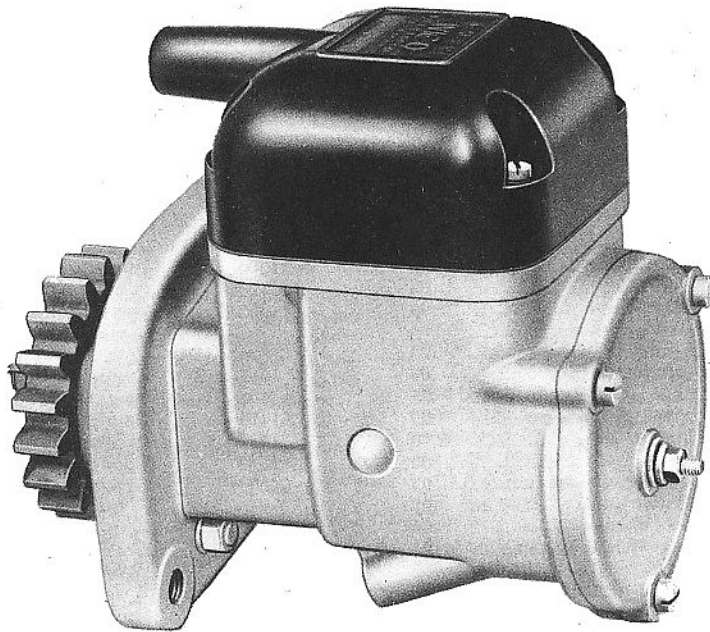


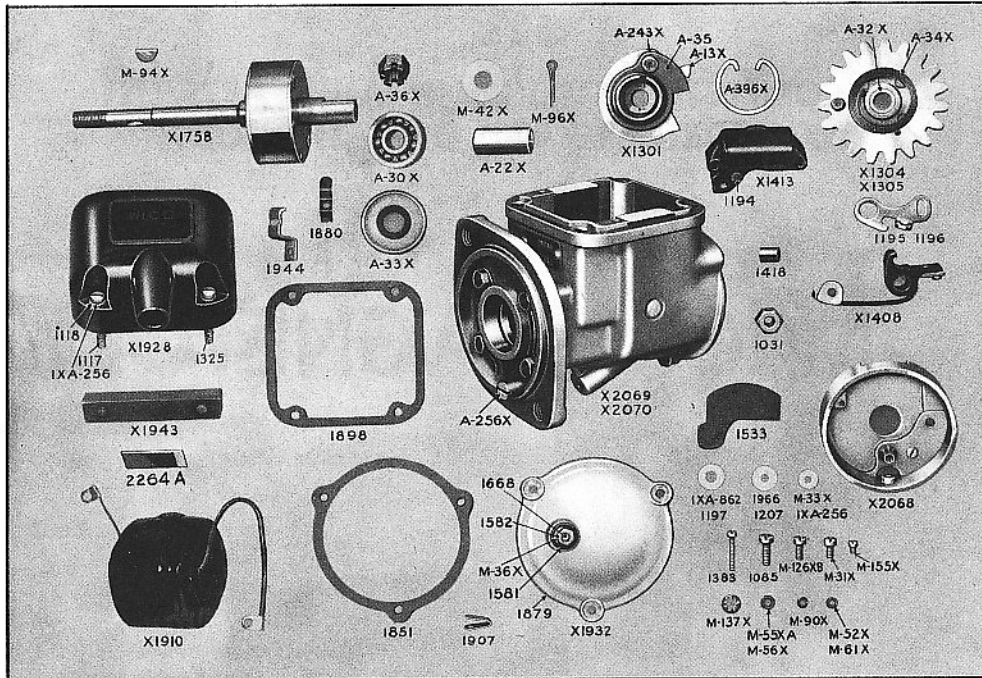
COMPLETE INSTRUCTIONS AND PARTS LIST
FOR CARE AND OPERATION OF

TYPE AH WICO MAGNETOS



WICO-BUILT
IGNITION

Wico Electric Company
WEST SPRINGFIELD, MASSACHUSETTS



Repair Parts for Minor Repairs to Series AH Magneto

A-13X	Trip Arm	.....\$ .40	X1304	Impulse Gear Group (for AH-192A)	..... net \$1.95
M-31X	Fixed Contact Screw	..... .05	X1305	Impulse Gear Group (for AH-212)	..... net 2.40
M-31X	Breaker Arm Spring Screw	..... .05	1325 (4)	Cover Screw Snap Ring	..... .05
M-31X	Breaker Arm Clamp Screw	..... .05	1383 (2)	Condenser Screw	..... .05
A-32X	Impulse Gear Bushing	..... .25	X1408	Breaker Arm Group	..... 1.30
M-33X	Ground Stud Washer (Inside)	..... .05	X1413	Condenser Group	..... 1.25
A-34X	Drive Spring	..... .65	1418	Breaker Arm Spacer	..... .05
M-34X (2)	Ground Stud Insulating Bushing	..... .05	1533	Condenser Case Gasket	..... .05
A-35	Driven Flange Group	..... 2.30	1581	Ground Stud Insulating Washer	..... .05
A-36X	Impulse Gear Nut	..... .05	1582	Ground Stud Nut	..... .05
M-36X	Ground Stud Washer (outside)	..... .05	1668	Ground Stud	..... .05
M-42X	Impulse Gear Washer	..... .05	1814	Ground Lead Terminal	..... .05
M-52X	Coil Contact Screw Washer	..... .05	1851	Breaker Box Cover Gasket	..... .05
M-55XA	Fixed Contact Screw Lock Washer	..... .05	1879	Breaker Box Cover	..... .50
M-55XA	Breaker Arm Spring Screw Lock Washer	..... .05	1880	Coil Contact	..... .05
M-55XA	Breaker Arm Clamp Screw Lock Washer	..... .05	1898	Cover Gasket	..... .05
M-55XA (2)	Coil Core Clamp Screw Lock Washer	..... .05	1907	Grounding Spring	..... .05
M-55XA	Ground Stud Nut Lock Washer	..... .05	X1910	Coil Unit (includes 1211, 1814)	..... 3.40
M-56X	Use M-55XA	..... .05	X1928	Cover Unit (includes IXA-256, 1117, 1118, 1325, 1898, X2067)	..... 1.25
