Service Manual

8.2 LITER ENGINE



mmmmmmmm—

Additionat copies of this service manual may be purchased from Detroit Diesel Allison Distributors. See your yellow pages—under Engines, Diesel.

FOREWORD

This manual contains instructions on the overhaul, maintenance and operation of the new Fuel Pincher Detroit Diesel Engine.

Full benefit of the long life and dependability built into these engines can be realized through proper operation and maintenance. Of equal importance is the use of proper procedures during engine overhaul.

Personnel responsible for engine operation and maintenance should study the sections of the manual pertaining to their particular duties. Similarly, before beginning a repair or overhaul job, the serviceman should read the manual carefully to familiarize himself with the parts or sub-assemblies of the engine with which he will be concerned.

The information, specifications and illustrations in this publication are based on the information in effect at the time of approval for printing. This publication is revised and reprinted periodically. It is recommended that users contact an authorized *Detroit Diesel Allison Service Outlet* for information on the latest revisions. The right is reserved to make changes at any time without obligation.

CAUTION

The Fuel Pincher Engines contain many parts dimensioned in the metric system as well as in the customary system. Many fasteners are metric and are very close in dimension to familiar customary fasteners in the inch system. It is important to note that, during any maintenance procedures, replacement fasteners must have the same measurements and strength as those removed, whether metric or customary. (Numbers on the heads of metric bolts and on surfaces of metric nuts indicate their strength. Customary bolts use radial lines for this purpose, while most customary nuts do not have strength markings). Mismatched or incorrect fasteners can result in engine damage or malfunction or possibly personal injury, fasteners removed from the engine should be saved for re-use in the same locations whenever possible. Where the fasteners are not satisfactory for re-use, care should be taken to select a replacement that matches the original. For information and assistance, see your Detroit Diesel Allison Service Outlet.

TABLE OF CONTENTS

SUBJECT	SECTION
GENERAL INFORMATION	
ENGINE (less major assemblies)	1
FUEL SYSTEM AND GOVERNOR	2
AIR INTAKE SYSTEM	3
LUBRICATION SYSTEM	4
COOLING SYSTEM	5
EXHAUST SYSTEM	6
ELECTRICAL EQUIPMENT, INSTRUMENTS AND PROTECTIVE SYSTEMS	7
SPECIAL EQUIPMENT	12
OPERATION	13
TUNE-UP	14
PREVENTIVE MAINTENANCE, TROUBLE SHOOTING	15

General Information FUEL FINCHER

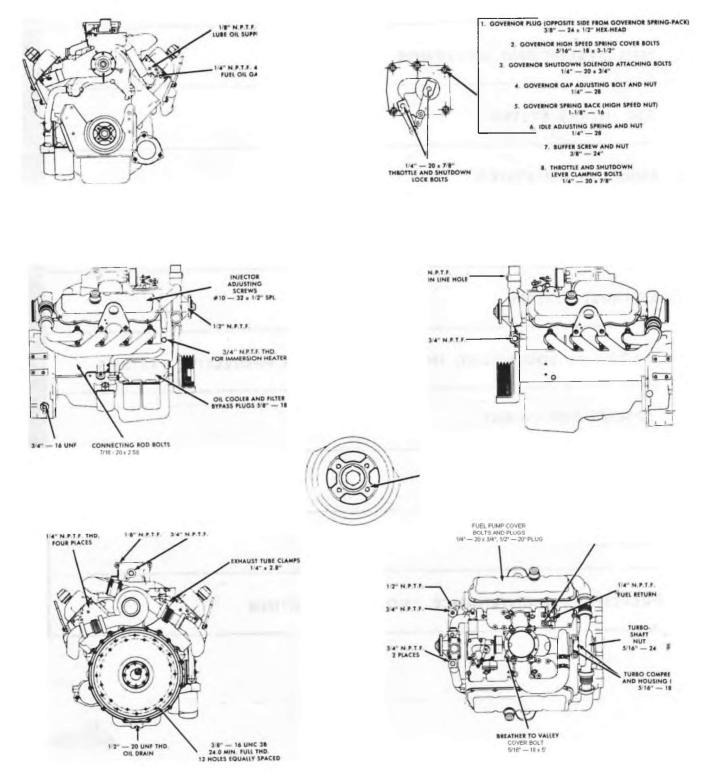


Fig. 1 — Customary Fasteners