The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.

Onan

Wiring Diagrams

Marine GenSets

To be used ONLY by

Distributor Service Organization

Or

Distributor/Dealer



All wiring diagrams in this manual apply to Onan Marine GenSets. When using diagrams, remember all relays are shown in the de-energized position.

Find the model in question in the left hand column, then look to the right for the appropriate wiring diagram and the page where it is located.

If unable to find the generator set you need, use the wiring diagram for the basic unit. For example a spec 2268 or 3316 indicate cooling options which would not effect the electrical control. You will then use the basic specification for the particular set you are working on.

Sets designated -53CR are the same as -3CR, and -518R the same as -18R. Again, use the basic wiring diagram.

MODEL NUMBER AND SPEC LETTER	WIRING DIAGRAM	SEE GRID
Marine Gasoline 3.0MAJ-1R/1A 3.0MAJB-1R/1A	610-0364 610-0372	A14 B1
4.0MCCK-1A/A,B. 4.0MCCK-3A/C 4.0MCCK-1A/6704C 4.0MCCK-1A/D 4.0, 6.5MCCK-3A/D' 4.0; 6.5MCCK-1A/E,F,G	613-0001 613-0003 613-0006 613-0007 613-0008 613-0009	G5 G6 G7 G8 G9 G10
4.0; 6.5MCCK-3CR/A,B,C 4.0; 6.5MCCK-3CR/D 4.0; 6.5MCCK-3CR/E,F 4.0; 6.5MCCK-3CR/G 4.0; 6.5MCCK-3CR/H 4.0; 6.5MCCK-3CR/H (With Spec D HA Panel)	611-0697 611-1060 611-1096 611-1143 611-1145 611-1165	B2 B9 B10 B11 B12 B13
6.0; 7.5MJB-3CR/L,P,R 10.0; 12.0; 15.0MJC-3CR/P,R,S	.611-0705 612-2750	B47,

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MODEL NUMBER AND SPEC LETTER	WIRING DIAGRAM	SEE GRID
Marine Diesel	,	\$
3.0MDJA-1R/R,S 3.0MDJA-1R/T,U,V 3.0MDJA-1R3/S 3.0MDJA-1R4/T, 9374 T,U,V	610-0181 610-0328 610-0264 610-0341	A10 A A12 A A11 A13
6.0MDJB-3CR/S 6.0MDJB-3CR/10141S	611-0703 611-0934	B3 . B8
10.0 & 12.0MDJCR/S,T,U	612-2334	B14
10.0 & 12.0MDJCR/AA	612-4792	C5
10.0 & 12.0MDJCR/AB,AC	612-5557	D11
10.0 & 12.0MOJC=R7=AD	612-6065	E11
: 10.0 & 12.0MDJC=-R/10141AA, R3945AA, /10142AA, 16520AA, : : : : : : : : : : : : : : : : : :	-Nov	
17803AA, 15238AA	612-4853	C6
10.0 & 12.0MDJCR/10141AB,AC, 10142AB,AC, 16520AB,AC	612-5567	D12
10.0 & 12.0MDJCR/11620AA	612-5171	D2
10.0 & 12.0MDJCR/11620AB	612-5651	E 1
10.0 & 12.0MDJCR/10141AD, 15238AD	612-6064	E10
10.0 & 12.0MDJCR/11620AD	612-6154	F7

	計日間		
	100	NG DIAGRAM	SEE GRI
MODEL NUMBER AND SPEC LETTER	ANIMI	NG DIAGNAM	SEE GRI
Marine Diesel			
6.0 & 7.5MDJER/A	~4	611-0703	√ B 3
6.0/& 7.5MDJER/4B,9374 B,C		611-0722	B5
6.0 & 7.5MDJER/B,C		611-0811	B6
6.0 & 7.5MDJER/11620B,C		611-0884	B7
6.0 & 7.5MDJER/3945B,C, 10141B,C, 10142B,C		611-0934	B 8
6.0 & 7.5MDJER/AA,AB	* *	612-4792	C5 .
6.0 & 7.5MDJER/AC,AD,AE,		612-5557	D11
60 & 7.5MDJER/AF		612-6065	E11
6.0 & 7.5MDJER/3945AA,AB, 10141AA,AB, 10142AA,AB		0.0.1000	1.00
16520AA,AB, 15459AA,AB	•	612-4853	* C 6
6.0 & 7.5MDJER/3945AC,AD,AE, 10141AC,AD,AE, 10142AC,AD,AE		612-5567	540
16520AC,AD,AE		612-6064	D12 E10
6.0 & 7.5MDJER/10141AF, 10142AF, 16520AF 6.0 & 7.5MDJER/11620AA,AB		612-5171	D2
6.0 & 7.5MDJER/11620AC,AD,AE, 24131AC,AD,AE,		612-5651	E1
6.0 & 7.5MDJER/11620AF		612-6154	F7
6.0 & 7.5MDJER/14439AF, 25302AF	<i>t.</i>	612-6107	F4
6.0 & 7.5MDJER/9374AA,AB		612-4889	® C8
6.0 & 7.5MDJE-99CR/8227AA	± -	612-5387	D9

