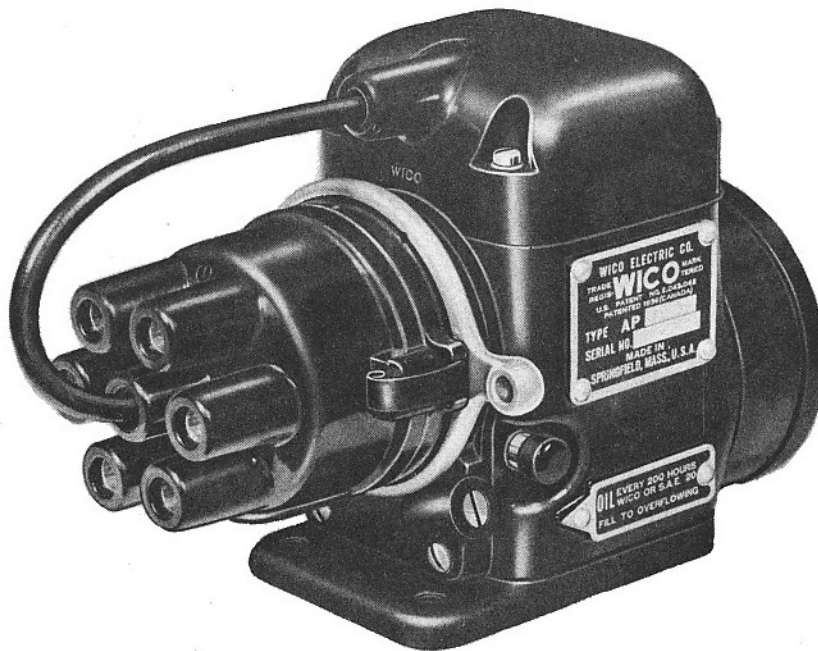


COMPLETE INSTRUCTIONS AND PARTS LIST
FOR CARE AND OPERATION OF

SERIES AP WICO MAGNETOS



**WICO-BUILT
IGNITION**

Wico Electric Company
WEST SPRINGFIELD, MASSACHUSETTS

Brief Instructions for Care of SERIES AP WICO MAGNETOS

MODELS AP-1, AP-R*, AP-2*, AP-G*, AP-3, AP-4, AP-6

FOREWORD

Wico Magnetos are built of the best of material by expert workmen. Each magneto is carefully tested before it leaves the factory. By these methods the Wico Electric Company has endeavored to produce a magneto of high quality capable of giving long service. The life of a magneto can be considerably prolonged by reasonable attention to its care and operation. The following instructions will be helpful.

INSTALLATION

When installing the Series AP WICO Magneto on a base mounted application, extreme care should be taken to see that there is proper alignment between the driving member and the lugs of the magneto drive cup.

Before tightening the mounting screws it should be ascertained by turning over the engine, that the alignment is correct, and that the float member has sufficient end play during every part of the cycle. The screws should then be tightened up firmly. Care should 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 spark is to be used in timing the magneto to the engine, and in the absence of other information from the engine manufacturer, turn the magneto shaft over in the proper direction of rotation until the impulse coupling has just tripped and the monel metal segment of the distributor arm is near the tower marked No. 1 on the distributor cap; then turn the engine over to top dead center on cylinder number one on the compression stroke and couple the magneto to the engine.

TIMING TO ADVANCE SPARK

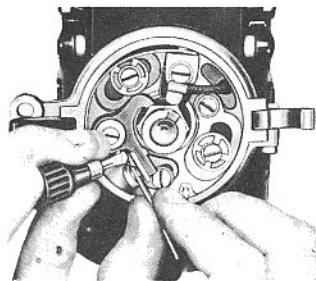
Where the engine flywheel is marked with the position of advance of running spark, usually indicated by IGN, a different procedure is followed.

For multi-cylinder engines, with the distributor cap removed, turn the magneto shaft in a direction opposite to its ordinary rotation until the pointer on the distributor arm marked with the correct number of cylinders is directly over the pointer on the end of the breaker box. This is the position where a spark will be delivered at the terminal marked No. 1. Turn the engine over until the advance spark mark on the flywheel is correctly located on the compression stroke of cylinder number one and couple the magneto in this position.

For a one cylinder magneto the same procedure is followed except that it is necessary to determine the spark position by means of a thin piece of paper between the breaker points since there is no distributor arm.

BREAKER POINT OPENING

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



IMPULSE LAG

Any impulse range or lag up to 52½° on the magneto can be obtained by adjusting the impulse stop ring under the end plate screws. It should be borne in mind, however, that if the magneto is driven at more than the crankshaft speed of the engine a reduction in proportion to this ratio will take place in computing the lag on the engine.