M-61X	Impulse Stop Lock Washer	..... .05	X1930	Breaker Assembly (includes M-31X (3), M-55XA (3), M-90X (2), IXA-256, 1196, 1197, 1207, 1383 (2), X1408, X1413, 1418, 1533, X2068, 2252)	..... 3.75
M-90X (2)	Condenser Screw Lock Washer	..... .05	X1932	Breaker Box Cover Group (includes M-33X, M-34X, M-36X, M-55XA, IXA-862, 1581, 1582, 1668, 1879, 1907)	..... .60
M-94X	Drive Shaft Key	..... .05	X1943	Coil Core Group	..... .55
M-96X	Impulse Gear Nut Cotter Pin	..... .05	1944 (2)	Coil Core Clamp	..... .05
M-126XB (2)	Coil Core Clamp Screw	..... .05	1966	Impulse Stop Gasket	..... .05
M-126XB	Breaker Box Screw	..... .05	X2067	Cover Group (includes M-52X, M-155X, 1880)	..... 1.00
M-137X (3)	Breaker Box Cover Screw Lock Washer	..... .05	X2068	Breaker Box Group (includes pivot and adjusting eccentric only)	..... 1.20
M-155X	Coil Contact Screw	..... .05	2252	Breaker Point Gauge	..... .05
A-243X	Trip Arm Snap Ring	..... .05	2264A (2)	Coil Wedge	..... .05
A-256X	Impulse Stop	..... .25	X3343 (2)	Breaker Point Set	..... 1.85
IXA-256 (4)	Cover Screw Washer (steel)	..... .05			
IXA-256	Fixed Contact Screw Washer	..... .05			
IXA-862	Ground Stud Insulating Washer (inside)	..... .05			
1031	Impulse Stop Nut	..... .05			
1085 (3)	Breaker Box Cover Screw	..... .05			
1117 (4)	Cover Screw	..... .05			
1118 (4)	Cover Screw Washer (black leather)	..... .05			
1194	Cam Oil Pad	..... .05			
1196	Fixed Contact Plate (includes point)	..... .55			
1197	Breaker Arm Spacing Washer	..... .05			
1207	Breaker Arm Clamp Washer	..... .05			
1211	Breaker Lead Terminal	..... .05			
X1301	Driven Flange Assembly (includes A-13X, A-35, A-243X)	..... 2.85			

These prices supersede all previous prices and are subject to change without notice

WICO ELECTRIC COMPANY, WEST SPRINGFIELD, MASSACHUSETTS, U. S. A.

The following parts are for major repairs only and are not for field replacement. Only an experienced magneto man, preferably a Wico Sales and Service Station, should attempt to install them.

