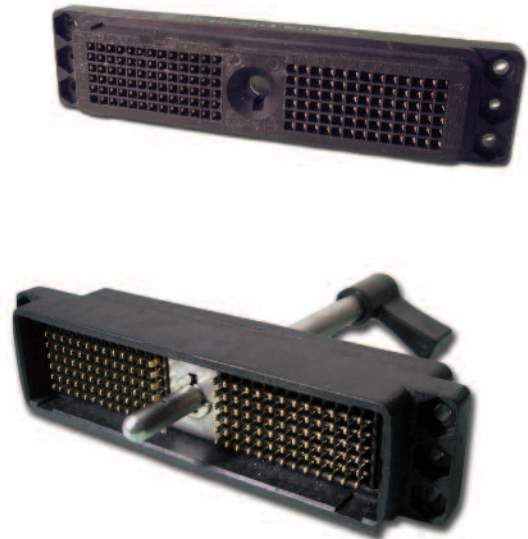


The Cannon DL Series of Zero Insertion Force (ZIF) connectors fill the need in the medical, commercial / industrial, computer, and peripheral equipment market places for low-cost, high performance, multiple-wire power and signal connectors.

DL connectors feature: a minimum rated life of 10,000 complete mating and unmating cycles with no performance loss; can be mated and unmated in less than two seconds even with as many as 2496 contacts; and they cost less (often as much as 25% less) per mated line than singular high-density rack-and-panel connectors.

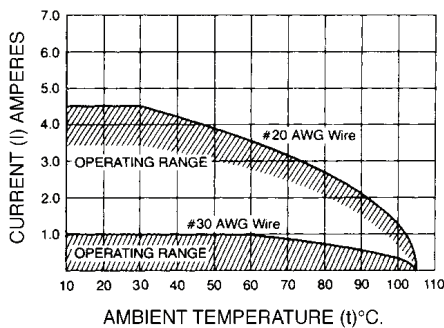
Simple. Effective. Reliable. Durable

Combining their special design with commercial-grade materials and low cost crimp, PCB, and wrappable hermaphroditic contacts, that may be hand or machine terminated, makes the DL Series of ZIF connectors the finest low-cost-per-mated-line I/O connectors available today.

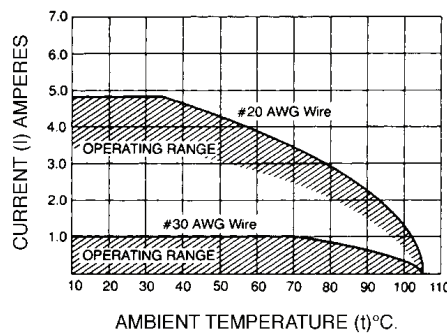


Derating Curves

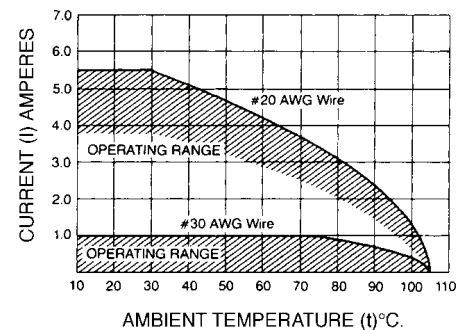
DL1



DL2



DL3



The ambient temperature curves shown represent the rated current carrying capacity of the Cannon DL1/2/3/4, electrical connectors, derated to 80% of the values recorded during the methods specified by International Electro-Technical Commission Document 48 (1975).

Current was applied to the total connector (all contacts) in one-half ampere increments and maintained at each current level until thermal stability was achieved. A thermocouple inserted into the "hottest area" of each connector then measured the connector temperature at the same time that an ambient temperature reading was taken. The difference between the two measured values is the heat rise or self-heating created solely by the current flow, and this temperature rise for the current level was deducted from the insulator material rated temperature. These values were then derated to 80% to obtain the curves shown.

