

TM 9-4910-644-14&P

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INLCUDING REPAIR PARTS LIST)**

FOR

LIGHT, IGNITION TIMING

PN 7710

(HYDRAULIC TECHNOLOGY, INC.)

(NSN 4910-00-255-1449)

**HEADQUARTERS, DEPARTMENT OF THE ARMY
JULY 1981**

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 15 July 1981

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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, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 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 timing light is issued.

Manufactured by: HYDRAULIC TECHNOLOGY, INC.
9725 Lurline Avenue
Chatsworth, CA 91311

Procured under Contract No. DAAA09-77-C-6178

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 - 29516
- 2 - Manufacturer's Part Number exactly as listed herein. PN 7710
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number - Model
- 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 - 29516 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: 4910-00-255-1449
Manufacturer: Hydraulic Technology, Inc.

Model:
Serial: (of end item)

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

TECHNICAL MANUAL

INSTRUCTIONS AND PARTS BREAKDOWN

1-1. GENERAL.

This manual is the basic publication covering the operation, maintenance and parts breakdown for the Light, Ignition Timing, 4910-00-255-1449, PN 7710.

1-2. DESCRIPTION.

The timing light is a battery operated portable device which is completely self contained in a steel case and cover assembly. All of the operating components are mounted on the removable front panel. The unit is normally shipped without batteries. Overall dimensions are 8 by 4-1 2 by 2-1 2 inches deep.

1-3. PREPARATION FOR USE.

Prior to initial use, fresh batteries must be installed. For battery installation see paragraph 1-10.

1-4. PURPOSE OF EQUIPMENT.

The timing light is used to indicate the point of opening of the breaker points in a magneto or other ignition system. The timing light is a dual device and may be used to time a single magneto system or to time and synchronize the points of a dual magneto system. The instant of opening of the points is indicated by the extinguishing of neon glow lamps.

1-5. OPERATING INSTRUCTIONS.

Place switch to the ON position, both neon lamps will glow. Momentarily short each red (positive) lead, in turn, to the black (negative) lead. This will extinguish its respective neon lamp and indicate proper operation.

1-6. TO TIME A MAGNETO.

a. Connect the black lead to the magneto housing ground. Connect either red lead to the breaker points primary terminal. Switch ON.

b. One neon lamp will glow when the points are open and will be extinguished when the points close. As the engine is rotated in the proper direction, the lamp will remain off during the dwell period and come on at the instant the breaker points open.

1-7. TO SYNCHRONIZE TWO (2) MAGNETOS OR A SECOND SET OF BREAKERS IN A DUAL MAGNETO.

a. Following the same procedure as paragraph 1-6, connect the other red lead to the primary of the other magneto or second set of points.