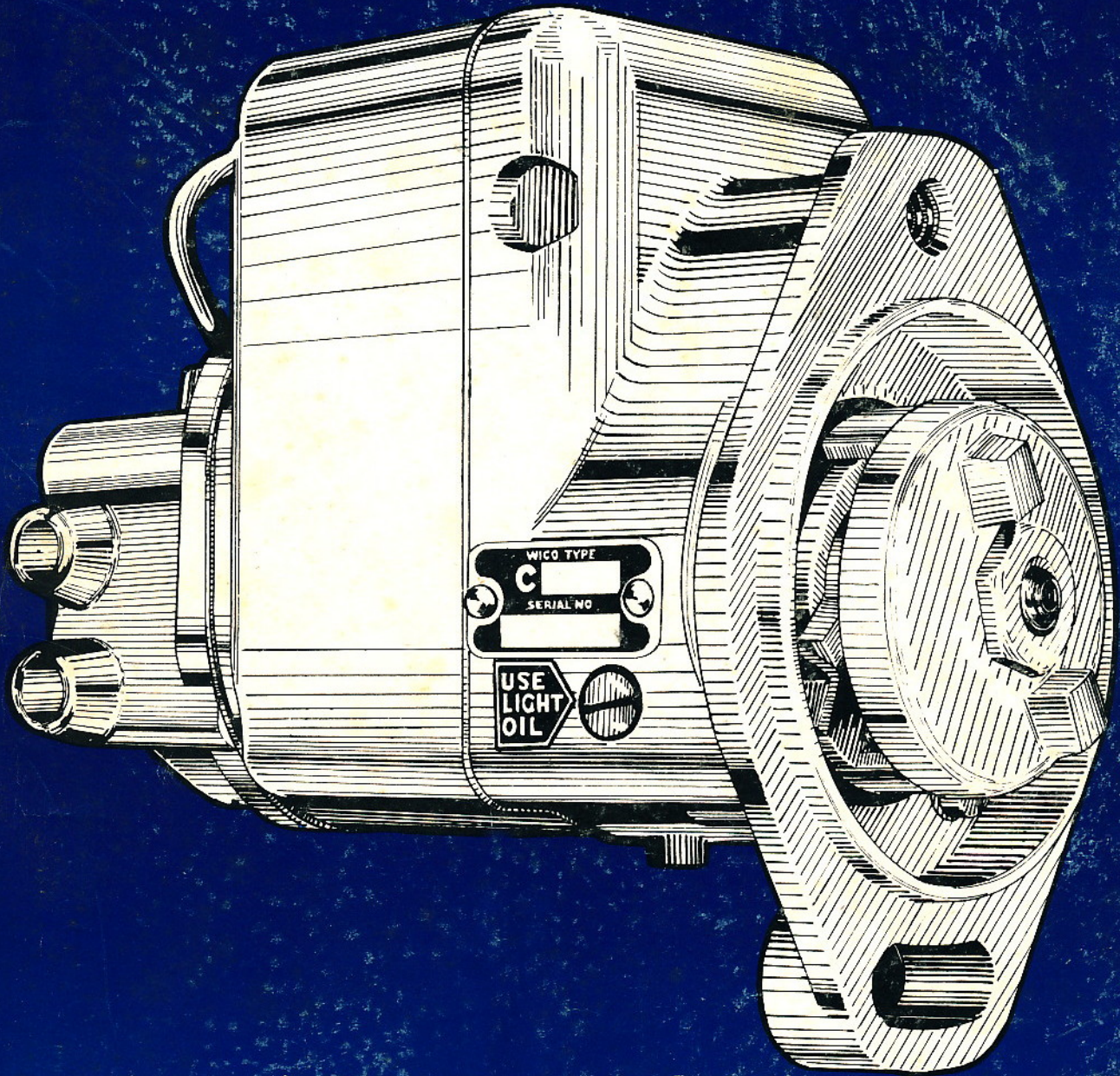


BRIEF INSTRUCTIONS
SERVICE PARTS LIST



TYPE 'C'
WICO MAGNETOS

BRIEF INSTRUCTIONS

INSTALLATION

When installing the Series 'C' WICO Magneto on a base mounted application, care should be taken to see that there is proper alignment between the drive members and lugs of the magneto drive cup. Before tightening the screws firmly, this alignment should be checked by turning over the motor, at the same time ascertaining that the float member has sufficient play endwise during each turn of the cycle. Care should also be taken to be sure that the screws are short enough so that they are clamping the magneto down and not just bottoming in the tapped holes of the magneto.