Repair Parts for Major Repairs to Series "AH" Magneto

A-22X	Ball Bearing Spacer	\$.20	X2069	Main Housing with End Plate Unit (includes both ball bearings and spacer—for AH-192A)	\$11.05
A-30X (2)	Ball Bearing	2.00			
A-33X	Oil Seal .....	.40	X2070	Main Housing with End Plate Unit (includes both ball bearings and spacer—for AH-212)	11.30
A-396X (2)	Bearing Snap Ring .....	.20			
X1758	Rotor Group	8.95			

Instructions for Minor Repairs to Series "AH" Wico Magnetos

The Series AH WICO magneto is designed to give long life, is carefully tested at the factory and requires a minimum amount of care.

An occasional inspection of the breaker points and the maintaining of a gap of .015 between these points is the only mechanical care necessary.

Lubrication of the magneto is automatically taken care of with the exception that a small supply of magneto grease should be kept on the breaker arm back of the shoe or rubbing block.

Only minor repairs should be attempted and instructions for these follow. Such service includes the removal of breaker points, condenser, coil, terminal outlet (which is part of the cover) and the impulse. All other repairs are considered of a major nature and should only be attempted by an authorized "WICO" Service station or by the factory. In either case trained men, thoroughly familiar with the series AH are available and carry the equipment essential to the efficient servicing of WICO magnetos.

MINOR REPAIRS:

BREAKER POINTS:

To reach the breaker it is only necessary to remove the breaker housing cover, held in place by three screws.

TO ADJUST THE POINTS:

The stationary point is mounted on a steel plate, the movement of which is controlled by a slotted-head eccentric and a slotted-head locking screw. The locking screw has the larger head. Loosen this screw, then turn the slotted-head eccentric until the correct breaker opening of .015" has been obtained. Tighten the locking screw. Test the opening again to be sure it has not changed.

TO REPLACE POINTS:

It is recommended that if one point needs replacing, both points be installed to insure best results.

Two screws hold the movable breaker point in place, the pivot screw and the screw which fastens the coil connection wire and the breaker arm spring to the condenser shell. The removal of both screws will permit the withdrawal of the movable group from the breaker box. It is then only necessary to take out the locking screw of the stationary point to allow removal of the fixed point. Care should be taken in putting the new arm on so that both of the washers and the steel bushing are in place.

In replacing the screw for the spring clip it will be found helpful to wedge this clip into place with a screw driver while the screw is being started.

CONDENSER RENEWAL:

The condenser is incased in a black bakelite housing and is mounted in the breaker box, directly over the breaker points. To remove the condenser it is only necessary to take out the screw holding the coil connection wire and the two screws located at either end of the condenser. The installation of the new condenser is then easily made.

COIL RENEWAL:

Remove the screw holding the coil connection wire on the breaker box. Unscrew the four screws holding the bakelite cover of the magneto down and take this cover off. The coil will then be exposed where it is held down by two clamps over the coil core. Remove these two screws and the clamps. Now take hold of the coil and coil core, exerting just enough force to lift it if there were no magnetism gripping it to the magneto. Turn over the magneto shaft slowly in a counterclockwise direction when looking at the drive gear, or if the magneto is on the engine, turn the engine over slowly in the direction opposite to its ordinary rotation, until the magnetism no longer grips the coil core and the coil and core come free from the magneto. Do not turn the magneto shaft again while the coil core is off. To do this will necessitate recharging the magneto in order to prevent its full intensity of spark from being impaired.

The coil is held on the coil core by a copper wedge. Simply push the core through the coil and the wedge will fall out. One surface of the coil core has been ground to make a firm contact with the magneto housing. Press the core and coil wedge into the new coil so that the WICO trademark will be on top when the coil and core are installed on the magneto and the wedge is on the lower side.

Thread the insulated coil connection wire through the hole in the main housing down into the breaker box. Set the coil and coil core onto the housing so that the button is towards the gear end of the magneto. Replace the coil core clamps, putting the coil ground wire terminal at the side of the coil under the head of the coil core clamp screw. Before tightening the coil core clamp screws, center the coil core on the housing so that the cover will fit properly. Replace the cover, with the lead wire terminal towards the gear end of the magneto. Replace the coil connection wire screw in the breaker box. It will be found helpful in replacing the screw to wedge the breaker arm spring clip into position with a screw driver while the screw is started. Replace the breaker box cover with its gasket.

TERMINAL:

The high tension terminal of the Series AH is a part of the bakelite cover. It is secured to the magneto by four screws which have snap rings to prevent their coming out of the cover.

