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Caterpillar

Service Manual

SRCR Generator

Service Manual

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CT-S-SRCR GEN

SRCR GENERATOR

NOTE: Sections 4 through 9 give systems operation and troubleshooting information for different types of SRCR generators. Use the Serial Numbers List to find out which section has information for a specific serial number. The information in the other sections of the manual is common to all SRCR generators.

SERIAL NUMBER LIST (SECTION 1) _____

GLOSSARY (SECTION 2) _____

IDENTIFICATION (SECTION 3) _____

TYPE A (SECTION 4) _____

TYPE B (SECTION 5) _____

TYPE C (SECTION 6) _____

TYPE D (SECTION 7) _____

TYPE E (SECTION 8) _____

TYPE F (SECTION 9) _____

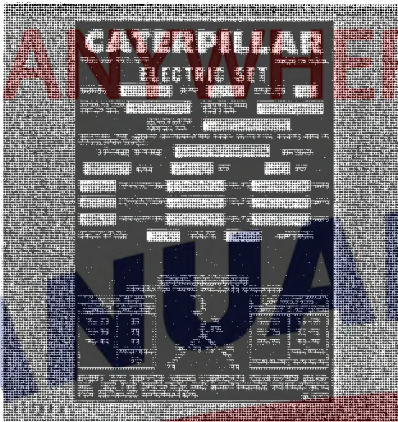
INDUSTRIAL DIVISION DATA SHEETS (SECTION 10) _____

DISASSEMBLY AND ASSEMBLY (SECTION 11) _____

GENERATOR REWIND DATA (SECTION 12) _____

NOTE: The "C" is an indication of a change from the former issue.

IDENTIFICATION



TYPICAL GENERATOR NAMEPLATE

The generator serial number, on the nameplate, tells four things about the generator.

1. The first group of numbers gives an approximate indication of the kW rating of a 60 cycle generator. For 50 cycle generators, the number is approximately 120 percent of the kW rating.
2. The letter T is the symbol for Caterpillar Statically Regulated Controlled Rectifier generator.
3. The next letter gives an indication of the voltage rating. See chart.

Letter	Volts*	Cycles (Hz)
L	115-230	60
H	230-460 125/216 200-400	60 or 60 or 50
G	287-575 230-460	60 or 50
N	2400	60

*Both voltages of a 125/216 single voltage generator can be used at the same time. On the 115-230, 200-400, 230-460, and 287-575 10 wire dual voltage generators, the leads can be connected to get one or the other of the voltages, but not both at the same time. Rated voltage on dual voltage generators is for a line to line connection. A line to neutral connection will give 58% of the rated voltage.

4. The last group of numbers is the actual serial number of the generator in it's kW and voltage rating.

NOTE: If a generator is connected to give performance different from that shown on the nameplate, a new nameplate should be installed on the generator. Mark the new nameplate to show the present method of connection and rated capacities.

The chart that follows gives the basic characteristics of each SRCR generator.

3 PHASE 60 CYCLE GENERATORS						
ENGINE MODEL	GEN. PART #	GEN. FRAME	kW	RPM	VOLTAGE	FIRST S/N
D320TA	7L10	365	50	1800	115-230 230-460 287-575	50TL1
	7L11					50TH1
	7L12					50TG1
D311H	7L13	363	30	1800	115-230 230-460 287-575	30TL1
	7L14					30TH1
	7L15					30TG1
D330T Series A	7L16	366	60	1800	115-230 230-460 287-575	60TL1
	7L17					60TH1
	7L18					60TG1
D330TA Series B	7L19	444	75	1800	230-460 287-575	75TH1
	7L20					75TG1
D333TA Series A	7L21	445	100	1800	230-460 287-575	100TH1
	7L22					100TG1
D333TA Series B	7L23	446	125	1800	230-460 287-575	125TH1
	7L24					125TG1
D343TA	7L25	449	200	1800	230-460 287-575	200TH1
	7L26					200TG1
D398TA	7L27	686	500	1200	230-460	C500TH1
D342T	7L28	585	150	1200	230-460 287-575	150TH1
	7L29					150TG1