Standard Materials and Finishes

DL Housing:	Glass Filled Thermoplastic, UL 94V-1 rated, Color: Black
Crimp Contacts and Square Post Contacts:	- Copper alloy, 20 or 50 microinches gold over 50 microinches nickel in mated area, gold flash on balance
Actuating Camshaft:	Stainless steel, Passivated
Insulator Retainer (Plug Only)	Stainless steel, Passivated

Electrical Data

No. of Contacts:	60, 96, 156, and 260 signal
Wire Size:	#18 AWG through #42 AWG
Contact Termination:	- Crimp - Square Post - Wrap Post - Buss - Pressfit

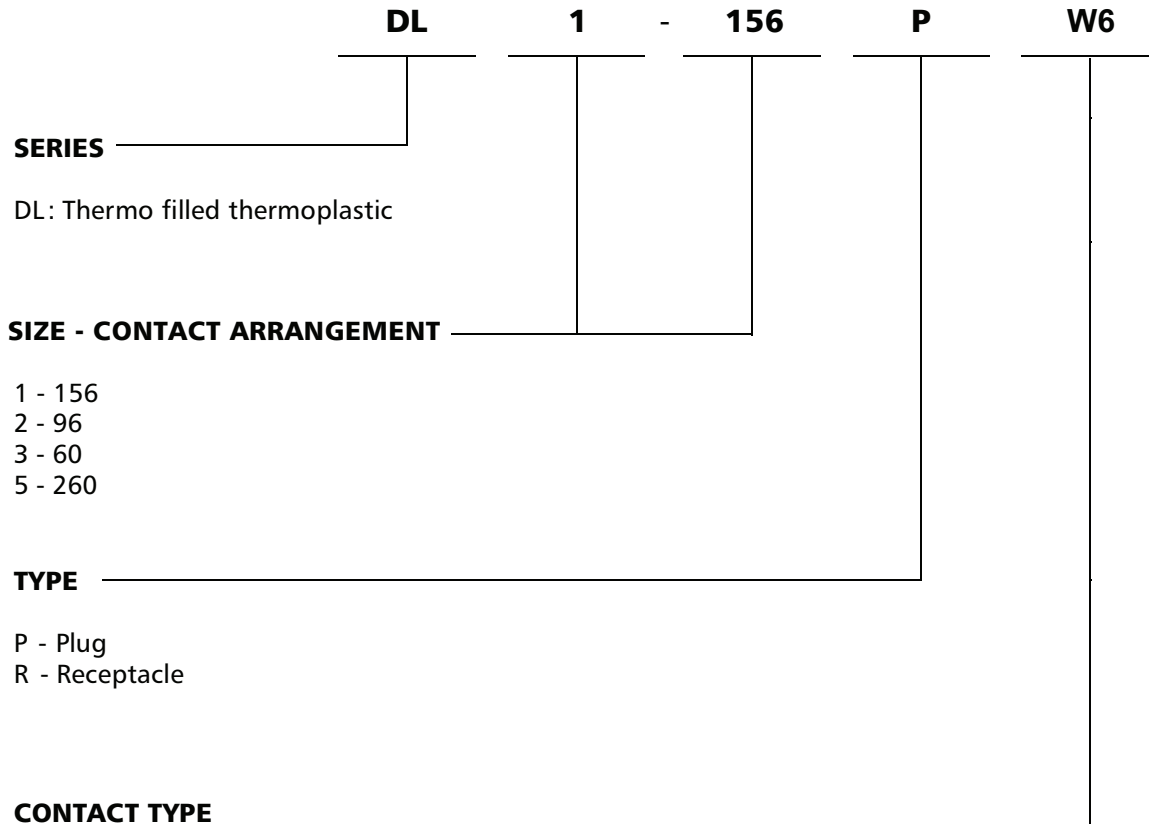
Mechanical Data

Actuation:	Single Hand
Coupling:	Rotating latch
Polarization:	Polarizing Posts
Contact Spacing:	2,54 (0.100) Square Grid
Shell Styles:	Plug and Receptacle

