TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST

FOR

TEST SET, DIESEL INJECTOR (BACHARACH INSTRUMENT COMPANY) (NSN 4910-00-317-8265)

HEADQUARTERS, DEPARTMENT OF THE ARMY
OCTOBER 1981

This manual contains copying material

Technical Manual

No. 9 4910-604-14&P

HEADQLARTERS
DEPARI MENT OF THE ARMY
Washington DC, 15 October 1981

Operator's, Organizational, Direct Support
and General Support Maintenance Manual
Including Repair Parts List
For

TEST SET, DIESEL INJECTOR
(NSN 4910-00-317-8265)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find-any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual direct to: Commander, LIS Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, II. 61299. A reply will be furnished direct to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this diesel injector test set is Issued.

Manufactured by: Bacharach Instrument Company
625 Alpha Drive
Pittsburgh, PA 15238

Procured under Contract No. DAAA09-75-C-6725

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

INSTRUCTIONS FOR REQUISITIONING PARTS

NOT IDENTIFIED BY NSN

When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

1 - Manufacturer's Federal Supply Code Number - 05083

2 - Manufacturer's Part Number exactly as listed herein.

3 - Nomenclature exactly as listed herein, including dimensions, if necessary.

4 - Manufacturer's Model Number -

5 - Manufacturer's Serial Number (End Item)

6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.

7 - If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

(a) In blocks 4, 5, 6, list manufacturer's Federal Supply Code Number - 05083 followed by a colon and manufacturer's Part Number for the repair part.

(b) Complete Remarks field as follows:

Noun: (nomenclature of repair part)
For: NSN: 4910-00-317-8265
Manufacturer: Bacharach Instrument Company
625 Alpha Drive
Pittsburgh, PA 15238
Model:
Serial: (of end item)

Any other pertinent information such as Frame Number, Type, Dimensions, etc.

TABLE OF CONTENTS

	PAGE
INSTRUCTIONS	2
GENERAL FACILITIES	2
APPLICATION OF TOOLS	4
CONNECTOR SET 44 INSTRUCTIONS	9
TEXT FIXTURE AND NOZZLE TESTER INFORMATION	10
TESTING INJECTORS	10
MAINTENANCE AND OPERATING INSTRUCTIONS	16
DIESEL NOZZLE TESTER-GENERAL REMARKS	17
OPERATING PROCEDURE	17
USE OF OUTLETS	17
LEAKAGE AND DISCHARGE VALVE REPLACEMENT	18
STARVATION AND FILTER REPLACEMENT	18
SPECIAL TEST OILS	18
PARTS LIST FOR NOZZLE TESTER	19
INJECTOR TEST SET WARNING	20
INSTALLING SEAT BLOCKS	21
PREPARING FOR TEST	22
INJECTOR TESTS	22
ADDITIONAL TESTS FOR NEEDLE VALVE INJECTORS	23
MAINTENANCE	23
PARTS LIST FOR TEST FIXTURE	25

INSTRUCTIONS

FOR USE OF NOZZLE-INJECTOR CLEANING TOOLS

These tools are intended as cleaning aids and should be used only to remove foreign particles or deposits detrimental to operation of fuel injection nozzles. Proper lapping blocks for removal of heat and other surface discolorations or small pits on flat sealing surfaces are available as separate items.

Such operations as lapping valve seats and regrinding nozzle valves are special operations, requiring more tools than provided, and, unless operator is equipped to do such work, should not be attempted.

Injectors should be dismantled and cleaned in accordance with manufacturer's recommendations, both as to cleaning methods and tools. Cleanliness is all important and no detail, however small, should be neglected to insure and maintain clean air, oil and surroundings. Dirt particles too small to be seen without magnification are still large enough to cause serious damage to fuel injection equipment.

GENERAL FACILITIES

A separate room for fuel injection work, supplied only with clean, filtered air, is preferable. If this is done, and room air is maintained at pressure slightly above atmosphere, airborne dirt cannot enter from outside atmosphere. If separate room specification cannot be met, choose isolated corner in shop; this corner should be kept clean and shop traffic kept to minimum .

Be as clean as possible; use clean tools; keep work bench clean; wear shop coats or coveralls, heavily starched