In order to reach the end plate screws in adjusting the impulse lag, it is necessary first to remove the four screws holding the dust plate to the impulse cup, gently prying out the impulse seal felt underneath it with a thin instrument, and also the impulse seal washer. The end plate screws may then be loosened and the impulse stop ring rotated to the adjustment desired.

Radial marks, five degrees apart, are cast into the end plate to act as a guide to the amount of this rotation in adjustment. Rotation of the impulse stop in the same direction as that of the magneto's rotation will increase the impulse lag and conversely rotation in the opposite direction will reduce it. The degrees change in lag is equal to the degrees rotation of the ring.

MANUAL VARIATION OF SPARK

The amount of manual variation of the magneto is determined by what range plate is used in the breaker box.

Range plates can be provided which will yield ranges in steps of five degrees from fixed spark to 35° manual spark retard when measured on the engine crankshaft.

LUBRICATION

The magneto is provided with two oilers, one on each side of the gear case so that whichever way the magneto faces the engine one oiler will always be convenient.

Once every two hundred hours of operation these oilers should be filled to overflowing with WICO or SAE 20 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" automobile transmission grease will most closely resemble the lubricant used in the factory. Do not use ordinary grease.

FLUSHING OF IMPULSE

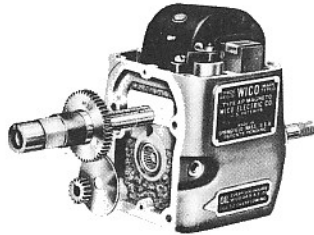
If the impulse becomes clogged with dirt the necessity for flushing it is evidenced by the trip arms failing to engage or disengage, or by sluggishness in the action of the impulse when it trips. The dust plate over the impulse cup, the impulse seal felt and the impulse seal washer should be removed,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

REMOVAL OF MAGNETO COVER

Pull out the secondary interlead from the cover terminal. Loosen the four screws holding the cover to the main housing and pull off the cover. The screws are prevented from being separated from the cover by snap rings. The gasket must be removed with cover.

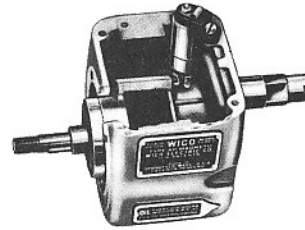
REMOVAL OF COIL

With the magneto cover off, unscrew the small slotted nut holding the primary lead to the condenser support. Remove the two screws holding the core clamps with their lock washers. *Turn the rotor of the magneto over until the magnetism no longer grips the coil core to the main housing.* Pull the coil and coil core free. Pull the coil gaskets at either side of the coil off the core. The coil is held on the coil core by a wedge. If the coil is to be replaced it will, therefore, be necessary to press with considerable pressure to remove the coil from the core. Care should be exercised in avoiding damage to the winding during the operation. In replacing the coil and coil core be sure the ground surface of the core is against the housing and that the primary leads are properly located.



REMOVAL OF CONDENSER

With the magneto cover off, disconnect the lead to the condenser support. Remove the screw which holds the condenser support to the housing and lift out the condenser assembly.



REPLACEMENT OF BREAKER POINTS

It is recommended that if the points need replacing both the fixed and moving

points 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 remove the assembly from 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 removed from the breaker arm pivot after the fixed contact screw has been removed.

When major repairs are necessary an authorized Wico Service Station can best do the work. These appointed Stations are selected for their ability to do good work at reasonable prices. They carry the necessary stock of parts and service equipment to enable them to take care of any Wico promptly. A complete list of all authorized Wico Sales and Service Stations will be furnished upon request.

REMOVAL OF DISTRIBUTOR

Wedge the distributor clips out with a screw-driver and pull the cap off with its gasket. The distributor arm can then be pulled directly off the cam.

The cap should be free of any dust or dirt before being re-installed. The filtering ventilation screen at the bottom of the cap should be cleaned and any material which may clog it should be removed.

*An AP-R is a two cylinder magneto where a spark occurs every 180° of magneto drive shaft rotation.

An AP-G is a two cylinder magneto where the time between the sparks is uneven, having 180° of magneto drive shaft rotation between one pair of consecutive sparks, not to be followed by another spark until after the magneto drive shaft has turned 540°.

An AP-2 is a two cylinder magneto with sparks occurring every 360° of magneto drive shaft rotation.

RANGE PLATE TABLE

This table shows which of the range plates 1425A to 1425U to use on a given application.