3 PHASE 60 CYCLE GENERATORS (cont.)							
ENGINE MODEL	GEN. PART #	GEN. FRAME	kW	RPM	VOLTAGE	FIRST S/N	SEE NOTE AT END
D353TA	7L30 7L31 7L32	587	250	1200	230-460 287-575 2400	250TH1 250TG1 250TN1	
D379TA	7L33 7L34 7L35	683	350	1200	230-460 287-575 2400	350TH1 350TG1 350TN1	
D398TA	7L36 7L37 7L38	686	500	1200	230-460 287-575 2400	500TH1 500TG1 500TN1	
D336	7L40 7L41	447	150	1800	230-460 287-575	155TH200 155TG200	
D320TA	7L43	365	50	1800	230-460	A50TH200	4
D330T Series A	7L44	366	60	1800	230-460	A60TH200	4
D399TA	7L51 7L52 7L53	807	700	1200	230-460 287-575 2400	700TH1 700TG1 700TN1	
D348TA	7L54 7L55 7L56	685	450	1800	230-460 287-575 240	450TH1500 450TG1500 450TN1500	
D346TA	7L57 7L58 7L59	683	300	1800	230-460 287-575 2400	300TH1500 300TG1500 300TN1500	
D333TA Series A	7L60	445	100	1800	230-460	A100TH200	5
D330TA Series B	7L61	444	75	1800	230-460	A75TH200	4
D343TA	7L62	449	200	1800	287-575	A200TG200	5
D353TA	7L63	587	250	1200	230-460	A250TH1	5
G333TA Series B	7L64 7L65	446	125	1800	230-460 287-575	130TH200 130TG200	
D379TA	7L66	683	350	1200	230-460	A350TH1	5
D343TA	7L67 7L68	449	200	1800	230-460 230-460	A200TH200 C200TH200	4 5
D330NA Series C	7L69 7L70 7L71	365	50	1800	115-230 230-460 287-575	50TL1500 50TH1500 50TG1500	
D330TA Series A	7L72	366	60	1800	230-460	C60TH200	5
D336TA	7L77 7L78	447	150	1800	230-460 287-575	155TH1500 155TG1500	
D330T Series C	7L79 7L80	444	75	1800	230-460 287-575	75TH1500 75TG1500	
D333T Series C	7L81 7L82	445	100	1800	230-460 287-575	100TH1500 100TG1500	
D333TA Series B	7L83	446	125	1800	230-460	C125TH1	5
D320TA	7L84	365	50	1800	230-460	C50TH1	5
D343TA	7L85 7L86	449	200	1800	230-460 287-575	200TH1500 200TG1500	
D343TA	7L87	449	200	1800	230-460	C200TH1500	5
D342T	7L88 7L89	585	150	1200	230-460 287-575	150TH1500 150TG1500	
D353TA	7L90 7L91 7L92	587	250	1200	230-460 287-575 2400	250TH1500 250TG1500 250TN1500	

3 PHASE 60 CYCLE GENERATORS (cont.)							
ENGINE MODEL	GEN. PART #	GEN. FRAME	kW	RPM	VOLTAGE	FIRST S/N	SEE NOTE AT END
D379TA	7L93 7L94 7L95	683	350	1200	230-460 287-575 2400	350TN1500 350TG1500 350TH1500	
D398TA	7L96 7L97 7L98	686	500	1200	230-460 287-575 2400	500TH1500 500TG1500 500TN1500	
D333T Series C	7L99	445	100	1800	230-460	C100TH1500	5
D349TA	8L10 8L11 8L12	687	600	1800	230-460 287-575 2400	600TH2000 600TG2000 600TN2000	
D399TA	8L13 8L14 8L15	807	700	1200	230-460 287-575 2400	700TN1500 700TG1500 700TN1500	
D343TA	8L16	449	200	1800	287-575	C200TG1500	5
D399TA	8L17	807	700	1200	230-460	C700TH1500	5
D379TA	8L18	683	350	1200	230-460	C350TH1500	5
D330NA Series C	8L19	365	50	1800	230-460	T50TH1500	
D336TA	8L20 8L21	447	150	1800	230-460 287-575	155TH1600 155TG1600	
D330T Series C	8L22	444	75	1800	230-460	T75TH1500	
D333T Series C	8L23	445	100	1800	230-460	T100TH1500	
D343TA	8L24	449	200	1800	230-460	T200TH1500	
D343TA	8L25	449	200	1800	287-575	T200TG1500	
D399TA	8L26	807	700	1200	230-460	T700TH1500	
D348TA	8L27	685	450	1800	287-575	T450TG1500	
D336	8L28	447	150	1800	230-460	T155TH1600	
D399	8L29	807	700	1200	2400	T700TN1500	
D342T	8L30 8L31	585	150	1200	230-460 287-575	150TH2000 150TG2000	
D353	8L32 8L33 8L34	587	250	1200	230-460 287-575 2400	250TH2000 250TG2000 250TN2000	
D346	8L35 8L36 8L37	682	300	1800	230-460 287-575 2400	300TH2000 300TG2000 300TN2000	
D379	8L38 8L39 8L40	683	350	1200	230-460 287-575 2400	350TH2000 350TG2000 350TN2000	
D348	8L41 8L42 8L43	685	450	1800	230-460 287-575 2400	450TN2000 450TG2000 450TH2000	
D398	8L44 8L45 8L46	686	500	1200	230-460 287-575 2400	500TH2000 500TG2000 500TN2000	
D399	8L47 8L48 8L49	807	700	1200	230-460 287-575 2400	700TH2000 700TG2000 700TN2000	
D330NA	8L50 8L51 8L52	365	50	1800	115-230 230-460 287-575	50TL2000 50TH2000 50TG2000	
D330T	8L53 8L54	444	75	1800	230-460 287-575	75TH2000 75TG2000	

