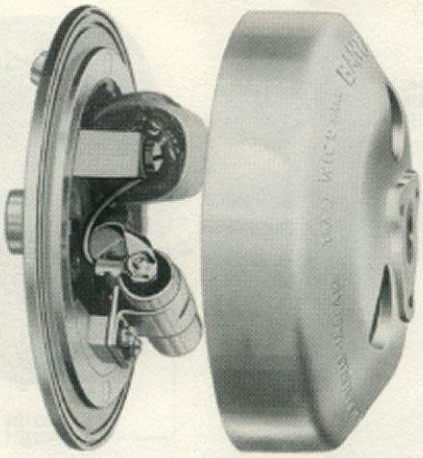
BRIEF DESCRIPTION AND SPARE PARTS LIST FOR

WICO

"BANTAMAG" MAGNETO SPECIFICATIONS FW-1091Z and FW-1131Z

STANDARD EQUIPMENT ON

N.V. MOTORENFABRIEK PLUVIER "BERINI" ENGINE



Details :

CYLINDER :	Single
ROTATION :	Clockwise
FLYWHEEL :	Without cooling fins
DIAMETER OF FLYWHEEL :	4 1/16" dia.
WEIGHT OF FLYWHEEL :	32 ozs.
BREAKER POINT SETTING :	.018"
H.T. LEAD :	18"

DESCRIPTION

The "Bantamag" Specifications FW-1091Z and FW-1131Z, designed for engines up to 100 c.c. is a 4 1/16" 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 1/4" 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 1/16" 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 that locks the fixed contact breaker plate just sufficiently to allow the breaker plate to be raised or lowered by placing a screwdriver between the raised edge of the stator and breaker plate and slightly turning.

When the correct contact gap has been obtained lock the fixed contact plate securely.

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.

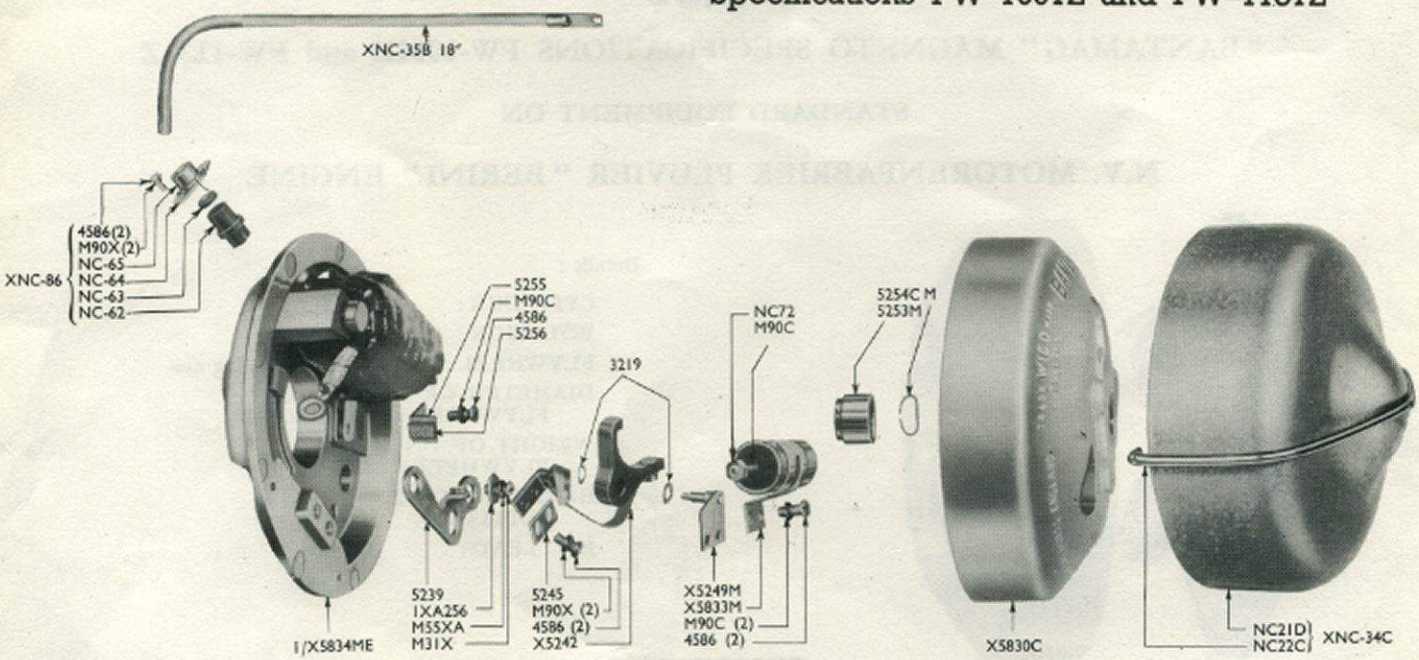
The breaker arm bearing is packed with cam lubricant at the time of assembly and should not need any other lubrication. A small amount of this lubricant is also packed on the breaker arm shoe and wipes off on the cam surface, providing permanent lubrication between these rubbing surfaces.

