

Wiring Diagrams

DETROIT DIESEL



Industrial Generator Sets

Models:

135-275GS

135-275GSB

(Detroit Diesel Powered)

Controllers:

Digital 550

Digital

Microprocessor-Plus, 16-Light

Microprocessor-Plus, 7-Light



Product Identification Information

Product identification numbers determine service parts. Record the product identification numbers in the spaces below immediately after unpacking the products so that the numbers are readily available for future reference. Record field-installed kit numbers after installing the kits.

Generator Set Identification Numbers

Record the product identification numbers from the generator set nameplate(s).

Model Designation _____

Specification Number _____

Serial Number _____

Accessory Number	Accessory Description
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Controller Identification

Record the controller description from the generator set operation manual, spec sheet, or sales invoice.

Controller Description _____

Engine Identification

Record the product identification information from the engine nameplate.

Manufacturer _____

Model Designation _____

Serial Number _____

This manual provides wiring diagrams for the 135–180GS/GSB Detroit Diesel Series 50 engine-powered generator sets and 200–275GS/GSB Detroit Diesel Series 60 engine-powered generator sets equipped with one of the following controllers:

- Digital 550
- Digital
- Microprocessor-Plus

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Service Assistance

For professional advice on generator power requirements and conscientious service, please contact your nearest DDC/MTU Power Generation distributor.

- Consult the Yellow Pages under the heading Generators—Electric
- Visit the DDC/MTU Power Generation website at ddcmtupowergeneration.com
- Look at the labels and stickers on your DDC/MTU Power Generation product or review the appropriate literature or documents included with the product

Wiring Diagrams

Use the Wiring Diagram Cross-Reference chart to determine the wiring diagram version number for a given model number and spec number. Then find that version number, the controller type, and the alternator type on the Wiring Diagrams Reference chart to determine the wiring diagram numbers for your unit.

Refer to Controller Identification for controller type identification, if necessary. Refer to the generator set nameplate for the alternator type. A wound field alternator is identified with a W as the last digit. Example: Gen. Model 4S11W.

Wiring Diagram Cross-Reference

Generator Set Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
135GS	50/60	PA-194001, 2, 5, 52, 54	1-1
135GS	50/60	GM16893-GA1S, 2S	1-2
135GSB	50/60	GM16893-GA1S, 2S	1-2
150GS	50/60	PA-194015-17, 20, 35-38, 55, 59, 65	1-1
150GS	50/60	GM16894-GA1S, 2S, 3S	1-2
150GSB	50/60	GM16894-GA1S, 2S, 3S	1-2
180GS	50/60	PA-194039-43, 72, 74, 76	1-1
180GS	50/60	GM16895-GA1S, 2S	1-2
180GSB	50/60	GM16895-GA1S, 2S	1-2
200GS	50/60	PA-194240-44, 85, 87, 89	2-1
200GS	50/60	GM16896-GA1S, 2S	2-2
200GSB	50/60	GM16896-GA1S, 2S	2-2
230GS	50/60	PA-194250-54, 95, 97, 99	2-1
230GS	50/60	GM16897-GA1S, 2S	2-2
230GSB	50/60	GM16897-GA1S, 2S	2-2
250GS	50/60	PA-194260-64, 303, 305	2-1
250GS	50/60	GM16898-GA1S, 2S	2-2
250GSB	50/60	GM16898-GA1S, 2S	2-2
275GS	50/60	PA-194270-74, 309, 311	2-1
275GS	50/60	GM16899-GA1S, 2S	2-2
275GSB	50/60	GM16899-GA1S, 2S	2-2

Note: Versions 1-1 and 2-1 use the Digital controller
 Versions 1-2 and 2-2 use the Digital 550 controller
 The GSB models have wound field or permanent magnet alternator options

135-180GS/GSB Wiring Diagrams Reference

Controller Description	Version 1-1	Page	Version 1-2	Page
Digital 550				
Point-to-Point Wiring Diagram				
Sheet 1	—		GM17422A-D	32
Sheet 2	—		GM17422B-D	33
Wound Field Alternator	—		GM35944-B	39
Permanent Magnet Alternator	—		GM35943-A	38
Schematic Diagram				
Sheet 1	—		ADV-6607A-C	20
Sheet 2	—		ADV-6607B-C	21
Wound Field Alternator	—		ADV-6958-A	27
Permanent Magnet Alternator	—		ADV-6957-	26
Accessory Connections				
Accessories	—		GM16088A-F	30
Remote Annunciator Kit	—		GM16088B-F	31
Digital				
Point-to-Point Wiring Diagram				
Sheet 1	347942A-G	44	—	
Sheet 2	347942B-D	45	—	
Schematic Diagram				
Sheet 1	ADV-6132A-E	14	—	
Sheet 2	ADV-6132B-B	15	—	
Sheet 3	ADV-6132C-B	16	—	
Sheet 4	ADV-6132D-C	17	—	
Accessory Connections				
Accessories	354246A-D	46	—	
Remote Annunciator Kit	354246B-D	47	—	
Microprocessor-Plus				
Point-to-Point Wiring Diagram				
Sheet 1	343024A-G	42	GM14231A-C	28
Sheet 2	343024B-G	43	GM14231B-C	29
Wound Field Alternator	—		GM35942-E	37
Permanent Magnet Alternator	—		GM35941-B	36
Schematic Diagram				
Sheet 1	ADV-6082A-F	12	ADV-6572A-C	18
Sheet 2	ADV-6082B-F	13	ADV-6572B-C	19
Wound Field Alternator	—		ADV-6956-C	25
Permanent Magnet Alternator	—		ADV-6955-A	24
Accessory Connections				
Accessories	328912A-G	40	328912A-G	40
Remote Annunciator 14-Relay Kit	328912B-G	41	328912B-G	41
Alternator Reconnections				
Permanent Magnet Alternator	ADV-5875A-F	10	ADV-5875A-F	10
Wound Field Alternator	—	11	ADV-5875B-F	11
Permanent Magnet/Wound Field Alternators, 4-Lead	ADV-5857-B	9	ADV-5857-B	9

Note: Version 1-1 uses the Digital controller
Version 1-2 uses the Digital 550 controller
Diagram 343024 replaces 343025
Diagram ADV-6082 replaces ADV-6083
The GSB models have wound field or permanent magnet alternator options

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Notes

