



service bulletin

TO: SERVICE MANAGER TECHNICIANS
PARTS MANAGER

No. 97-12

Battery and Battery Cable Requirements for MerCruiser D-tronic Diesels

Models

D-Tronic D2.8L, D4.2L and D7.3L

Situation

With the installation of the above mentioned engines, the battery and battery cable requirements listed below must be followed. Failure to do so could cause starting and or running problems with the engine and the electronics on the engines.

IMPORTANT: It is recommended (required in some areas) that the battery be installed in an enclosed case. Refer to regulations for your area.

IMPORTANT: Engine electrical system is negative (-) ground.

D-Tronic D2.8L and D4.2L

Engine (Cyl./Type)	CID (L)	Minimum Required Cranking Battery Size
4 In-Line	169 (2.8)	750cca, 950mca, or 180 Ah
6 In-Line	254 (4.2)	750cca, 950mca, or 180 Ah

D-Tronic D7.3L

Engine (Cyl./Type)	CID (L)	Minimum Required Cranking Battery Size
V-8	444 (7.3)	1500 cca, or 300 Ah

Battery Cables: Select proper size positive (+) and negative (-) battery cables, using chart. Battery should be located as close to engine as possible.

IMPORTANT: Terminals must be soldered to cable ends to ensure good electrical contact. Use electrical grade (resin flux) solder only. Do not use acid flux solder, as it may cause corrosion and a subsequent failure.

Battery Cable Requirements for D-tronic D2.8L and D4.2L on following page.

Battery Cable Requirements for D-tronic D2.8L and D4.2L

Battery Cable Length	Minimum Cable Gauge
Up to 3 ft. (0.9m)	2 (35mm ²)
3 - 3-3/4 ft. (0.9 - 1.1m)	1 (50mm ²)
3-3/4 - 4-3/4 ft. (1.1 - 1.4m)	0 (50mm ²)
4-3/4 - 6 ft. (1.4 - 1.8m)	00 (70mm ²)
6 - 7-1/2 ft. (1.8 - 2.3m)	000 (95mm ²)
7-1/2 - 9-1/2 ft. (2.3 - 2.9m)	0000 (120mm ²)
9-1/2 - 12 ft. (2.9 - 3.7m)	▲ 00 (70mm ²)
12 - 15 ft. (3.7 - 4.6m)	▲ 000 (95mm ²)
15 - 19 ft. (4.6 - 5.8m)	▲ 0000 (120mm ²)

▲ :Two cables of specified gauge required for positive and two required for negative.

Battery Cable Requirements for D-tronic D7.3L

Battery Cable Length	Minimum Cable Gauge
Up to 3 ft. (0.9m)	2 (35mm ²)
3 - 3-3/4 ft. (0.9 - 1.1m)	1 (50mm ²)
3-3/4 - 4-3/4 ft. (1.1 - 1.4m)	0 (50mm ²)
4-3/4 - 6 ft. (1.4 - 1.8m)	00 (70mm ²)
6 - 7-1/2 ft. (1.8 - 2.3m)	000 (95mm ²)
7-1/2 - 9-1/2 ft. (2.3 - 2.9m)	0000 (120mm ²)
9-1/2 - 12 ft. (2.9 - 3.7m)	▲ 00 (70mm ²)
12 - 15 ft. (3.7 - 4.6m)	▲ 000 (95mm ²)
15 - 19 ft. (4.6 - 5.8m)	▲ 0000 (120mm ²)

▲ :Two cables of specified gauge required for positive and two required for negative.