TIMING TO IMPULSE SPARK

When the impulse coupling is to be used in timing the magneto to the engine, and in the absence of other information from the engine manufacturer, first remove the distributor cap, then turn the magneto shaft over in the proper direction of rotation until the impulse coupling has just tripped. Note which tower of the distributor cap the distributor arm is nearest and the cylinder to which this tower is connected by the spark plug cable; turn the engine over to top dead center on this cylinder, on the compression stroke, and couple the magneto to the engine.

TIMING TO ADVANCE SPARK

Where the engine flywheel is marked with the position of advance or running spark, usually designated by IGN, a different procedure is followed: Turn the shaft in a direction opposite to its ordinary rotation until the distributor arm is at the tower of the distributor cap to which is connected the spark plug cable leading to No. 1 cylinder. By means of a thin piece of paper between the points, the exact instant of breaker point opening can be determined. At this point, the magneto is in a position where a spark will be delivered to the No. 1 cylinder. Turn the engine over until the advance spark mark on the flywheel is correctly located on the compression stroke of No. 1 cylinder and couple the magneto to the engine.

LUBRICATION

The magneto is provided with two oilers, one on each side of the main housing, so that whichever way the magneto faces the engine, one oiler will always be convenient. Once every two hundred (200) hours of operation, these oilers should be filled to overflowing with WICO or S.A.E. oil. After every 1000 hours of service it is necessary to re-lubricate the cam oil pad. This is done by removing the pad and squeezing and working into it some stringy grease. A summer grade of

automobile transmission grease will very closely resemble that used at the factory. Do not use ordinary grease.

REMOVAL OF DISTRIBUTOR CAP, GEAR HOUSING, AND DISTRIBUTOR ARM

(ON MODELS WITH GEAR HOUSING)

On models with Gear Housing, the distributor cap is removed by wedging out the distributor clips with a screw driver. The distributor arm may then be pulled off the shaft. When replacing the distributor arm, be sure the key lines up with the flat on the shaft, then push in place. When either arm or cap is replaced, be sure the arm does not hit the insert in the cap. The Gear Housing is removed from the machine by loosening the two screws which hold it in place. When replacing the Gear Housing, make certain the key in the gear shaft of the Gear Housing lines up with the slot in the rotor shaft, that the distributor arm is in the same quadrant as when removed, and that the rotor shaft has not turned. Make certain the distributor cap and Gear Housing Gaskets are in place.

MODELS WITHOUT GEAR HOUSING

Admission to the breaker box is accomplished by removing the distributor cap on R-cylinder machines and by removing the breaker box cover on single-cylinder machines. After the distributor cap or the breaker box cover has been removed, the distributor arm may be pulled off the shaft. When replacing the distributor arm, the precautions mentioned above should be followed.

REMOVAL OF CONDENSER

With the distributor cap removed, the condenser can be easily removed by first taking out the screw holding the breaker arm spring (the breaker arm need not be disturbed). Then remove the two screws holding the condenser and slide the condenser up slightly and pull it out. (See Plate 1).

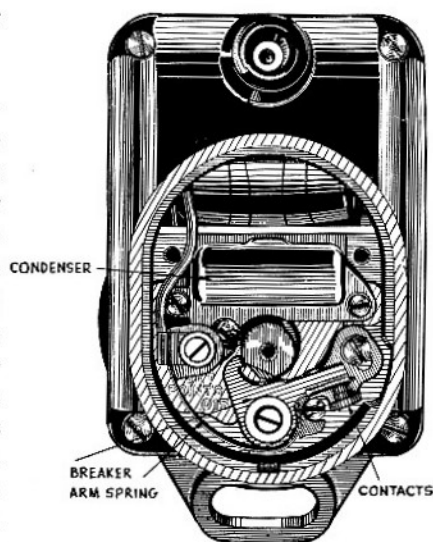


PLATE 1

To replace the condenser, slip it in place under the breaker arm spring being careful to get the condenser

BRIEF INSTRUCTIONS

gasket in place. Tighten down the condenser screws firmly as an electrical contact is made under one of them.