IMPULSE COUPLING:

To remove the impulse coupling from the magneto, remove the cotter pin and nut on end of shaft. In order to hold the shaft while the nut is being loosened, insert a screw driver between the impulse stop and end of flyweight or driven flange. Do not try to hold the gear.

After the nut is removed, the gear and its bushing can be taken off the shaft, making sure that the impulse spring contained in the gear is removed with it. It will be necessary to work the inner eye out of its groove in the driven flange with a screw driver as the gear is removed, in order that the spring will not unwind itself. The impulse spring can be removed from the gear by inserting a blunt pin through the hole in the gear that anchors the outer end of the spring, forcing the spring out of the hole.

The driven flange is keyed to the drive shaft of magneto; and after the gear is removed the flange can be pried off by placing a screw driver behind it on each side. Do not damage the pilot boss that guides the magneto into the engine housing.

Replacement impulse springs are enclosed in a casing to facilitate their installation. To insert a new spring, lay the wound spring, which is in the casing, over the recess in the gear, so that the outer eye of the spring is over the notch in the gear provided for it. Use a piece of brass or hard wood to drive the eye into its notch in the gear and, at the same time work the rest of the spring into the gear by inserting the blunt pin through holes in the casing provided for this purpose. The spring will then drop into its recess. At the same time, the casing which holds the wound spring will come off.

To replace the gear on the magneto, pull inner eye of the spring out just enough so that it can be started into the notch in the driven flange. Turn the flange until the flyweight engages the impulse stop, then turn the gear clockwise until the impulse trip pin in gear passes by the engaging surface on the flange. Then press the gear into place and insert the bushing.

Caution! Never remove the armature when making these repairs, as the magnets will become discharged and will not function properly.

Other repairs, such as replacing of drive shaft assembly (includes magnets, cam and breaker point cam), ball bearings, main housing, are considered major repairs and should only be attempted by those qualified as authorized WICO stations or by the factory.

FACTORY

Wico Electric Company

West Springfield, Mass.

MILWAUKEE, WISCONSIN

R. J. Cory, Sales and Service Engineer
2169 N. Sherman Blvd.

TULSA, OKLAHOMA

Harry Lolley, Southwest District Manager
310 Thompson Bldg.

LOS ANGELES, CALIFORNIA

V. T. Chevallier, Western District Manager
1116 S. Hope St.
Los Angeles, California

NEW YORK

Wico Electric Company
38 Pearl St.
New York, N. Y.

**DISTRIBUTORS
SALES AND SERVICE**

NOTE: This list includes only central stations. A complete directory of all authorized Wico Service Stations will be supplied on request.