Degrees Manual Spark Variation on Engine Crankshaft	Range Plate Identification Letter					
	AP-1 & AP-R		AP-2, 4 & G		AP-3 & 6	
	CW	CCW	CW	CCW	CW	CCW
	Rot.	Rot.	Rot.	Rot.	Rot.	Rot.
Fixed	B	A	A	B	A	B
2½	D	C				
5	F	E	C	D		
7½	H	G			C	D
10	J	I	E	F		
12½	L	K				
15	N	M	G	H	E	F
17½	P	O				
20	R	Q	I	J		
22½					G	H
25	T	S	K	L		
30	U	U	M	N	I	J
35			O	P		
37½					K	L
40			Q	R		
45					M	N
50			S	T		
52½					O	P

LIST PRICES OF COMPLETE MAGNETOS

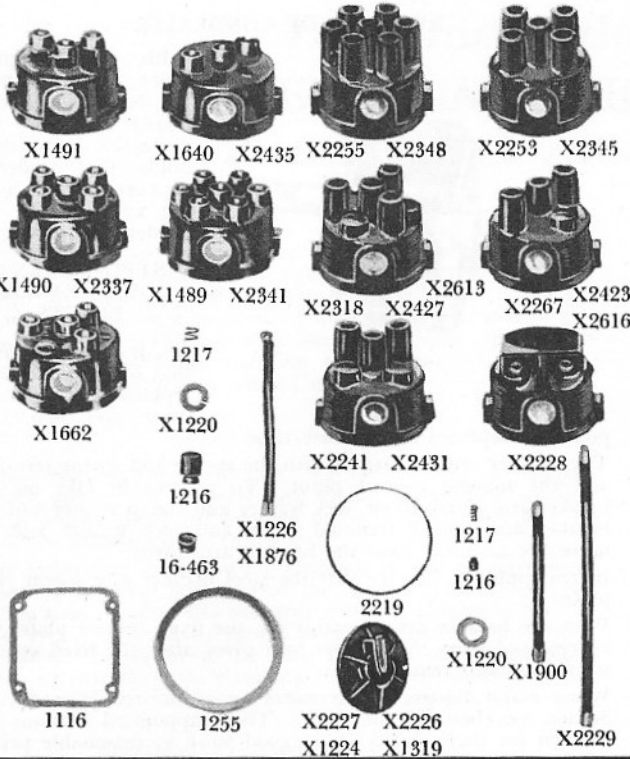
Type	List Price Base Mounted	Standard Models Flange Mounted	List Price Base Mounted	Heavy Duty Flange Mounted
AP-1	Not Supplied	in Standard Models	\$40.70	\$42.00
AP-1-720°	Not Supplied	in Standard Models	47.70	49.00
AP-R	Not Supplied	in Standard Models	42.30	43.50
AP-G	\$37.10	\$38.40	46.40	47.70
AP-2	37.10	38.40	46.40	47.70
AP-3	40.20	41.50	49.50	50.70
AP-4	37.10	38.40	46.40	47.70
AP-6	40.20	41.50	49.50	50.70

These prices include built-in coupling.

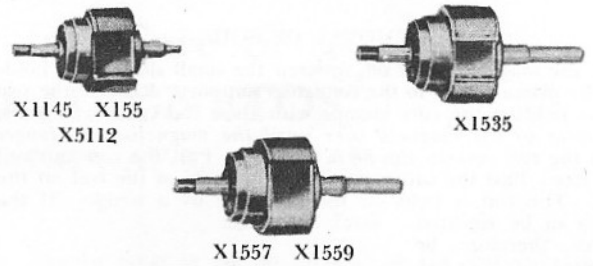
For manually controlled impulse add \$3.10 to the list price.

All heavy duty AP magnetos are furnished with tungsten breaker points as standard equipment. Platinum breaker points will be furnished on any AP magneto when specified on the order at an additional charge of \$2.60.

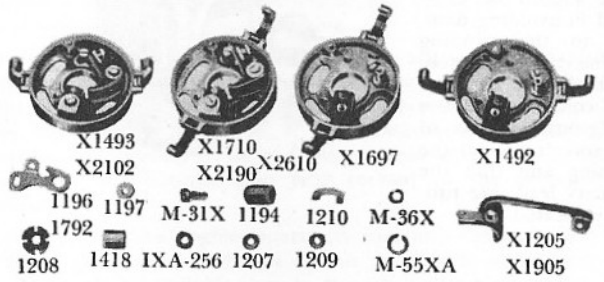
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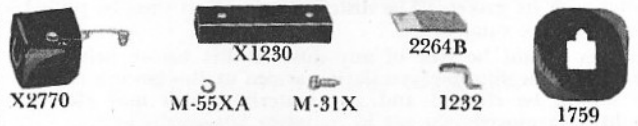
Distributor Units and Parts



