE THE PANEL. 130-3786 AND THE CONTROL PANEL MODEL NUMBER SHALL BE STAMPED ON THIS NAMEPLATE, ALONG WITH THE DATE CODE.
- 4. A COMPLETE SET OF DRAWINGS INCLUDING OUTLINE DRAWING, WIRING DIAGRAMS, SCHEMATIC DIAGRAMS, INTERCONNECT DIAGRAM SHALL BE PACKED WITH EACH CONTROL PANEL.
- 5. 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 EXCEPT ON INSTRUMENT PANEL DOOR FASTENERS.

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	28.74	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

CATERPILLAR REFERENCE DRAWING 130-3787 INSTRUCTIONS.

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9DR-SEBP2533

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