REMOVAL, REPLACEMENT AND ADJUSTMENT OF BREAKER POINTS

The breaker point opening should be adjusted to .015", by means of the screw head eccentric acting on the fixed contact.

It is recommended that if points need replacing, both the fixed contact and the moving point be replaced at the same time.

The breaker arm is integral with the spring and spring terminal and the moving contact point. To remove it, take off the breaker arm clamp screw, lock washer and clamp washer and the breaker arm spring terminal screw and lock washer and pull the assembly off the breaker arm pivot.

In reassembling, be sure that the steel breaker arm spacer is in place. With the breaker arm assembly off, the fixed contact plate may be taken off the breaker arm pivot, after the contact screw has been removed.

REMOVAL OF COVER

The cover, including the breaker assembly, may be removed by first loosening the breaker arm spring screw and pulling out the coil and ground lead terminals. Next, loosen the four fillister head screws one in each corner of the cover, until they are free, then pull the cover off.

REMOVAL OF COIL AND COIL CORE

With the magneto cover off, remove the two fillister head screws holding the coil core clamps in place. Under one is found the ground end of the primary and secondary of the coil. Turn the rotor until the magnetism no longer grips the coil core to the main housing. Pull the coil and coil core free. (See Plate 2).

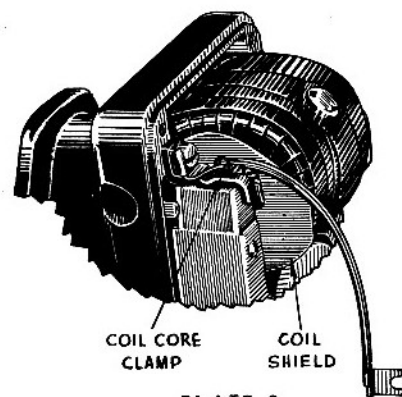
When replacing the coil and coil core on the magneto, be sure the ground surface of the core is against the laminated cores and the primary leads are properly located. When the coil is located, the coil terminal button should be up and toward the breaker plate. The surface must be clean. Be sure to place the ground wire under the core screw lock washer and not under the coil core clamp.

MAJOR REPAIRS SHOULD BE DONE AT THE NEAREST WICO SERVICE STATION OR DISTRIBUTOR

REMOVAL AND REPLACEMENT OF COIL FROM COIL CORES

The coil is held to the coil core by two wedges, therefore, it will be necessary to press with considerable force to remove the coil core. Always be careful not to damage the coil windings.

When replacing a coil on the coil core, slide it on being sure that the finished side of the core is down and the high tension button is up. Then on the finished side of the core, press in the two wedges, one on each side, until they are flush with the primary coil winding. Slide the coil shields on, one on each side, and thread the primary leads through the slot provided for them. (See Plate 2).



IMPULSE COUPLING

The impulse coupling is designed to give a spark of high intensity for starting. It automatically cuts out at about 200 R.P.M. The engine should not be run continuously below this speed, as this would cause an unnatural strain and wear on the impulse parts.

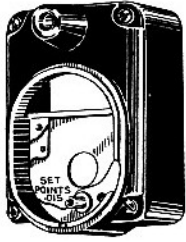
The impulse also provides a retarded spark for starting, automatically advancing it as the engine gets up to speed. Any advance from 5° to 42° beyond impulse spark can be obtained by shifting the position of the impulse stop ring.

FLUSHING OF IMPULSE

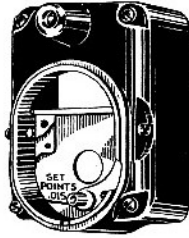
If the impulse becomes clogged with dirt, the necessity for flushing it is evidenced by the trip arms failing to engage or disengage, or by sluggishness in the action of the impulse when it trips. The impulse should be flushed out thoroughly with kerosene, taking care, however, not to allow any of the kerosene to work its way into the magneto housing.

