

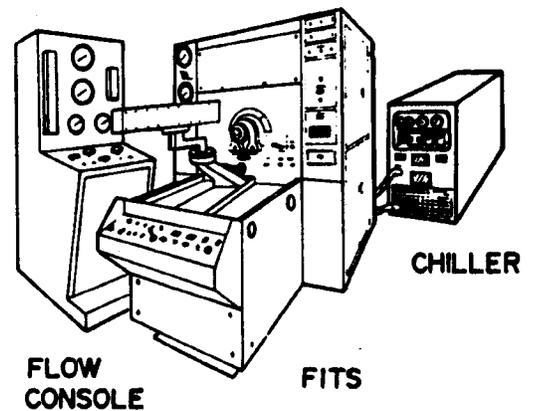
Chapter 1

An Introduction to the A8020 Fuel Injection Test Stand (FITS)

1.1 THE A8020 FUEL INJECTION TEST STAND

The A8020 Fuel Injection Test Stand (FITS) (NSN 4910-01-194-7667) is designed to test and calibrate diesel injection pumps with fuel deliveries up to 400 mm³/stroke. The components of the complete A8020 FITS [Becharach Part Number (BPN) 74-8000] are:

- a fuel injection test stand including a self-contained and controlled water chiller (BPN 74-7104),
- Basic Master Accessories (BPN 74-8001),
- a set of six ADN 12SD12C test nozzles (BPN 74-8021),
- and, four adapter kits:
 - * to test Cummins PT pumps (kit consists of a Flowconsole Test Panel (BPN 74-7105) and Accessories (BPN 74-8022)),
 - * to test UIDS PSB4A110EH5340D2, PSB6A90EH..., and PSB12BT... pumps (BPN 74-8017 (2 boxes)),
 - * to test the following Stanadyne pumps (BPN 74-8018),
 - DB2633JT4255W
 - DBGFC631-19AE
 - DBGVC437-2AL
 - DEMFC433/633-1LK
 - DBGFC4311-24AJ, -29AJ
 - JDB431-AL2410



- DGFQR631-10C
- DCMFO629-ZLQ

* and, to test Stanadyne DB2829XL4267 pumps (EPN 74-8019).

NOTE

Throughout this instruction manual we refer to the fuel injection test stand as the FITS, and the self-contained and controlled cold water chiller as the Chiller.

1.2 BASIC MASTER ACCESSORIES

The Basic Master Accessories contain common parts, fittings, hoses, overload relays, and miscellaneous items necessary to connect injection pumps. Parts are identified in a packaging drawing placed inside the storage box lid. Also, for safe storage, use this drawing to identify the proper place for each part in the molded foam when returning parts to the box.

A copy of the packaging drawing, Figure FO-1, is included in this manual for your convenience.

An instructional video tape describes the basic operation of the FITS. In addition to reading Chapter 3, Operation in this manual, review the video tape before using the FITS.



**BASIC MASTER
ACCESSORIES**