



SERVICE BULLETIN

1400 73RD AVENUE N. E. • MINNEAPOLIS, MINN 55432

Misc

9

ONAN MODEL NUMBERING SYSTEM

2-73

If you wish to contact Onan, your Onan dealer or distributor about parts or service, always furnish the complete model number, specification letter and serial number from the nameplate. When using the service bulletin for information about your unit's model designation, be sure to use the correct system below (either for current or early models).

Read down the column groups which appear on the following pages.

CURRENT MODELS

MODEL - 6.5 MCCK-3 R / 3596 C
SEE COLUMN - 1 2 3 4 5 6 7

EARLY MODELS

MODEL - 1 AJ-2 R V * / 926 A
SEE COLUMN - 1 2 3 4 8 5 6 7

A NUMBER HERE INDICATES A STANDARD MODEL MODIFIED BY ONAN FOR A SPECIAL APPLICATION.
A FEW COMMONLY USED NUMBERS ARE LISTED.

STANDARD MODIFICATIONS

CODE	DESIGNATION	CODE	DESIGNATION
1	6 volt cranking or input.	31	State of Pa. - gas.
2	12 volt cranking or input.	50	State of Pa. - diesel.
3	24 volt cranking or input.	114	Fire dept. models (manual start).
4	32 volt cranking or input.	131	State of Pa. - LPG.
5	125 volt cranking or input.	1330	Utility truck model.
8	Unhoused model.	2236	Contractor model.
10	36 volt cranking or input.	2268	Heat exchanger model.
11	48 volt cranking or input.	3500	PortaStart, with 18 volt battery.
16	Hand throttle (no governor).	3836	Marine work boat model.
17	X - ray model.	3900	PortaStart.
28	Variable speed governor.	4114	Fire dept. models (electric start).
30	State of Pa. - gasoline.	6000	Mobile models.

**1. GENERATING SET CAPACITY
(IN WATTS)**

0.6, 06 = 600
1.0, 1 = 1000
1.5, 105 = 1500
10.0, 10 = 10,000
450.0, 450 = 450,000
etc.

2. ENGINE DATA

MARINE MODELS ONLY

SERIES	CYLINDER	BORE (IN)	STROKE (IN)	COOLING	ENGINE MANUFACTURER
MKH	1	2 1/2	2 1/4	Liquid	Onan
MAJ	1	2 3/4	2 1/2	Liquid	Onan
MUK	1	3	2 3/4	Liquid	Onan
MJA	1	3 1/4	3 5/8	Liquid	Onan
MCK	2	3	2 3/4	Air	Onan
MTK	2	3	2 3/4	Liquid	Onan
MCCCK	2	3 1/4	3	Liquid	Onan
MJB	2	3 1/4	3 5/8	Liquid	Onan
MGO	4	2 7/8	3 1/2	Liquid	Continental Y91
MJC	4	3 1/4	3 5/8	Liquid	Onan
DIESEL ONLY					
MDJA	1	3 1/4	3 5/8	Liquid	Onan
MDSL, MDSP	1	3 1/2	3 1/2	Liquid	Onan
MDJB	2	3 1/4	3 5/8	Liquid	Onan
MDJE	2	3 1/2	3 5/8	Liquid	Onan
MDZB	3	3 3/4	4 1/2	Liquid	Hercules DD-149
MDJC	4	3 1/4	3 5/8	Liquid	Onan
MDJF	4	3 1/2	3 5/8	Liquid	Onan
MDE H	4	4.22	4.52	Liquid	Ford 2711E
MDEG	6	4.22	4.52	Liquid	Ford 2714E

GENERATING SETS WITH ONAN ENGINES

SERIES	CYLINDER	BORE (IN)	STROKE (IN)	COOLING
AH	1	2 1/2	2 1/4	Air
AK	1	2 1/2	2 1/2	Air
AJ	1	2 3/4	2 1/2	Air
LK	1	3 1/4	3	Air
JA	1	3 1/4	3 5/8	Air
NB	1	3 9/16	3	Air
BH	2	2 1/2	2 1/4	Air
ACK	2	3	2 3/4	Air
CK	2	3	2 3/4	Air
CCK, CCKB	2	3 1/4	3	Air
NH	2	3 9/16	3	Air
CW	2	4	3 1/2	Air
JB	2	3 1/4	3 5/8	Air
JC	4	3 1/4	3 5/8	Air
RJC	4	3 1/4	3 5/8	Liquid
DIESEL ONLY				
DJA	1	3 1/4	3 5/8	Air
DSL, DSP	1	3 1/2	3 1/2	Air
DJB	2	3 1/4	3 5/8	Air
DRN, DRP	2	3 1/2	3 1/2	Air
DJC	4	3 1/4	3 5/8	Air
RDJC	4	3 1/4	3 5/8	Liquid
RDJF	4	3 1/2	3 5/8	Liquid