When a dust cover over the impulse is provided on the magneto, it must first be removed by loosening the clips at either side.

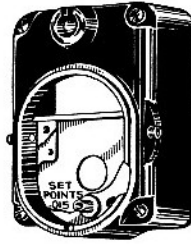
BRIEF INSTRUCTIONS



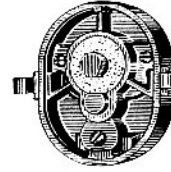
X2798



X3184



X2799



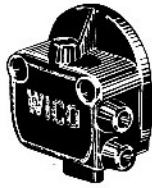
X5291



X3128



X2785



X2938



X2704



X3132



X2705



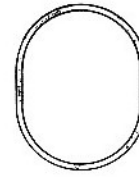
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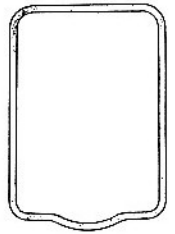
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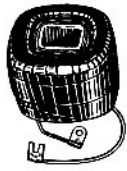
3103



2497



2504



X2766



1760



X2264B



X1413



1194



1533



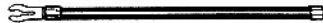
1196



X1408



X2723
X2725



A-355



16-X121C



X1004



16-X121D

X2754

BRIEF INSTRUCTIONS

BRIEF SERVICE PARTS LIST

COMPLETE MAGNETO PRICES ON NEXT PAGE

<i>Part No.</i>	<i>Part Name</i>	<i>List Price</i>	<i>Part No.</i>	<i>Part Name</i>	<i>List Price</i>
M-31X*	Fixed Contact Screw . . .	\$.05	X2706*	Coil Core Group . . . . .	.40
16X-121C	Lead Wire Group 12" . . .	.50	X2723	Secondary Interlead Group (R&G Cyl.)(Push Type Term.)	.20
16X-121D	Use X-2754		X2725	Secondary Interlead Group (2&4 Cyl.)(Push Type Term.)	.20
A-355	Lead Wire 12" . . . . .	.40	X2732	USE X5291	
16-463*	Distributor Cap Nut (for Screw Type Terminal) . .	.15	X2754	Lead Wire Group (Special Wisconsin Spec. C-962C)	.55
16-X477B	Distributor Arm Group . . .	.50	X2766	Coil Group	4.65
16-738*	Breaker Arm Spring Screw .	.05	X2785	Distributor Cap Group (R Cyl.)(Towers Open Down)	2.50
16-738*	Breaker Arm Clamp Screw .	.05	X2798	Cover Group (Horizontal Ter- minal) (Multi-Cylinder) . .	3.00
16-738*	Distributor Clip Screw . . .	.05	X2799	Cover Group (Vertical Ter- minal) (Single Cyl.)	3.00
X1004	Lead Wire Group (First used Wisconsin C-241F) . . . .	.70	X2938	Distrib. Cap Group (R Cyl.) (J. Deere Spec. C-1042) . .	2.50
1194	Cam Oil Pad . . . . .	.05	X3033*	Lead Wire Group . . . . .	.40
1196	Fixed Contact . . . . .	.55	X3034*	Lead Wire Group . . . . .	.50
1197*	Breaker Arm Spacing Washer (3/64" thick) . . . . .	.05	3101	Breaker Cover (1 Cyl.) . . .	.30
1207*	Breaker Arm Clamp Washer	.05	3103	Breaker Cover Hold Down Sp. (Used to Hold 3101 in place) . . . . .	.20
1383*	Condenser Clamp Screw . .	.05	X3128	Distrib. Cap Group (4 Cyl.) (Vertical Terminal Opening Upward) (Screw Type) . . .	3.00
X-1408	Breaker Arm Group	1.75	X3132	Distrib. Cap Group (2 Cyl.) (Vertical Terminal Opening Downward) (Screw Type) . .	2.50
X1413	Condenser Group	1.75	X3184	Cover Group (Single Cyl.) (Horizontal Terminal) . . .	3.00
1418*	Breaker Arm Spacer . . . . .	.05	X3343*	Breaker Point Set (includes 1196-X1408) (Tungsten Pts.)	1.85
X1503*	Distributor Clip Assembly . .	.25	3365*	Float Member (Special for Fordson when Pierce Gov- ernor is used)	1.30
1533	Condenser Case Gasket . . .	.05	X3392*	Gasket Kit . . . . .	.25
1760	Coil Gasket . . . . .	.05	X5291	Gear Housing	5.00
1989*	Distributor Oil Pad Cover . .	.10			
2264B	Coil Wedge . . . . .	.05			
2497	Gear Housing Gasket . . . . .	.05			
2497	Distributor Cap Gasket . . .	.05			
2503*	Coil Core Clamp . . . . .	.05			
2504	Cover Gasket . . . . .	.05			
2537*	Gear Housing Screw . . . . .	.05			
2537*	Distributor Cap Screw (R Cyl. only) . . . . .	.05			
X2704	Distributor Cap Group (4 Cyl.)(Push Type Terminal)	2.40			
X2705	USE X3132				