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

Specifications FW-1091Z and FW-1131Z



SPARE PARTS LIST

Part No.	Quan.	Description
NC-21D	1	Flywheel Cover
NC-22C	1	Flywheel Cover Clip
M-31X	1	Fixed Contact Screw
†XNC-34C	1	Flywheel Cover and Clip
*XNC-35B	1	H.T. Lead Wire Group 18"
M55XA	1	Fixed Contact Screw Lock Washer
M58X	2	Coil Core Fixing Screws (Lock Washers)
*NC-62	1	H.T. Terminal Insulator
*NC-63	1	H.T. Terminal Rubber Grommet
*NC-64	1	H.T. Terminal Fixing Plate
*NC-65	1	H.T. Terminal Cap
*NC-72	1	Condenser Nut
†*XNC-86	1	H.T. Terminal Block Unit
*M90X	2	H.T. Terminal Fixing Plate Screw Lock Washer
M90C	1	Cam Pad Bracket Fixing Screw Lock Washer
M90C	2	Condenser Fixing Screw Lock Washer
M90C	1	Condenser Screw Stud Lock Washer
M90X	2	Breaker Arm Spring Clamp Lock Washer
IXA-256	1	Fixed Contact Screw Washer
3219	1	Breaker Arm Spacing Washer
**4586	1	Condenser Screw
*4586	2	H.T. Terminal Plate Fixing Screw
4586	2	Condenser Fixing Screw

Part No.	Quan.	Description
4586	1	Cam Pad Bracket Fixing Screw
5239	1	Fixed Contact
X5242	1	Breaker Arm
5245	1	Breaker Arm Spring Clamp Plate
5248	2	Coil Core Fixing Screw
X5249M	1	Breaker Arm Pivot and Fixing Plate Group
5253M	1	Breaker Cam
5254CM	1	Cam Retainer Clip
5255	1	Cam Pad Bracket
5256	1	Cam Pad
5257	1	Eccentric Screw
*5829MA	1	Stator Plate
X5830C	1	Flywheel
*X5831A	1	Coil and Core Group
**X5833	1	Condenser Group
*X5833M	1	Condenser Group
*X5834MA	1	Stator Plate Unit
**1/X5834A	1	Coil, Core and Stator Plate Unit
*1/X5834ME	1	Coil, Core and Stator Plate Unit

*Used on Specification FW-1131Z only.

**Used on Specification FW-1091Z only.

†Includes all parts bracketed against this number on illustration above.

To ensure receiving the correct spares, please quote Magneto Specification Number, together with Part Number required.

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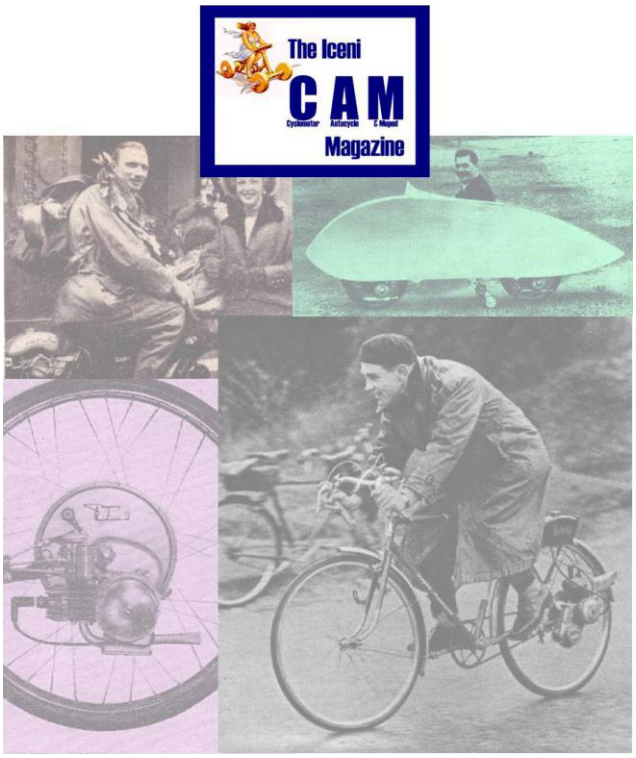

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