GENERATING SETS WITH OTHER MANUFACTURER'S ENGINES

SERIES	CYLINDER	BORE (IN)	STROKE (IN)	COOLING	ENGINE MANUFACTURER
TL	1	2 5/16	1 27/32	Air	Tecumseh - LAV30
TA	1	2 1/2	1 27/32	Air	Tecumseh-Lauson H 35
PC	1	2 1/2	2 1/8	Air	Briggs & Stratton
TE	1	2 5/8	2 1/4	Air	Tecumseh-Lauson H 50
TF	1	2 3/4	2 17/32	Air	Tecumseh-Lauson H 70
TD	1	3 5/16	2 3/4	Air	Tecumseh-Lauson HH 80
GO	4	2 7/8	3 1/2	Liquid	Continental Y 91
EL	4	3 3/16	3 3/4	Liquid	Ford 8 NNN
HC	4	3 7/16	4 3/8	Liquid	Continental F-162
HQ	4	3 7/16	4 3/8	Liquid	Continental F-162
HK	6	3	4 3/8	Liquid	Continental F-186
HN	6	3 5/16	4 3/8	Liquid	Continental F-226
EC	6	3.62	3.6	Liquid	Ford 223 CU IN
EK	6	4	3.18	Liquid	Ford 240 CU IN
EM	6	4	3.98	Liquid	Ford 300 CU IN
JT	6	4	4 3/8	Liquid	Continental M330
KA	6	4 3/8	5	Liquid	IHC, U-450
KT	6	5 3/8	6	Liquid	IHC, UT-817
WA	6	5 3/8	6	Liquid	Waukesha 145-GZU
WB	6	6 1/4	6 1/2	Liquid	Waukesha F1197GU
WC	6	6 1/4	6 1/2	Liquid	Waukesha F1197GRS1
ED	8	3.62	3.3	Liquid	Ford 272 CU IN
EF	8	3.75	3.3	Liquid	Ford 292 CU IN
KB	8	4 1/8	3 3/4	Liquid	IHC, UV-401
KR	8	4 1/2	4 5/16	Liquid	IHC, UV-549
WE	8	5 3/4	4 7/8	Liquid	Roiline H884
FT	12	5 1/2	6	Liquid	Cummins GV12-525
WF	12	5 3/4	5 3/16	Liquid	Waukesha L1616GSIU
WK	12	5 3/4	5 3/16	Liquid	Waukesha L1616GSIU
DIESEL ONLY					
DLA	1	3	3 1/2	Air	Lister LR1Z
DZB	3	3 3/4	4 1/2	Liquid	Hercules D1500
DEC	4	3.937	4.526	Liquid	Ford 220 CU IN
DZC	4	4	4 1/2	Liquid	Hercules D2300
DEH	4	4.22	4.52	Liquid	Ford 2711E
DFA	4	5 1/8	6	Liquid	Cummins HRC-4
DFJ	4	5 1/8	6	Liquid	Cummins NHC-4
DFK	4	5 1/2	6	Liquid	Cummins NT-380
DYA	6	3 7/8	4 1/4	Liquid	Allis Chalmers 2900
DEF	6	4.125	4.52	Liquid	Ford 2713E
DZD	6	4	4 1/2	Liquid	Hercules D3400
DEG	6	4.22	4.52	Liquid	Ford 2714E
DWJ	6	4 1/4	5	Liquid	Waukesha 135DKU
DYC	6	4 1/4	5	Liquid	Allis Chalmers 3500
DYD	6	4 7/16	5 9/16	Liquid	Allis Chalmers 11000
DFB	6	4 7/8	6	Liquid	Cummins H-743-PG160
DFC	6	5 1/8	6	Liquid	Cummins H-743-P190
DFD	6	5 1/8	6	Liquid	Cummins HRS-6
DFE	6	5 1/8	6	Liquid	Cummins NHRS-6
DFH	6	5 1/8	6	Liquid	Cummins N-743-P220
DYH	6	5 1/4	6 1/2	Liquid	Allis Chalmers 21000
DFM	6	5 1/2	6	Liquid	Cummins NTA-400
DFF	6	5 1/2	6	Liquid	Cummins NT-335
DFQ	6	5 1/2	6	Liquid	Cummins NT-855-P270
DYB	6	5 1/4	6 1/2	Liquid	Allis Chalmers 25000
DYG	6	5 1/4	6 1/2	Liquid	Allis Chalmers 17000 MKII
DWF	6	6 1/4	6 1/2	Liquid	Waukesha F1197DSU
DFT	12	5 1/2	6	Liquid	Cummins V-1710-P500
DFU	12	5 1/2	6	Liquid	Cummins VT-1710-P635
DFV	12	5 1/2	6	Liquid	Cummins VT-4710-PG635
DFW	12	5 1/2	6	Liquid	Cummins VTA-1710-P800
DFY	12	5 1/2	6	Liquid	Cummins VTA-1710-P800