*Not illustrated.

PRICES EFFECTIVE JULY 1, 1947, SUBJECT TO CHANGE WITHOUT NOTICE.

BRIEF INSTRUCTIONS

PRICE INFORMATION

MODEL 'C' WICO MAGNETOS

These prices include built-in impulse coupling, stop button or connection for remote control. Cables will be furnished where lengths are on factory specifications or when lengths are specified on the order.	TYPE	NUMBER CYLINDERS	LIST PRICES WITH STANDARD IMPULSE	Units furnished with adjustable impulse coupling similar to that on spec. C-19, C-20, C-22, add \$1.60 to the list price. Low base mounting at present only furnished for spec. C-150.
	C-1	1	\$28.00	
C-R	2	30.00		
C-2	2	33.50		
C-4	4	33.50		

Prices apply to Base or Flange Mounted Magneto with or without Dust Cover, but without Drive Gears, Float Members, or Engine Members.

WARRANTY

We warrant each piece of apparatus manufactured by us to be free from defects in material and workmanship under normal use and service. Our obligation under this warranty is limited to the furnishing of any part of said apparatus which shall within a period of ninety (90) days after delivery to the original purchaser, be returned either to one of our authorized service stations, or to the factory, transportation charges prepaid, and which, upon examination by one of our authorized representatives, shall disclose to our satisfaction to have been thus defective.

Any magneto or other piece of apparatus shall not be considered to have been under normal use and service if it appears to have been subjected to misuse, abuse, neglect or accident,

or if it has been repaired or altered outside of our factory so as, in our judgment, to affect its stability or reliability, or if any part not of Wico manufacture has been substituted for a part of Wico manufacture.

This warranty is in lieu of all other warranties, either expressed or implied; and we do not authorize any person or persons to assume for us any other liability in connection with the sale of our equipment; nor are we responsible for any liability for any damage or injury to any person or part resulting directly or indirectly from design, material, workmanship or installation of any of our apparatus.

WARRANTY ADJUSTMENT PROCEDURE

Apparatus assumed to come within the terms of the warranty should be submitted to the nearest authorized Wico Service Station with a formal request for adjustment.

If, upon examination by such authorized representation, the apparatus is found to be actually defective and within the warranty period, it will be placed in proper operating condition and no charge made, either for labor or material.

The term labor does not refer to that involving the removing or installing the apparatus, nor for transportation, duty or tax thereon, but only refers to the actual bench labor on the apparatus itself. Any labor charge other than for such bench labor, is to be borne by the owner, who will be required to sign a warranty Service Report form at the time a warranty adjustment

is made. The service station will be reimbursed upon receipt of the warranty service report by the factory.

When the Service Station is in doubt as to the cause of the apparatus being inoperative, the owner should pay the service station for the material and labor charges, who will forward the units or parts claimed defective to the factory, together with a signed warranty Service Report form. Upon receipt and examination by the factory of the units or parts and the warranty service report form, the claim will be carefully considered and if in the opinion of the factory the units or parts are found to have been defective, credit will be issued to the Service Station for both labor and material and the Service Station will reimburse the owner the amount paid for material and labor.

