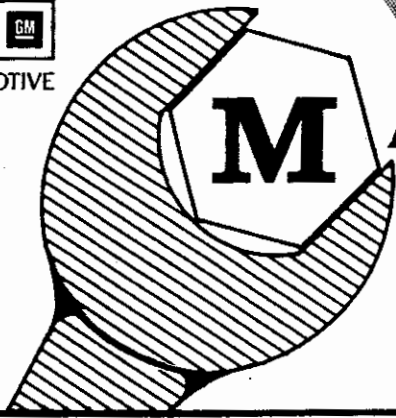




M.I. 9673



# MAINTENANCE INSTRUCTION

## MODERNIZATION RECOMMENDATION INJECTOR 5226210 FOR 645F3B ENGINES

**PURPOSE:** To improve power assembly reliability and durability, and engine efficiency.

**APPLICATION:** All 8, 12, and 16 cylinder model 645F3B engines.

**DISCUSSION:** EMD recommends that all 8, 12, and 16 cylinder 645F3B engines with 5229710 (Utex 9333858) injectors be changed to 5226210 (Utex 9561950) injectors, to improve power assembly reliability and durability, and engine efficiency. When the new 5226210 injectors are installed in 8 and 16 cylinder engines, they are to be timed at top dead center and timing plate 8493708 (2° ATC timing) replaced by timing plate 8290819 (0° TDC timing). Four 3/16" diameter flat head rivets 193933 are required to affix each timing plate in .098" diameter holes located from the plate.

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The 12-cylinder 645F3B rail engines should have the injectors timed at two degrees after top dead center and timing plate 9547677 applied because of their higher rating per cylinder.

### NOTE

Whenever a 645F3 engine is upgraded to a 645F3B configuration, injector 5226210 is recommended.

Injectors 5229710 can be reworked to injectors 5226210 by replacing the present plunger-bushing assembly with the new plunger-bushing assembly 5226464.

The injectors should be replaced in complete engine sets, timed correctly, and the timing plate changed as noted.

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Electro-Motive Division Of General Motors La Grange, Illinois 60525