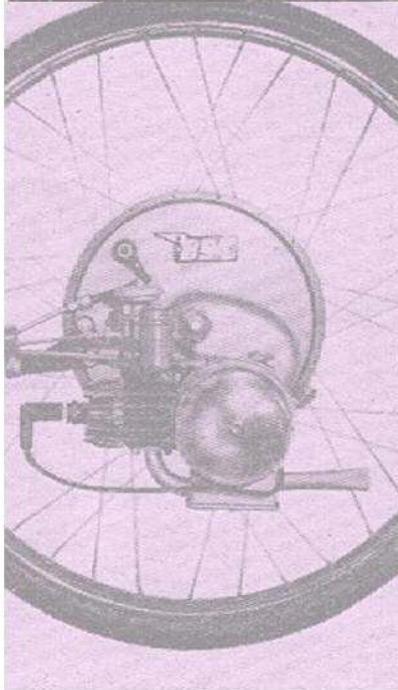


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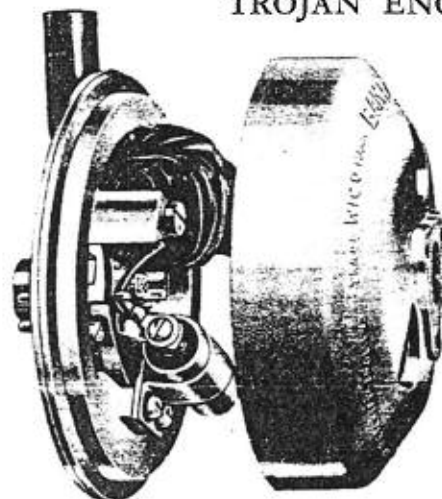
BRIEF DESCRIPTION AND SPARE PARTS LIST FOR



"BANTAMAG" MAGNETO SPECIFICATION FW-1107Z

STANDARD EQUIPMENT ON

TROJAN ENGINE FITTED TO MINI-MOTOR



Details:

CYLINDER:	Single
ROTATION:	Anti-clockwise
FLYWHEEL:	Without cooling fins
DIAMETER OF FLYWHEEL:	4 $\frac{1}{8}$ " dia.
WEIGHT OF FLYWHEEL:	3 $\frac{1}{2}$ lbs.
BREAKER POINT SETTING:	.018"
H.T. LEAD:	17 $\frac{1}{2}$ "

DESCRIPTION

The "Bantamag" Specification FW-1107Z, designed for engines up to 100 c.c., is a 4 $\frac{1}{8}$ " dia. flywheel magneto featuring high spark output for easy starting, permanent retention of magnetism and the elimination of the necessity of frequent adjustment. It is the ultimate in simplicity, consisting of a rotor and a stator plate assembly.

The flywheel is a magnetic unit which concentrates a powerful magnetic charge within a small space and volume. By virtue

of its ability to retain indefinitely this high magnetic concentration, this unit is able to provide the magneto with its extraordinary high spark output throughout its entire life.

The stator plate assembly contains the coil and core, condenser, and breaker mechanism, all easily accessible for servicing.

This magneto fulfils the needs of the small engine, providing unprecedented slow or high speed performance and requiring little or no attention over long periods of service.

SERVICE INSTRUCTIONS

Checking Magneto for Spark

It is recommended that if there is an indication of the magneto causing trouble, a test be made before attempting to repair.

If the engine refuses to start, the magneto can be checked by holding the H.T. lead $\frac{1}{2}$ " away from a point on the frame of the engine. When the engine is cranked over in its usual way, a properly performing magneto should jump this gap.

If the engine misses at high speed, first check the spark plug. With the plug in good condition and properly adjusted the magneto should fire a spark without missing while the H.T. lead is held $\frac{1}{8}$ " away from the spark plug terminal.

The only adjustable part on the "Bantamag" is the breaker plate which provides adjustment for the breaker points.

Removal of Flywheel from Engine

Remove the hexagon nut which holds the flywheel in position. If there is no flywheel puller available the flywheel can be withdrawn by grasping the flywheel firmly and while attempting to pull it off, tap the end of the crankshaft with a mallet. Be careful during this operation not to bend or damage the shaft.

Adjustment of Breaker Points

The only adjustable part on the magneto is the breaker plate which provides adjustment for the breaker points.

To adjust these points turn the engine over until the contacts are visible through the hole in the flywheel marked "set points .018" here."

If points need adjusting loosen the screw which locks the breaker plate and move the latter, to give the .018" point setting, by turning the eccentric-headed screw. Then lock the plate securely again by tightening the breaker plate screw. The breaker plate moves about the axis of the breaker arm stud and thus assures proper alignment of contact surface.

The breaker point setting should only be adjusted in the manner described and at no time should the breaker arm be filed to provide adjustment.

The moving contact is integral with the breaker arm. If the contact points need replacement it is recommended that both the fixed and movable points be replaced at the same time.