3 PHASE 60 CYCLE GENERATORS (cont.)							
ENGINE MODEL	GEN. PART #	GEN. FRAME	kW	RPM	VOLTAGE	FIRST S/N	SEE NOTE AT END
D333T	8L55 8L56	445	100	1800	230-460 287-575	100TH2000 100TG2000	
D334TA & D336TA	8L57 8L58	447	150	1800	230-460 287-575	155TH2000 155TG2000	
D343TA	8L59 8L60	449	200	1800	230-460 287-575	200TH2000 200TG2000	
D398	8L61	686	500	1200	230-460	T500TH2000	
D353	8L62	587	250	1200	230-460	T250TH2000	
D353	8L63	587	250	1200	287-575	T250TG2000	
D333	8L64	445	100	1800	230-460	T100TH2000	
D348	8L65	685	450	1800	287-575	T450TG2000	
D336	8L66	447	150	1800	230-460	T155TH2000	
D343	8L67	449	200	1800	287-575	T200TG2000	
D399	8L68	807	700	1200	2400	T200TN2000	
D330NA Series C	8L69	365	50	1800	230-460	T50TH2000	
D330T	8L70	444	75	1800	230-460	T75TH2000	
D343	8L71	449	200	1800	230-460	T200TH2000	
D346	8L72	682	300	1800	230-460	T300TH2000	
D333T	8L73	445	100	1800	287-575	T100TG2000	
D353	8L74	587	250	1200	2400	T250TN2000	
D399	8L75	807	700	1200	230-460	ST700TH2000	6
D343	8L76	449	200	1800	230-460	ST200TH2000	6
D379	8L77	683	350	1200	230-460	T350TH2000	
D330	8L79	365	50	1800	115-230	T50TL2000	
D399	8L79	807	700	1200	230-460	T700TH2000	
D348	8L80	685	450	1800	230-460	T450TH2000	
D342	8L81	585	150	1200	230-460	T150TH2000	
D398	8L82	686	500	1200	2400	T500TH2000	
D330T	8L83	444	75	1800	287-575	T75TG2000	
D330NA	8L84	365	50	1800	287-575	T50TG2000	
D334	8L85	447	150	1800	287-575	T155TG2000	
D379	8L86	683	350	1200	287-575	T350TG2000	
D330	8L87	365	50	1800	230-460	M50TH3000	7
D330	8L88	444	75	1800	230-460	M75TH3000	7
D379	8L89	683	400	1200	230-460	M350TH3000	7
D398	8L90	686	550	1200	230-460	M500TH3000	7
D397	8L91	807	800	1200	230-460	M800TH3000	7
D346	8L92	682	300	1800	230-460	M300TH3000	7
D353	8L93	587	275	1200	230-460	M250TH3000	7

NOTES: GENERATORS RATED 3 PHASE, 60 CYCLE, 230-460 VOLT, USED FOR 125/216 VOLT AT SAME KW RATING.
 GENERATORS RATED 3 PHASE, 60 CYCLE, 230-460 VOLT, USED FOR 3 PHASE, 50 CYCLE, 200-400 VOLT AT NOMINALLY 5/6 OF KW RATING
 GENERATORS RATED 3 PHASE, 60 CYCLE, 287-575 VOLT, USED FOR 3 PHASE, 50 CYCLE, 230-460 VOLT AT NOMINALLY 5/6 OF KW RATING

1. FOR PLANETARY DRIVE 2200/1800 RPM OR 1833/1500 RPM.
2. FOR PLANETARY DRIVE 2000/1500 RPM.
3. FOR CLUSTER GEAR DRIVE 2000/1800 OR 2000/1500 RPM.
4. RADIO SUPPRESSED TO MIL-I-16910C AND MIL-I-16165B.

5. FUNGICIDAL VARNISH PER MIL-V-173B.
6. 220 VOLT SPACE HEATER.
7. MARINE SOCIETY APPROVED GEN. (ABS, LLOYDS & DNV).