BRIEF INSTRUCTIONS

FACTORY
Wico Electric Company
 West Springfield, Mass.

MILWAUKEE, WISCONSIN

D. G. Forbes
 O. H. Tift
 710 Bankers Bldg.
 208 E. Wisconsin Ave.
 Milwaukee, Wisconsin

TULSA, OKLAHOMA

Harry Lolley
 310 Thompson Bldg.
 Tulsa, Oklahoma

LOS ANGELES, CALIFORNIA

V. T. Chevallier
 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., 23rd St. & Ave. B.	Texas	Amarillo	E. S. Cowie Electric, 700 Van Buren St.
Arizona	Phoenix	Jones Battery & Electric Company, 318 W. Jefferson St.	Dallas	El Paso	Beard & Stone Electric Co., 2101 Bryan at Olive
California	Los Angeles	Electric Equipment Company, 1611 So. Hope St.	Fort Worth	Houston	Oakes Battery & Elec. Co., 423 Texas St.
	San Francisco	Auto Electric & Supply Co., 543 Van Ness Ave.	Kilgore	Houston	Generator Service Company, 1115 Commerce St.
Colorado	Denver	Spitzer Electric Company, 43 W. 9th Ave.	San Antonio	Houston	Beard & Stone Electric Co., Inc., Milam at Polk St.
Florida	Jacksonville	Spencer Elec., Inc., 40 W. Beaver St.	Salt Lake City	Houston	Magneto Sales & Service Co.
	Miami	Electrical Equipment Co., 42 N. W. 4th St.	Richmond	Houston	S. X. Callahan, 419-425 N. Flores St.
	Tampa	Spencer Auto Electric Co., 607 Cass St.	Seattle	Houston	Frank Edward's Company Motor Equip. Div., 601 S. State St.
Georgia	Atlanta	Auto Electric & Magneto Co., 477 Spring St., N. W.	Spokane	Houston	Richmond Battery & Ignition Co., 1319 West Broad St.
Idaho	Boise	Oakley Automotive, 1105 Idaho St.	Charleston	Houston	Pacific Magneto Service, Inc., 2719 First Ave. So.
Illinois	Chicago	Illinois Auto Electric Co., 2101 Indiana Ave.	West Virginia	Houston	Sunset Electric Co., 300 Westlake No.
Indiana	Indianapolis	Culling Auto Electric Co., 450 N. Capitol Ave.	Wisconsin	Houston	MacFadden Ignition, 108 Broad St.
Kansas	Wichita	E. S. Cowie Electric Co., 230 S. Topeka Ave.		Houston	Wisconsin Magneto Co., 918 Broadway.
Kentucky	Lexington	Kentucky Ignition Co., Rose St. at Vine	Australia	Houston	
	Louisville	Kentucky Ignition, 737-739 S. 3rd St.	Sydney	Houston	AUSTRALIA
Louisiana	New Orleans	John M. Walton, Inc. 1009 St. Charles St.		Houston	Carr & Elliott, Cr. Kent & Market Sts.
	Shreveport	Magneto Ignition Service Co., 804 Louisiana Ave.	Alberta	Houston	
Maryland	Baltimore	Parks & Hull Automotive Corp., 1033 Cathedral St.	Calgary	Houston	CANADA
Massachusetts	Boston	A. & J. Auto Ignition Company, 55 Brighton Ave.	Edmonton	Houston	R. Hutton, 131 Eleventh Ave., West.
Michigan	Detroit	Auto Elec. & Service Corp., 90 Selden Ave.	British Columbia	Houston	Smith Battery & Auto Elec.
Minnesota	Minneapolis	Reinhard Bros. Co., Inc., 11 S. 9th Street	Vancouver	Houston	Jeffree & Jeffree, Ltd., 775 Homer St.
Missouri	Kansas City	E. S. Cowie Electric Co., 1819 Wyandotte St.	Winnipeg	Houston	Beattie Auto Electric Co. Ltd., 176 Fort St.
	St. Louis	Medart Auto Elec. Co., Inc., 3134 Washington Blvd.	Toronto	Houston	A. Cross & Co., 45 Elm St.