Alabama	Birmingham	Birmingham Electric Battery Co., 25rd St. & Ave. B.	Texas	Amarillo	E. S. Cowie Electric, 700 Van Buren St.
Arizona	Phoenix	Jones Battery & Electric Company, 318 W. Jefferson St.	Dallas	Dallas	Beard & Stone Electric Co., 2101 Bryan at Olive.
California	Los Angeles	Electric Equipment Company, 1611 So. Hope St.	El Paso	El Paso	Randel Battery & Magneto Co., 425 Texas St.
	San Francisco	Auto Electric & Supply Co., 543 Van Ness Ave.	Fort Worth	Fort Worth	Generator Service Company, 1115 Commerce St.
Colorado	Denver	Spitzer Electric Company, 43 W. 9th Ave.	Houston	Houston	Beard & Stone Electric Co., Inc., San Jacinto and Polk Ave.
Florida	Jacksonville	Spencer Elec., Inc., 40 W. Beaver St.	Kilgore	Kilgore	Magneto-Sales & Service Co.
	Miami	Electrical Equipment Co., 42 N. W. 4th St.	San Antonio	San Antonio	S. X. Callahan, 419-425 N. Flores St.
	Tampa	Spencer Auto Electric Co., 607 Cass St.	Salt Lake City	Salt Lake City	Frank Edward's Company Motor Equip. Div., 601 S. State St.
Georgia	Atlanta	Auto Electric & Magneto Co., 477 Spring St., N. W.	Seattle	Seattle	Richmond Battery & Ignition Co., 1319 West Broad St.
Idaho	Boise	Oakley Automotive, 1105 Idaho St.	Charleston	Charleston	Pacific Magneto Service, Inc., 2719 First Ave. So.
Illinois	Chicago	Illinois Auto Electric Co., 2101 Indiana Ave.	Wisconsin	Milwaukee	MacFadden Ignition, 108 Broad St.
Indiana	Indianapolis	Gulling Auto Electric Co., 450 N. Capitol Ave.			Wisconsin Magneto Co., 918 Broadway.
Kansas	Wichita	E. S. Cowie Electric Co., 250 S. Topeka Ave.	Australia	Sydney	
Kentucky	Lexington	Kentucky Ignition Co., Rose St. at Vine			AUSTRALIA
	Louisville	Kentucky Ignition, 4th St. at York.			Carr & Elliott, Cr. Kent & Market Sts.
Louisiana	New Orleans	John M. Walton, 1009 St. Charles St.	Alberta	Calgary	
	Shreveport	Magneto Ignition Service Co., 804 Louisiana Ave.	Edmonton	Edmonton	CANADA
Maryland	Baltimore	Parks & Hull Automotive Corp., 1035 Cathedral St.	British Columbia	Vancouver	R. Hutton, 131 Eleventh Ave., West.
Massachusetts	Boston	A. & J. Auto Ignition Company, 55 Brighton Ave.	Manitoba	Winnipeg	Smith Battery & Auto Elec.
Michigan	Detroit	Auto Elec. & Service Corp., 90 Selden Ave.	Ontario	Toronto	Jeffree & Jeffree, Ltd., 775 Homer St.
Minnesota	Minneapolis	Reinhard Bros. Co., Inc.	Quebec	Montreal	Beattie Auto Electric Co., Ltd., 176 Fort St.
Missouri	Kansas City	E. S. Cowie Electric Co., 1819 Wyandotte St.	Saskatchewan	Regina	A. Cross & Co., 45 Elm St.
	St. Louis	Medart Auto Elec. Co., Inc., 3134 Washington Blvd.			International Electric Co., Ltd., 1037 Bleury St.
Montana	Billings	Pasley & Spitzer, 2011 33rd St.	Channel Islands	Guernsey	Elec. Motor Service.
Nebraska	Omaha	Carl A. Anderson, Inc., 16th and Jones St.			CHANNEL ISLANDS
New Jersey	Newark	Henry's Company, 376 High St.	Cuba	Habana	Auto and Electrical Supply Co., Ltd.
New Mexico	Albuquerque	Spitzer Electric Co.			CUBA
New York	Buffalo	Peter Hettrich, 1032 Ellicott St.	Hawaii	Honolulu	Electric Equipment Co. of Cuba, Avenida de Italia 29.
	Long Island City	Steiner Bros., Inc., North Blvd. at 34th St.			HAWAIIAN ISLANDS
	Troy	Ehrlich Electric Service, 200 Fourth St.	Mexico	Mexico City	Honolulu, T. H. Automotive Service Co., So. and Kawaiahoo Streets.
North Carolina	Charlotte	Carolina Rim & Wheel Co., 306 N. Graham St.	New Zealand	Wellington	
Ohio	Toledo	Electric Power Maintenance Co., 26-50 17th St.			MEXICO
Oklahoma	Oklahoma City	American Electric Ignition Co., 725 N. Broadway	Philippine Is.	Manila	Ananac Machinery Co., 5H, Bucareli No. 12.
	Tulsa	Magneto Ignition, 701 W. Fifth Ave.			NEW ZEALAND
Oregon	Portland	Magneto Equipment Co., 1111 So. E. Grand Ave.	Porto Rico	San Juan	H. E. W. Silver Magneto & Ignition Co., 45/7 Lower Cuba St.
Pennsylvania	Philadelphia	Tri-State Electric Co., 3330 N. Broad St.			PHILIPPINE ISLANDS
	Pittsburgh	Automotive Ignition Co., 4917 Baum Blvd.	Roumania	Bucaresti	Caro Electrical Service, 110 Padre Faura St.
Rhode Island	Providence	A & J Auto Ignition, 43 Broadway.			PORTO RICO
South Carolina	Columbia	Magneto & Electric Service.	South Africa	Durban	Ricardo Davila, P. O. Box 475.
	Greenville	Battery & Electric Co., 300-314 Buncombe St.	Orange	Bloemfontein	ROUMANIA
Tennessee	Knoxville	R. T. Clapp Co., 401 No. Broadway	Free State	Cape Town	Progressul Mecanic.
	Memphis	Automotive Electric Service Company, 918 Linden St.		Johannesburg	SOUTH AFRICA
			Argentina	Buenos Aires	Messrs. J. M. Moir
					Electric Service Station Corp., Ltd., 34 Henry St.
					Motor Units Pty., Ltd., Cor. Bree and Rieckeek Streets.
					Thos. Barlow & Sons, Ltd., (S. A.)
					SOUTH AMERICA
					Armido Bonelli, Rauch 1849, Entre Calleo y Corrientes.