3. ELECTRICAL OUTPUT

AC VOLTAGE

Code	Volts	Phase	Wire
1	120	1	2
1X (was 11)	120	3	3
2	240	1	2
2X (was 12)	120/208; 240/416; 120; 120/240D; 220/380	3	12
3	120/240	1	3
*3C	120; 240; 120/240	1	4
3X (was 10)	240/480	1	3
*3U	120/240	1	3
4	120/208	3	4
4X	277/480	3	4
5	240	3	3
*5D	120/240	3	4
5X	240/480D; 240D; 480; 240/416	3	12
6	480	3	3
*6D	240/480	3	4
6X	277/480; 138/240; 240/416	3	12
7	220/380	3	4
7X	240/416	3	4
8	127/220	3	4
8X	120/208; 120; 120/240	1 & 3	6
9	600	3	3
9X	347/600	3	4
99	Special Voltage	1 &/or 3	
14	120/208; 240/416	3	10
15	120/208; 240/416; 277/480 120/240D & 120/240 Single Phase	1 & 3	12
16	139/240; 277/480	3	10

Other Frequencies

Prefix the voltage code with a 2 on 50/60 hertz
Prefix the voltage code with a 5 on 50 hertz
Prefix the voltage code with a 18 on 180 hertz
Prefix the voltage code with a 40 on 400 hertz
Prefix the voltage code with a 80 on 800 hertz

The prefix applies to generators, units, automatic transfer switches, automatics and switchboards.

Example: 5.0CCK-3CR for 50 hertz becomes 3.5CCK-53CR

*C designates reconnectible.

*D designates delta.

*U designates unity power factor.

DC BATTERY CHARGING

206 = 6-8 volts
212 = 12-15 volts
224 = 24-28 volts
225 = 12/24 dual voltage
226 = 6/12/24 volts (regulated)
228 = 28.5 volts (regulated)
232 = 32-40 volts
210 = 110-140 volts

DC NON-BATTERY CHARGING

114 = 14 volts
115 = 115 volts
125 = 125 volts
123 = 230 volts
128 = 28 volts
136 = 36 volts
144 = 440 volts
150 = 250 volts

4. TYPE OF STARTING

E-ELECTRIC START – Start-stop buttons on generating set only.

M-MANUAL START – Pull rope or hand crank.

R-REMOTE START – Start-stop buttons at generating set and remote control.

A-AUTOMATIC START – Automatically started with a load demand of 75 watts or more (installed only on remote starting generating sets).

P-PORTABLE MODELS – Same as manual start model except for portable service with a carrying handle.

5. DIAGONAL LINE

Separate unit characteristics from specification number and letter.

6. SPECIFICATION NUMBER

Denotes customer requested deviations from standard model.

7. SPECIFICATION LETTER

Denotes major Onan changes in unit series at factory.

8. DESIGN FEATURE CODE

V - Designates Vacu-Flo cooling (optional).

L - Designates Idlematic control feature.

WELDERS

330 = 30 volt DC
331 = 30 volt DC, 120 volt AC
*332 = 20-30 volt, DC, 240 volt AC (CCK)
341 = 25 volt AC, 120 volt AC
343 = 25 volt AC, 120/240 volt AC
381 = 28 volt DC (regulated), 120 volt AC

★ Early CK-332 welders were only 20 to 30 volt DC, no AC circuit.