Performance Data

Current Rating:	5 A max - Crimp/Square Post/PCB contact 10 A, 20 A, 30 A, 40 A, 50 A, 60 A max - Buss contact
Dielectric Withstanding Voltage:	1200 VAC RMS - Crimp/Square Post Contact
Operating Temperature:	-55°C to 105°C (DL/DLM/DLD)
Insulation Resistance:	5000 Megaohms minimum
Durability:	10,000 Cycles minimum
Contact Resistance:	15 m Ω max. - Crimp/Square Post Contact 20 m Ω max. - Crimp #32 AWG - #30 AWG Contact
Insulation Resistance:	5000 M Ω min.
Wire Accommodation:	#42 AWG - #18 AWG
Contact Retention:	8 lb (35.585 N) minimum

How to Order



DL: Thermo filled thermoplastic

- 1 - 156
- 2 - 96
- 3 - 60
- 5 - 260

- P - Plug
- R - Receptacle

CONTACT TYPE

No letter - Crimp #18 thru #42 AWG
 TO BE ORDERED SEPARATELY AND INSTALLED BY CUSTOMER

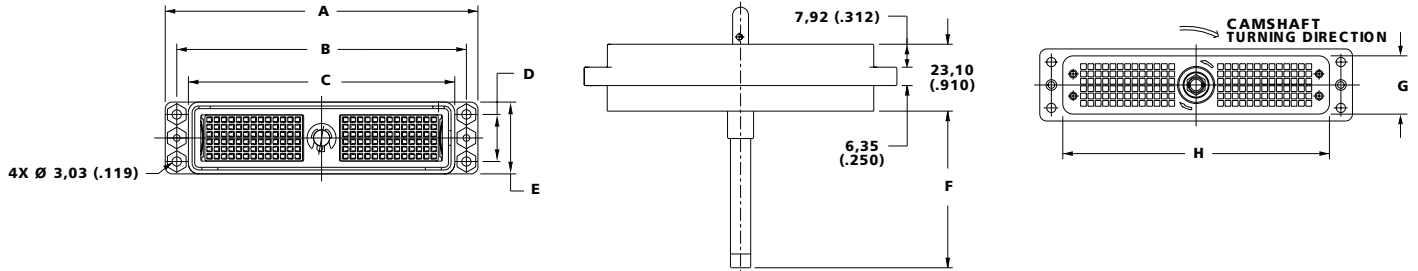
- W4 - Wrap Post 15,37 (0.605), 20 μ inches Gold
- W4A - Wrap Post 15,37 (0.605), 50 μ inches Gold, Plug only
- W4B - Wrap Post 15,37 (0.605), 50 μ inches Gold, Receptacle only
- W6 - Square Post 7,11 (0.280), 20 μ inches Gold
- W6A - Square Post 7,11 (0.280), 50 μ inches Gold, Plug only
- W6B - Square Post 7,11 (0.280), 50 μ inches Gold, Receptacle only
- W9A - Square Post 3,18 (0.125), 50 μ inches Gold, Plug only
- W9B - Square Post 3,18 (0.125), 50 μ inches Gold, Receptacle only
- F - Pressfit, 20 μ inches Gold, DL5 Receptacle only



Plug

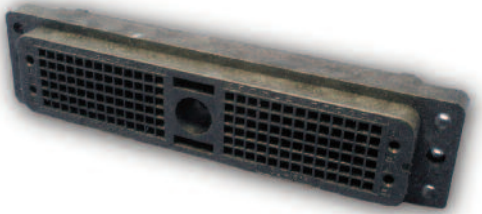


- Order Actuating Handle Kit sold separately, see page 44.
- Crimp Contacts are to be ordered separately and to be installed by customer, see pages 48-50.
- For contact cavity arrangements see pages 69-70.
- For panel cutout and mounting hole pattern, see page 66.
- For PC hole pattern, see pages 59-61.