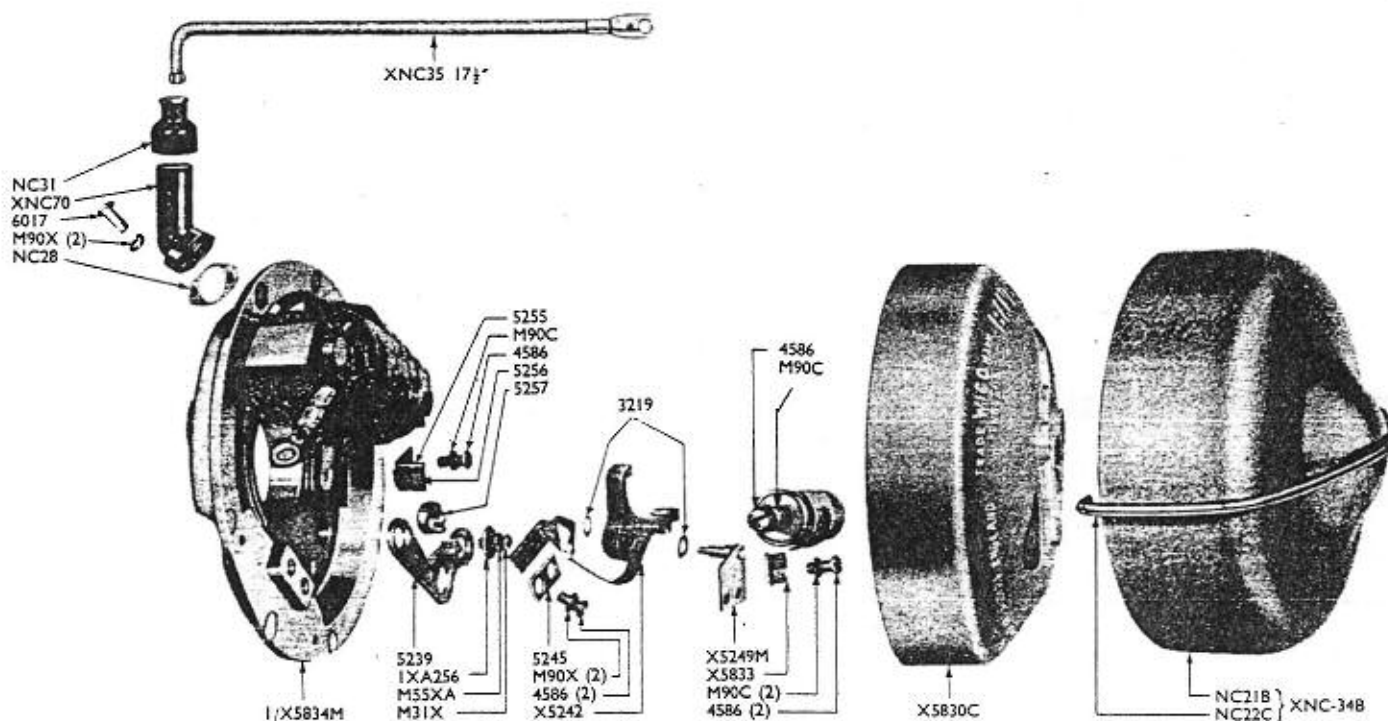
The breaker arm bearing is packed with cam lubricant at the time of assembly and should not need any other lubrication. A small amount of this lubricant is also packed on the breaker arm shoe and wipes off on the cam surface, providing permanent lubrication between these rubbing surfaces.

Removal of Condenser

To remove the condenser, disconnect the breaker connection strip and the primary connection from the live end of the condenser and remove the two screws holding the condenser clamp

WICO TYPE "BANTAMAG" MAGNETO

Specification FW-1107Z



SPARE PARTS LIST

Part No.	Quan.	Description
NC-21B	1	Flywheel Cover
NC-22C	1	Flywheel Cover Clip
XNC70	1	H.T. Terminal Block
NC-28	1	H.T. Terminal Gasket
NC-29	1	H.T. Terminal (Contact)
M-31X	1	Fixed Contact Screw
NC31	1	H.T. Lead Rubber Protector
XNC-34B	1	Flywheel Cover and Clip
XNC-35	1	H.T. Lead Wire Group 17 1/2"
M55XA	1	Fixed Contact Screw Lock Washer
M90C	2	H.T. Terminal Fixing Screw Lock Washer
M90C	1	Cam Pad Bracket Fixing Screw Lock Washer
M90C	2	Condenser Fixing Screw Lock Washer
M90C	1	Condenser Screw Lock Washer
M90X	2	Breaker Arm Spring Clamp Lock Washer
IXA-256	1	Fixed Contact Screw Washer

Part No.	Quan.	Description
3219	1	Breaker Arm Spacing Washer
4586	1	Condenser Screw
4586	2	Condenser Fixing Screw
4586	1	Cam Pad Bracket Fixing Screw
5239	1	Fixed Contact
X5242	1	Breaker Arm
5245	1	Breaker-Arm Spring Clamp Plate
X5249M	1	Breaker Arm Pivot and Fixing Plate Group
5255	1	Cam Pad Bracket
5256	1	Cam Pad
5257	1	Eccentric Screw
X5830C	1	Flywheel
5833	1	Condenser
X5834M	1	Stator Plate Assembly
1/X5834M	1	Coil, Core and Stator Plate Unit
6017	2	H.T. Fixing Screw