Montana	Billings	Lee Pasley	Montreal	Houston	International Electric Co., Ltd., 1037 Bleury St.
Nebraska	Omaha	Carl A. Anderson, Inc., 16th and Jones St.	Regina	Houston	Elec. Motor Service.
New Jersey	Newark	Henry's Company, 376 High St.	Channel Islands	Houston	
New Mexico	Albuquerque	Spitzer Electrical Co.	Guernsey	Houston	CHANNEL ISLANDS
New York	Buffalo	Peter Hettrich, 1032 Ellicott St.		Houston	Auto and Electrical Supply Co., Ltd.
	Long Island City	Steiner Bros., Inc., North Blvd. at 34th St.	Cuba	Houston	CUBA
	Troy	Ehrlich Electric Service, 200 Fourth St.	Habana	Houston	Electrical Equipment Co. of Cuba, Avenida de Italia 29.
North Carolina	Charlotte	Carolina Rim & Wheel Co., 306 No. Graham St.	Hawaii	Houston	HAWAIIAN ISLANDS
North Dakota	Fargo	Reinhard Bros.	Honolulu, T. H.	Houston	Automotive Service Co., So. and Kawaiahao Streets.
Ohio	Cleveland	Electric Power Maintenance, E. 30th & Prospect	Mexico	Houston	MEXICO
	Toledo	Electric Power Maintenance Co., 26-30 17th St.	Mexico City	Houston	Annahuac Machinery Co., SH. Bucareli No. 12
Oklahoma	Oklahoma City	American Electric Ignition Co., 725 N. Broadway	New Zealand	Houston	NEW ZEALAND
	Tulsa	Magneto Ignition, 701 W. Fifth Ave.	Wellington	Houston	H. E. W. Silver Magneto & Ignition Co., 45/7 Lower Cuba St.
Oregon	Portland	Magneto Equipment Co., 1111 So. E. Grand Ave.	Philippine Is.	Houston	PHILIPPINE ISLANDS
Pennsylvania	Philadelphia	Tri-State Electric Co., 3350 N. Broad St.	Manila	Houston	Ramcar, Inc., 110 Padre Faura
	Pittsburgh	Automotive Ignition Co., 4917 Baum Blvd.	Porto Rico	Houston	PORTO RICO
Rhode Island	Providence	A & J Auto Ignition, 43 Broadway	San Juan	Houston	Ricardo Davila, P. O. Box 475.
South Dakota	Aberdeen	Reinhard Bros.	Roumania	Houston	ROUMANIA
Tennessee	Knoxville	R. T. Clapp Co., 401 No. Broadway	Bucaresti	Houston	Progressu Mecanic.
	Memphis	Automotive Electric Service Company, 918 Linden St.	South Africa	Houston	SOUTH AFRICA
			Durban	Houston	Messrs. J. M. Moir
			Bloemfontein	Houston	Electric Service Station Corp., Ltd., 34 Henry St.
			Cape Town	Houston	Motor Units Pty., Ltd., Cor. Bree and Rieckee Streets.
			Johannesburg	Houston	Thos. Barlow & Sons, Ltd., (S. A.)
			Argentina	Houston	SOUTH AMERICA
			Buenos Aires	Houston	Armando Bonelli, Rauch 1849, Entre Calleo y Corrientes.

Replace with **WICO**

AND RECEIVE
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OF THESE **WICO**
FEATURES:



**CIRCULATING
LUBRICATION**

**PRECISION
BREAKER**

**COMPACT
DESIGN**

**EFFICIENT
PERFORMANCE**

POPULAR because they give efficient, dependable service, WICO magnetos are widely used on engines for tractors, trucks, combines, harvesters, sprayers, shovels, and power machinery generally.

ORIGINAL equipment in most cases, WICO magnetos are also available for replacement of other ignition.

YOUR WICO dealer will be glad to tell you about a WICO magneto for your engine.

DISTRIBUTED BY:

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