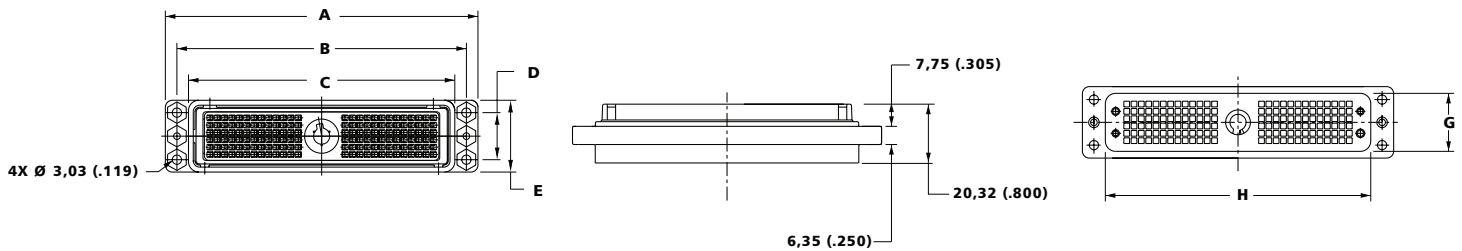


Description	A	B	C	D	E	F	G	H
DL3-60P	65,80 (2.592)	57,91 (2.280)	50,55 (1.992)	11,89 (0.466)	24,90 (0.981)	39,19 (1.543)	24,90 (0.981)	49,02 (1.931)
DL2-96P	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	39,19 (1.543)	24,05 (0.947)	50,60 (1.994)
DL1-156P	108,00 (4.255)	100,03 (3.938)	92,26 (3.631)	16,26 (0.640)	24,90 (0.980)	54,81 (2.158)	20,10 (0.792)	92,10 (3.626)
DL5-260P	108,00 (4.255)	100,03 (3.938)	92,26 (3.631)	26,00 (1.024)	35,00 (1.378)	54,26 (2.136)	30,30 (1.193)	92,10 (3.626)

Receptacle



- Crimp Contacts are to be ordered separately and to be installed by customer, see pages 48-50.
- For contact cavity arrangements see pages 69-70.
- For panel cutout and mounting hole pattern, see page 66.
- For PC hole pattern, see pages 59-61.



Description	A	B	C	D	E	G	H
DL3-60R	65,80 (2.592)	57,91 (2.280)	50,50 (1.988)	11,89 (0.468)	24,90 (0.981)	19,18 (0.755)	49,02 (1.931)
DL2-96R	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	24,05 (0.947)	50,60 (1.994)
DL1-156R	108,00 (4.255)	100,03 (3.938)	92,10 (3.622)	16,26 (0.640)	24,90 (0.980)	20,10 (0.792)	92,10 (3.626)
DL5-260R	108,00 (4.255)	100,03 (3.938)	92,10 (3.622)	26,00 (1.024)	35,00 (1.378)	30,30 (1.193)	92,10 (3.626)

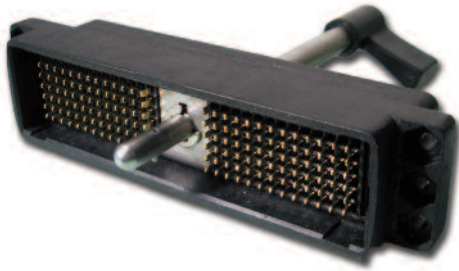
Notes:
Crimp contacts are to be ordered separately and to be installed by customer, see pages 49-50.

Dimensions shown in mm (inch)
Specifications and dimensions subject to change

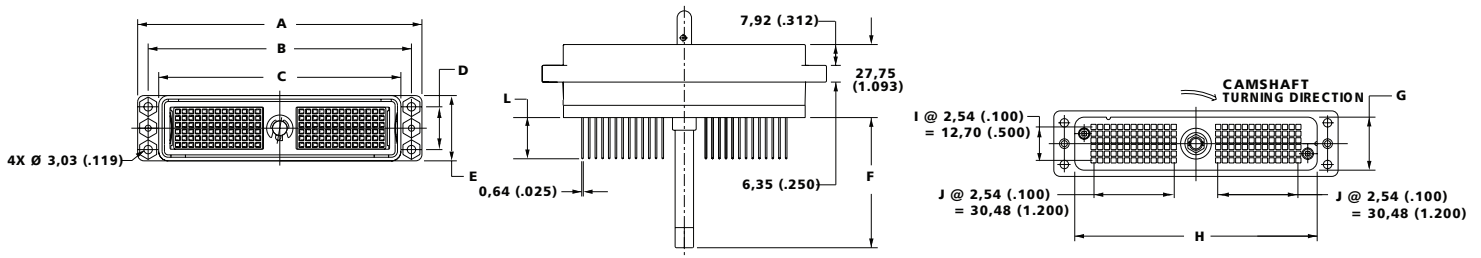
Cannon ZIF Connectors

DL - Plastic Body - Square / Wrap Post Contacts

Plug



- Order Actuating Handle Kit sold separately, see page 44.
- For contact cavity arrangements see pages 69-70.
- For panel cutout and mounting hole pattern, see page 66.
- For PC hole pattern, see pages 59-61.