D

MODEL NUMBER AND SPEC LETTER	WIRING DIAGRAM	SEE GRID
Marine Diesel		
12.0 & 15.0MDJFR/B,C,D	612-2334	B14
12.0 & 15.0MDJFR/AA, 4686AA, 14852AA, 20143AA	612-4792	C5,
12.0 & 15.0MDJFR/AB,AC, 4686AB,AC	612-5557	D11 -
12.0 & 15.0MDJFR/AD, 4686AD, 14852AD	612-6065	E11
	612-4853	C6
12.0 & 15.0MDJFR/10141AA, 10142AA, 16520AA, 3945AA	612-4889	C8
12.0 & 15.0MDJFR/10641AA, 9374AA	612-5567	D12
12.0 & 15.0MDJF=-R/10141AB, 14852AB, 16520AB	- 1 1	E10
12.0 & 15.0MDJFR/10141AD 26296AD	612-6064	
12.0 & 15.0MDJFR/13981AA	612-4854	
12.0 & 15.0MDJFR/9374AB,AC 4AB	612-5701	E2
12.0 & 15.0MDJFR/9374AD	612-6068	E12
12.0 & 15.0MDJFR/11620AA	612-5171	D2
12.0 & 15.0MDJFR/11620AB, 22783AB	612-5651	E1
12.0 & 15.0MDJFR/11620AD	612-6154	* F7
12.0 & 15.0MDJER/20377AA	612-5647	D14
12.0 & 15.0MDJFR/14439AA	612-4938	C13
12.0 & 15.0MDJFR/22838AD	612-6123	-F6
	612-5782	F4
12.0 & 15.0MDJFRA13981AB	OIL OIOL	4

MODEL NUMBER AND SPEC LETTER		WIRING D	IAGRAMS	7
Marine Diesel	AC	GRID	DC 3	GRID
3.5MDKC-53CR/1A	612-6184	F8	612-6187	€ F10 \
3.5MDKC-518R/1A	612-6185	, F 9	612-6187	F10
40MDKC-1R/1A	612-6184	F8	6187	F10
4.0MDKC-3CR/1A	612-6184	F8 *	6187	F10
4.0MDKC-3CR/26501A	612-6184	F8	612-6187	F10
4.0MDKC-18R/1A	612-6185	F9.	612-6187	F10
6.5MDKD-53CR/1A,B, 26501A,B	612-6184		612-6187	F†0
6.5MDKD-518R/1A,B	612-6185	Fg.	612-6187	F10
8.0MDKD-1R/1A,B	612-6184	F8 *	612-6187	F10
8.0MDKD-3CR/1A, 26501A,B	612-6184	_F8 *,	612-6187	` F10 ·
8.0MDKD-3CR/26669A,B	612-6185		612-6187	- F10
8.0MDKD=18R/1A,B	612-6185	*F9	612-6187	F10
			040.0000	
12.0MDL3-53CR/1A	612-6094	, F3	612-6396	G4
15.0MDL3-3CR/1A, 28396A, 28555A	612-6093	F2	612-6396	° G4
16.0MDL4-53CR/1A,2A	612-6093	F2	612-6090	E13
16.0MDL4-53CR/1B	612-6093	F2 •	612-6372	G1
16.0MDL4-53CR/3A	672-6093	F2 1	612-6091 612-63 7 4	E14 G2
16.0MDL4:53CR/3B	612-6093	F2	- 1.	E13
16.0MDL4-518R/1A,2A	612-6094	F3	612-6090 612-6091	E13
16.0MDL4-518R/3A	612-6094	F3	612-6372	G1
20.0MDE4-3CR/1B, 28396B, 28479B	612-6093	F2	612-6090	E13
20.0MDL4-3CR/1A, 2A, 27821A, 28193A, 28396A	612-6093	F2	612-6091	E14
20.0MDL4-3CR/3A, 25803A	612-6093	F2 (612-6092	F1
20.0MDL4-3CR/4A, 25593A, 25804A	612-6093 612-6093	F2	612-6375	* G3
20.0MDL4-3CR/25804B	612-6094	F2	612-6090	E13
20.0MDL4-3CR/27550A	612-6093	F3	612-6354	F14
20.0MDL4-3CR/27843A	612-6093	F2 F2	612-6090	≥E13
20.0MDL4-3CR/28479A	612-6094	F2 F3	612-6090	£13
20.0MDL4-18R/1A, 2A, 14527A	612-6094	F3	612-6372	G1
20.0MDL4-18R/1B	612-6094	F3	612-6374	G2
20.0MDL4-18R/3B	012*0034 *	rs .	312 33.	<u></u>

