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Technical Update

#48, July 2002 Interchangeability of Regulators with Load Response Control (LRC)

Shorter LRC Value	Longer LRC Value
Delco CS130, CS144 Series	
35-127 , P-L-I-S, 2.5 sec. LRC	35-136 , P-L-I-S, 10 sec. LRC
35-117 , P-L-F-S, 2.5 sec. LRC	35-122 , P-L-F-S, 10 sec. LRC
Delco CS130D Series	
35-132 , P-L-I-S, 2.5 sec. LRC	35-133 , P-L-I-S, 10 sec. LRC
Ford 3G Series	
35-204 , D-Shape Plug, wo/ LRC	35-207 , D-Shape Plug, 6 sec. LRC
35-206 , Square Plug, wo/ LRC	35-209 , Square Plug, 5 sec. LRC
Ford 4G Series	
35-210 , wo/ LRC	35-208 , 6 sec. LRC

The question about replacing regulators with different Load Response Control (LRC) values has come up several times on Delco and Ford applications.

The regulator load-response control (LRC) feature gradually applies the electrical load and eliminates the rough engine idling and vibration caused by a sudden electrical load drawing on the engine torque at low RPM's.

Interchanging regulators with different LRC values is normally not recommended but you can replace a shorter LRC value regulator with a longer LRC value regulator. For example, a 2.5 sec. LRC regulator could be replaced with a 10 sec. LRC regulator. However, it is not recommended that you replace a 10 sec. LRC regulator with a 2.5 sec. LRC regulator. Using the shorter LRC value regulator in place of the longer LRC value could invite customer complaints in the form of engine stumble and vibration due to a charging system load coming on too quickly.

For some applications, such as snow plows that are subjected to heavy loads, substituting a regulator with a longer LRC value is an enhancement, resulting in longer belt life.

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