Description	A	B	C	D	E	F	G	H	I	J	L
DL3-60PW4 DL3-60PW4A	65,80 (2.592)	57,91 (2.280)	50,55 (1.992)	11,89 (.468)	24,90 (.981)	34,54 (1.360)	19,94 (.785)	49,02 (1.931)	5 spaces	4 spaces	15,37 (.605)
DL3-60PW6 DL3-60PW6A	65,80 (2.592)	57,91 (2.280)	50,55 (1.992)	11,89 (.468)	24,90 (.981)	34,54 (1.360)	19,94 (.785)	49,02 (1.931)	5 spaces	4 spaces	7,11 (.280)
DL3-60PW9A	65,80 (2.592)	57,91 (2.280)	50,55 (1.992)	11,89 (.468)	24,90 (.981)	34,54 (1.360)	19,94 (.785)	49,02 (1.931)	5 spaces	4 spaces	3,18 (.125)
DL2-96PW4 DL2-96PW4A	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	34,54 (1.360)	24,05 (.947)	50,60 (1.994)	7 spaces	6 spaces	15,37 (.605)
DL2-96PW6 DL2-96PW6A	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	34,54 (1.360)	24,05 (.947)	50,60 (1.994)	7 spaces	6 spaces	7,11 (.280)
DL2-96PW9A	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	34,54 (1.360)	24,05 (.947)	50,60 (1.994)	7 spaces	6 spaces	3,18 (.125)
DL1-156PW4 DL1-156PW4A	108,00 (4.255)	100,03 (3.983)	92,26 (3.631)	16,26 (.640)	24,90 (.981)	50,16 (1.975)	20,10 (.792)	92,10 (3.626)	5 spaces	12 spaces	15,37 (.605)
DL1-156PW6 DL1-156PW6A	108,00 (4.255)	100,03 (3.983)	92,26 (3.631)	16,26 (.640)	24,90 (.981)	50,16 (1.975)	20,10 (.792)	92,10 (3.626)	5 spaces	12 spaces	7,11 (.380)
DL1-156PW9A	108,00 (4.255)	100,03 (3.983)	92,26 (3.631)	16,26 (.640)	24,90 (.981)	50,16 (1.975)	20,10 (.792)	92,10 (3.626)	5 spaces	12 spaces	3,18 (.125)
DL5-260PW4 DL5-260PW4A	108,00 (4.255)	100,03 (3.983)	92,26 (3.631)	26,00 (1.024)	35,00 (1.378)	49,61 (1.953)	30,30 (1.193)	92,10 (3.626)	9 spaces	12 spaces	15,37 (.604)
DL5-260PW6 DL5-260PW6A	108,00 (4.255)	100,03 (3.983)	92,26 (3.631)	26,00 (1.024)	35,00 (1.378)	49,61 (1.953)	30,30 (1.193)	92,10 (3.626)	9 spaces	12 spaces	7,11 (.280)
DL5-260PW9A	108,00 (4.255)	100,03 (3.983)	92,26 (3.631)	26,00 (1.024)	35,00 (1.378)	49,61 (1.953)	30,30 (1.193)	92,10 (3.626)	9 spaces	12 spaces	3,18 (.125)

Notes:
Front removable 0,64 (0.025) square posts 2,54 (0.100) Centers.
1 space at 2,54 (0.100)