TYPICAL MODELS ONLY

INDUSTRIAL ENGINES: $\frac{CCK}{9} - \frac{MS}{10} \frac{88}{5} \frac{F}{6} \frac{7}{7}$

INVERTERS: $\frac{1}{1} \frac{VA}{12} \frac{A}{15} \frac{1}{3} - \frac{3}{*} \frac{1}{5} \frac{A}{6} \frac{7}{7}$

MOTOR-GENERATOR SETS: $\frac{2}{1} \frac{MA}{11} - \frac{350}{3} \frac{N}{11} \frac{14}{5} \frac{A}{6} \frac{7}{7}$

TWO BEARING GENERATORS: $\frac{15.0}{1} \frac{UF}{11} - \frac{3S}{3} \frac{106}{5} \frac{14}{14}$

AUTOMATIC CONTROLS: $\frac{15.0}{1} \frac{HA}{12} \frac{3}{3} \frac{4}{*} \frac{1}{5} \frac{C}{6} \frac{7}{7}$

SINGLE BEARING GENERATORS: $\frac{35}{1} \frac{UL}{11} - \frac{4}{3} \frac{N}{11} \frac{1}{5} \frac{A}{6} \frac{7}{7}$

AUTOMATIC TRANSFER SWITCH: $\frac{LTCU}{12} \frac{400}{13} - \frac{5}{3} \frac{1}{5} \frac{C}{6} \frac{7}{7}$

SWITCHBOARDS: $\frac{200.0}{13} \frac{SPF}{12} - \frac{4}{3} \frac{1}{5} \frac{A}{6} \frac{7}{7}$

NOTE: For columns 1 through 8, refer to preceding descriptions.

* Page 1.

9. ONAN INDUSTRIAL ENGINE DATA (Air Cooled)				10. POWER TAKE-OFF		11. MISCELLANEOUS	
SERIES	CYLINDER	BORE (In)	STROKE (In)	CODE	DESIGNATION	CODE	DESIGNATION
ACK	2	3	2 3/4	F	Clutch drive	A	AC (MG set)
AJ	1	2 3/4	2 1/2	G	Gear reduction drive	C	Cranking winding
AK	1	2 1/2	2 1/2		(2G -2:1, 4G -4:1)	D	DC - Electric motor
BH	2	2 1/2	2 1/4	M	Starter	MA } Motor generator	
BF	2	3 1/2	2 5/8	MF	Starter & clutch drive	MG } Designation	
CCK	2	3 1/4	3	MG	Starter & gear reduction drive (2MG -2:1, 4MG -4:1)	N	Non-cranking
CCKA	2	3 1/4	3			U	Separate gen. (all voltages & KW)
CCKB	2	3 1/4	3			RA	Tractor drive separate generator
CCKM	2	3 1/4	3	MS	Starter & stub shaft	UA	Separate generator (rev. arm, below 8KW)
CK	2	3	2 3/4	MT	Starter w/transmission (4MT -3.9:1)	UB	Separate generator (rev. arm, 8KW & up)
CW	2	4	3 1/2	S	Stub shaft power take-off	UD	Separate generator (rev. arm, below 4 KW)
DRP	2	3 1/2	3 1/2			UF	Sep. gen. (rev. arm)
JA	1	3 1/4	3 5/8	T	Transmission drive (clutch & gear transmission) 2T -2:1 or 2.5:1, 4T -4:1	UL	Single bearing generator (rev. field)
JB	2	3 1/4	3 5/8			UR	Tractor PTO driven, brushless
JC	4	3 1/4	3 5/8			US	6 Pole sep. gen. (rev. field), all volt begin 10 KW
DJA	1	3 1/4	3 5/8			UT	Tractor drive separate generator
DJB	2	3 1/4	3 5/8			S	Two bearing, non-cranking
DJC	4	3 1/4	3 5/8				
LKB	1	3 1/4	3				
NB	1	3 9/16	3				
NH	2	3 9/16	3				
NHA	2	3 9/16	3				
NHB	2	3 9/16	3				
NHC	2	3 9/16	3				

12. AUXILIARY CONTROLS				13. AMPERE RATING		14. TYPE OF DRIVE	
CODE	DESIGNATION	CODE	DESIGNATION	CODE	DESIGNATION	CODE	DESIGNATION
T	Automatic transfer switch	S	Switchboards	10	10 Amp	41	4.12 - 1 gear
AF		SA		30	30 Amp	42	Belt
ATSC		SB		60	60 Amp	61	3.32 - 1 gear
ATSD		SC		100	100 Amp	74	1.83 - 1 gear
ATSE		SPF		200	200 Amp	104	6.9 - 1 gear
LT		SPW		300	300 Amp	106	3.32 - 1 gear
LTA		SNF	Inverter	400	400 Amp	15. TYPE OF MOUNT	
LTCU		SNW		600	600 Amp	A	Rack
LTDU				800	800 Amp	B	Wall
LTEU		VA		1200	1200 Amp	C	Free standing on floor.
LTF		VAA		2000	2000 Amp		
LTG		VAB		3000	3000 Amp		
LTM		VAC		4000	4000 Amp		
LTP							
LTPA							
LTSU							
H	Automatic control						
HA							