

AMERICAN BOSCH CORPORATION, SPRINGFIELD, MASS., U. S. A.

AMERICAN BOSCH PRODUCTS

REPAIR INSTRUCTIONS FOR AMERICAN BOSCH HIGH TENSION MAGNETO TYPE DU

TRADE



MARK

The Types DU4/2, DU4 and DU5 Magnetos are of the high tension series, and are used respectively on two, four and six-cylinder engines of the automobile type, in motor car, marine, tractor and stationary service.



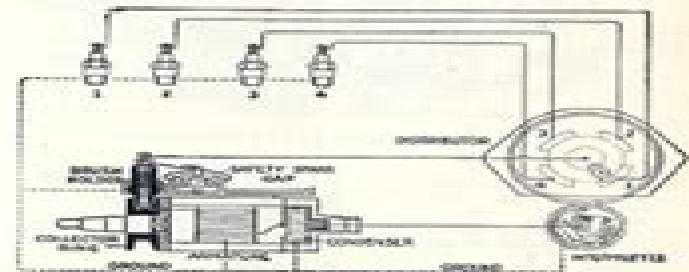
The Type DU magnetos are usually employed as sole ignition on an engine, or, in some cases, in connection with a battery system operating on a separate set of spark plugs. The DU magnetos, without alteration, are also employed to provide battery and magneto ignition on one set of spark plugs, this being accomplished by means of the American Bosch Vibrating Duplex Ignition System, a separate booklet describing which may be had on request. The American Bosch Independent Magnetos, DU type, are those described in this booklet.

Generation of Current

Like other American Bosch High Tension Magnetos, the type DU generate their own high tension current directly in the magneto armature (the rotating member of the magneto), without the aid of a separate step-up coil, and have their timer and distributor integral.

The armature winding is composed of two sizes of wire, one size comparatively heavy and the other very fine. The heavy wire is the primary or low tension circuit, and the very fine wire, the secondary or high tension circuit.

The rotation of the armature between the poles of strong permanent magnets creates or induces a current in the armature primary circuit, and this is further augmented at every 180° revolution of the armature shaft by the abrupt interruption of the primary circuit by means of the magneto interrupter. At the opening of the primary circuit, the resulting discharge of current from that circuit induces a current of high voltage in the armature secondary circuit. The high tension current thus created is collected by the collector brush on the armature and passed to the collector brush, then to the various magneto distributor terminals,



Circuit Diagram Type DU-4 Magneto

Note: Spark plugs must be connected in accordance with firing order of engine.

each of which is connected by cable to the spark plug in its respective cylinder.

Safety Spark Gap

In order to protect the armature and other current carrying parts, a safety spark gap is provided.

The safety spark gap is arranged on the dust cover over the armature, and consists of two short pointed electrodes supported a short distance from each other; one electrode is set on the dust cover itself and inclosed by a metal and wire gauge housing, while the other, an insulated electrode, is set in the center of the crevice cover of the safety spark gap housing and connected into the secondary circuit of the magneto.

Under ordinary conditions, the current will follow its normal path to the spark plug, but if for any reason the electrical resistance in the secondary circuit is increased to a high point, as when a cable becomes disconnected or a spark plug gap too wide, the high tension current will discharge across the safety gap.

The current should never be allowed to pass across the safety spark gap for any length of time, and if the engine is operated on a second or auxiliary ignition system, the magneto must be grounded in order to prevent the production of high tension current. The snapping sound by which the passage of the current across the safety gap may be noted should always lead to an immediate search for the cause of the difficulty.

Timing Range

The magneto interrupter housing is arranged so that it may be rotated through an angle of about 20° to 35° with respect to the armature shaft. The movement of this housing in one direction or the other causes the interrupter lever to strike the steel cams earlier or later in the revolution of the arma-

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'American Bosch Magneto Corporation'.

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Service Instructions American Bosch Corporation (Springfield, Mass.),194? **Instructions for Bosch High Tension Magneto Type FB.** American Bosch Magneto Corporation,1925 **AT-4 and AT-6 Magneto Instructions and Parts List** American Bosch Magneto Corporation,1927 **Technical Manual** United States. War Department,1947 Standard Auto-electrician's Manual ,1923 **Field and Depot Maintenance Manual** ,1971 **Training Manual** United States. War Dept,1924 *Naval Air Service Training Manual* Great Britain. Admiralty,1915 Service Manual of Starting Lighting Ignition Samuel Payne Reed,1919 *Automotive Manual for Laboratory and Repair Shop* Albert Leroy Taylor,A. Harold Blake,1923 Ignition, Valve Timing and Automobile Electric Systems (self-starting and Lighting) a Comprehensive Manual of Self-instruction on the Operation, Adjustment and Repair of Magnetos, Battery Ignition Systems, and Self-starting Mechanisms John B. Rathbun,1920 *AUTOMOBILE CATECHISM AND REPAIR MANUAL* CALVIN F. SWINGLE, M.E.,1914

AUTOMOBILE CATECHISM AND REPAIR MANUAL: A Series of Questions and Answers Covering the Construction, Care, and Operation of Automobiles ALSO Complete Instructions for Locating Troubles and Making Adjustments and Repairs of All Kinds PREPARED EXPRESSLY FOR Owners, Chauffeurs, Garage Men and Automobile Machinists CALVIN F. SWINGLE, M.E. AND H.A. TARANTOUS,1916 Magneto Instructions for B-4 -- B-6 for Automobiles of 4 and 6 Cylinders American Bosch Magneto Corporation,1920 Magneto Instructions DU-4, DU-6, DU-4/2 for Gasoline Engines of 2, 4 and 6 Cylinders American Bosch Magneto Corporation,1920 **Magneto Instructions FX Types (rotary) for One and Two Cylinder Engines** American Bosch Magneto Corporation,1923 *Magneto Instructions ZR-4, ZR-6 for Automobile Type Engines of 4 and 6 Cylinders* American Bosch Magneto Corporation,1920 **Aircraft Manual for Inspection, Maintenance and Repair** Jack Lincke,1935 *The Motor Boat & Marine Motor Manual* ,1911 **A Manual of Petrol Motors and Motor Cars** F. Strickland,1907

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