MODEL NUMBER	AND SPEC LETTER	4	. WIRING D	IAGRAMS
Marine Diesel		AC	GRID	DC GRID
20.0MDTA-517R/1A		612-5	the same and the s	612-5716 E3/E4
25.0MDTA-53R/1A		612-5	1	612-5716 E3/E4 612-5716 E3/E4
25.0MDTA-3R/1A, 4A	· · · · · · · · · · · · · · · · · · ·	612-5 612-5		612-5716 E3/E4
25.0MDTA-3R/23281A 25.0MDTA-4R/1A		612-5		612-5716 E3/E4
25.0MDTA-4H7 IA		612-5		612-5716 E3/E4
25.0MDTA-3R/4A		612-6	256 - */G2 🛝	612-6257 */G3

- Spec/4 indicates 32V cranking; 25.0MDTA sets in some Hatteras yachts have been modified to use a 20.0MDL4 control.

 These controls are identifiable by absence of fault lights on panel.
- * Use wiring diagrams

	612-5301	D4 - 8	612-5347	**D7
25.0MDEH-515R/14H, 10651J			612-5347	D7
25.0MDEH-515R/1J, 10149J, 18406H	612-5300	D3		
25.0MDEH-515R/1K, 10149K	612-5300	D3	612-6120	F4
25.0MDEH-515R/15858G	612-5014	C14	6/12-4/401	СЗ
30.0MDEH-3R/14J	612-5303	D6	612-5347	· D4
30.0MDEH-3R/1K, 14K	612-5302	D5	612-6120	F4
30.0MDEH-3R/9134J, 11275J. 23629 "	612-5303	D6	612-5348	D8
30.0MDEH15R/14H 14J	612-5301	D4	612-5347	D7
	612-5300	D3 -	612-6120	FI5
*30.0MDEH-15R/1K, 10149K	612-5301	D4	612-6120	P5
30.0MDEH-15R/14K	612-5301	D4	612-5348	D-6
30.0MDEH-15R/9134J 1275J, 18027H, 22236J, 9222J	- F		612-6298	F13
30.0MDEH-15R/11275K	61(2-5301	D4		
30.0MDEH-15R/12282J	6112-5301	D4	612-5590	D13:
30.0MDEH-15R/1G, 9222G	612\4929	C9	612-4401	C *3
30.0MDEH-15R/14492G, 16384G	612-4390	C10	612-4704	° C4
30.0MDEH-15R/15858G	· · 612-5014	Q14	612-4401	CЗ
	612-4932	C1,1	612-4401	ĊЗ
30.0MDEH-3R/1G	612-4933	C12 ,	612-4401	C3
30.0MDEH-3R/10158G	612-4384	C2 ,	612-4704	G4
※ 20 ΔMDEH_3P / 11275C ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	012-4304	سک میدا	012-410-	C ~~

MODEL NUMBER AND SPEC LETTER .		WIRING	DIAGRAMS	
Marine Diesel	AC	GRID	DC	GRID
30.0MDEH-3R/11275G	612-4933	C12	612-4704	C4.
30.0MDEH-3R/18428H	612-5303	D6	612-5439	, D10
30.0MDEH-3R/24957J	° 612-6048	E9	612-5439	D10./
400MDEG-515R/1L	612=5300	D3	612-6120	<i>F</i> 5
40.0MDEG-515R/1K 10149K	612-5300	D3	612-5347	D7
40.0MDEG-515R/10149H	612-4929	C9	612-4401	C3
40.0MDEG-515R/11345	612-4930	C10	612-5115	D1
50.0MDEG-15R/1J, 14J	612-5300	DЗ	612-5347	D7
50.0MDEG-15R/1L	612-5300	Dβ	612-6120	F5
50.0MDEG-15R/14K	612-5301	D4	612-5347	D7
50.0MDEG-15R/14L	612-5301	D4	612-6120	F5
50.0MDEG-15R/9134J	612-5301	>⇒D4	612-5348	D8
50.0MDEG-15R/10149H	612-4929	C9	. 612-4401	C3

Replacement Control for 300-0859 PC Board

	INSTRUCTION SHEET	WIRING DIAGRAM	GRID
300-1796 MCCK Only	C156	611-1143	 B11

MODEL NUMBER AND SPEC LETTER

H.A. Auto Demand > B+Switching

7,5HA-21/1D 7,5HA-21/10D, 12D 7,5HA-23/1D 7,5HA-23/10D, 12D 15,0HA-23/1D 15,0HA-23/10D, 12D

B- Switching

7.5HA-21/24D 7.5HA-21/25D 7.5HA-23/24D 7.5HA-23/25D 15,0HA-23/24D 15,0HA-23/25D

WIRING DIAGRAM SEE GRID

		1.0
617-0147	4	G11
617-0149		G 12
617-0153		G 1/3
617-0155	•	G14
61740156		A1
617-0158		_A2_
		A1

617-0170	4 9		· AO
617-0169	e- ,		A4
617-0171			A5
617-0172			.A6
617-0173		. *	47.
617-0174			A8
O 2 7 . O 2 1 4			i v

































































































































































































