

TM 9-4910-585-14&P

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS LIST
FOR
LIGHT, IGNITION TIMING (MAGNETO)
MODEL NO. 235
(AUTO TEST)
(NSN 4910-00-255-1449)**

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

Technical Manual

NO. 9-4910-585-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 10 November 1981

**Operator's, Organizational, Direct Support
and General Support Maintenance Manual
(Including Repair Parts List)**

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MODEL NO. 235
(NSN 4910-00-255-1449)**

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 Material Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly 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: AUTO TEST
411 W. 8th Street
Neillsville, WI 54456

Procured under Contract No. DAAA09-76-C-6351

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.

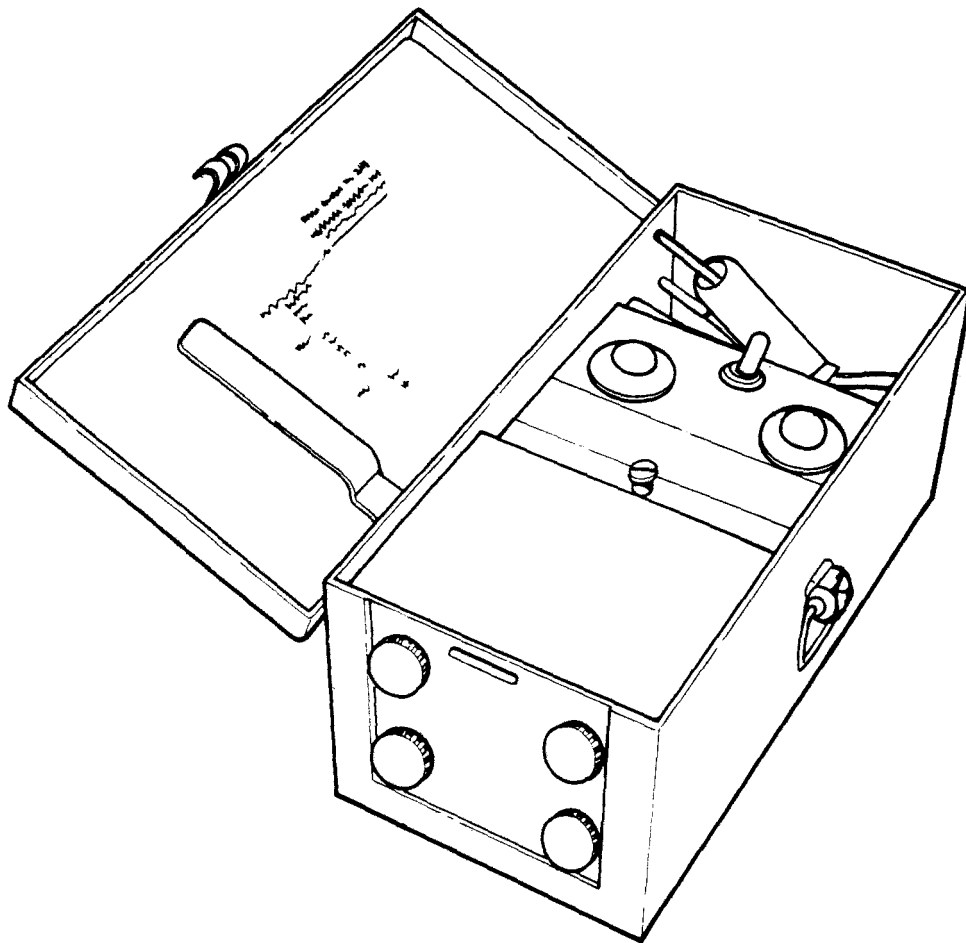
- 1 - Manufacturer's Federal Supply Code Number - 3D233
- 2 - Manufacturer's Part Number exactly as listed herein.
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number - Model No. 235
- 5 - Manufacturer's Serial Number (End Item)
- 6 - Any 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 - 3D233 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: Auto Test

Model: No. 235
Serial: (of end item)

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



LIGHT, IGNITION TIMING (MAGNETO)

MODEL 235
NSN 4910-00-255-1449

MODEL NO. 235
MAGNETO TIMING LIGHT

PURPOSE

The Model No. 235 timing instrument has been designed to visually indicate, either singly or simultaneously, the synchronization of magnetos in a single or dual ignition system.

OPERATING INSTRUCTIONS

It is important to refer to the applicable engine manual for the specific engine being worked on and for detailed breaker point adjustment procedures.

Insert batteries (two size D dry cells) in accordance with instructions in the BATTERY POWER SUPPLY section of this manual.

INSTRUMENT APPLICATIONS

a. TO TIME SINGLE MAGNETO

- (1) Connect the BLACK (common/negative) lead to ground on magneto primary.
- (2) Connect either one of the RED (positive) leads to magneto primary.
- (3) Place switch to the ON position.
- (4) Crank or rotate the magneto breaker cam slowly.
- (5) When a lamp glows, the magneto points are open.

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

- (1) Following the same procedure as above, connect the other RED lead to the primary of the other magneto or second set of points.
- (2) Crank or rotate magneto breaker cam slowly.
- (3) When both sets of points of the magneto are open, both indicator lamps will glow. When one set of points closes, the one corresponding lamp goes out.