Dimensions shown in mm (inch)
Specifications and dimensions subject to change

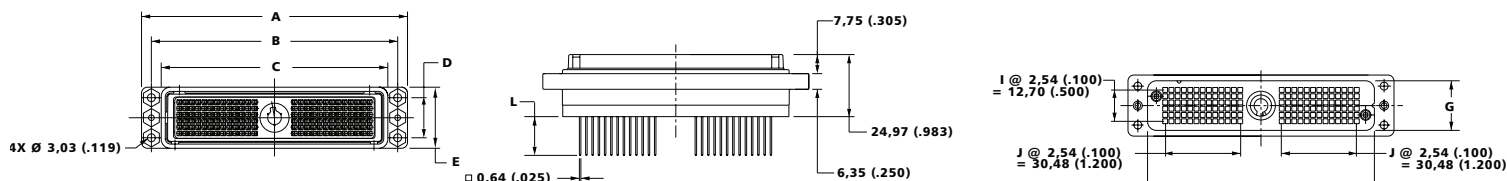


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Receptacle



- For contact cavity arrangements see pages 69-70.
- For panel cutout and mounting hole pattern, see page 66.
- For PC hole pattern, see pages 59-61.



Description	A	B	C	D	E	G	H	I	J	L
DL3-60RW4 DL3-60RW4B	65,80 (2.592)	57,91 (2.280)	50,50 (1.988)	11,89 (.466)	24,90 (.980)	19,94 (0.785)	49,02 (1.931)	5 spaces	4 spaces	15,37 (.605)
DL3-60RW6 DL3-60RW6B	65,80 (2.592)	57,91 (2.280)	50,50 (1.988)	11,89 (.466)	24,90 (1.360)	19,94 (.785)	49,02 (1.931)	5 spaces	4 spaces	7,11 (.280)
DL3-60RW9B	65,80 (2.592)	57,91 (2.280)	50,50 (1.988)	11,89 (0.466)	24,90 (1.360)	19,94 (.785)	49,02 (1.931)	5 spaces	4 spaces	3,18 (.125)
DL2-96TW4 DL2-96RW4B	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	24,05 (.947)	50,60 (1.994)	7 spaces	6 spaces	15,37 (.605)
DL2-96RW6 DL2-96RW6B	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	24,05 (.947)	50,60 (1.994)	7 spaces	6 spaces	7,11 (.280)
DL2-96RW9B	65,80 (2.592)	57,91 (2.280)	50,60 (1.994)	19,38 (.763)	28,12 (1.108)	24,05 (.947)	50,60 (1.994)	7 spaces	6 spaces	3,18 (.125)
DL1-156RW4 DL1-156RW4B	108,00 (4.255)	100,03 (3.983)	92,00 (3.622)	16,26 (.640)	24,90 (.980)	20,10 (.792)	92,10 (3.626)	5 spaces	12 spaces	15,37 (.605)
DL1-156RW6 DL1-156RW6B	108,00 (4.255)	100,03 (3.983)	92,00 (3.622)	16,26 (.640)	24,90 (.980)	20,10 (.792)	92,10 (3.626)	5 spaces	12 spaces	7,11 (.380)
DL1-156RW9B	108,00 (4.255)	100,03 (3.983)	92,00 (3.622)	16,26 (.640)	24,90 (.980)	20,10 (.792)	92,10 (3.626)	5 spaces	12 spaces	3,18 (.125)
DL5-260RW4 DL5-260RW4B	108,00 (4.255)	100,03 (3.983)	92,00 (3.622)	26,00 (1.024)	35,00 (1.378)	30,30 (1.193)	92,10 (3.626)	9 spaces	12 spaces	15,37 (.604)
DL5-260RW6 DL5-260RW6B	108,00 (4.255)	100,03 (3.983)	92,00 (3.622)	26,00 (1.024)	35,00 (1.378)	30,30 (1.193)	92,10 (3.626)	9 spaces	12 spaces	7,11 (.280)
DL5-260RW9B	108,00 (4.255)	100,03 (3.983)	92,00 (3.622)	26,00 (1.024)	35,00 (1.378)	30,30 (1.193)	92,10 (3.626)	9 spaces	12 spaces	3,18 (.125)

Notes:

Front removable 0,64 (0.025) square posts 2,54 (0.100) Centers.

1 space at 2,54 (0.100)

Receptacle only



- For contact cavity arrangements see page 70.
- For panel cutout and mounting hole pattern, see page 66.
- For PC hole pattern, see page 62.

Part Number	Nomenclature
11987-0008	DL5-260R-F