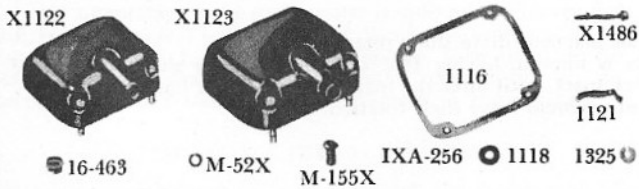
Rotor Assemblies



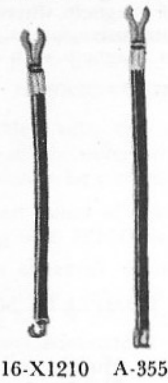
Breaker Box Units and Parts



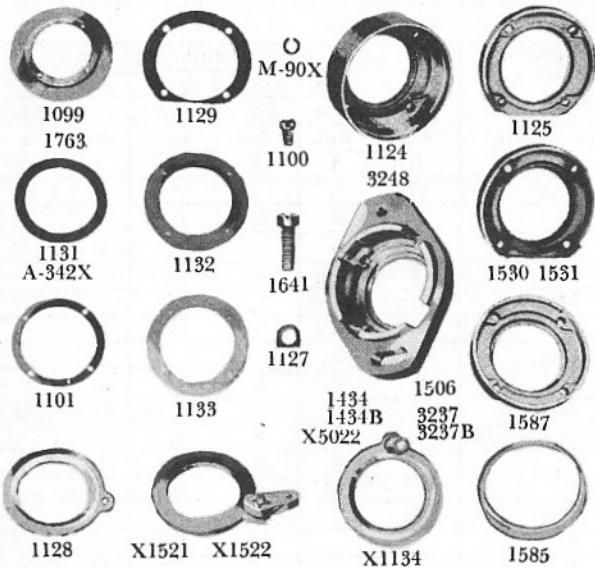
Coil and Coil Core Unit



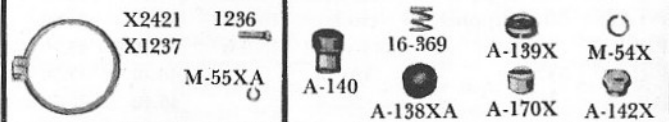
Cover Units and Parts



Lead Wires

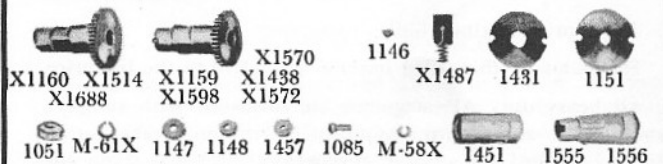


End Plate Units and Parts



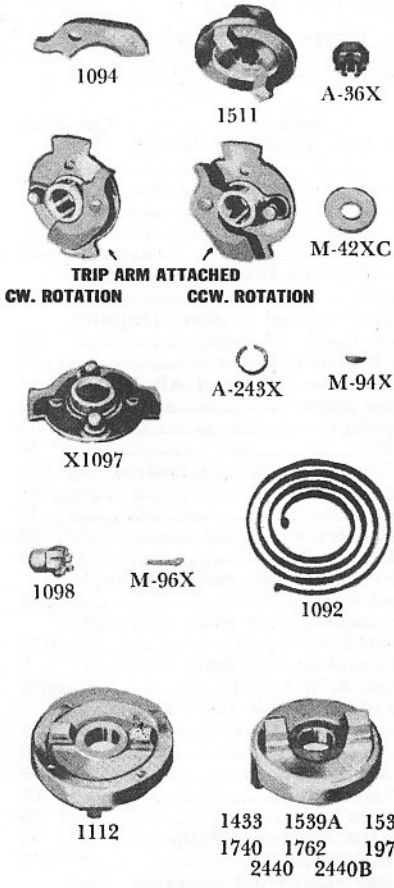
Timing Lever Unit

Stop Button Unit

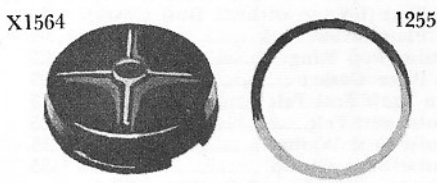


Distributor Gear and Cam Units and Parts

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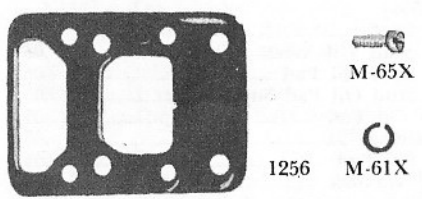
Impulse Coupling Units and Parts



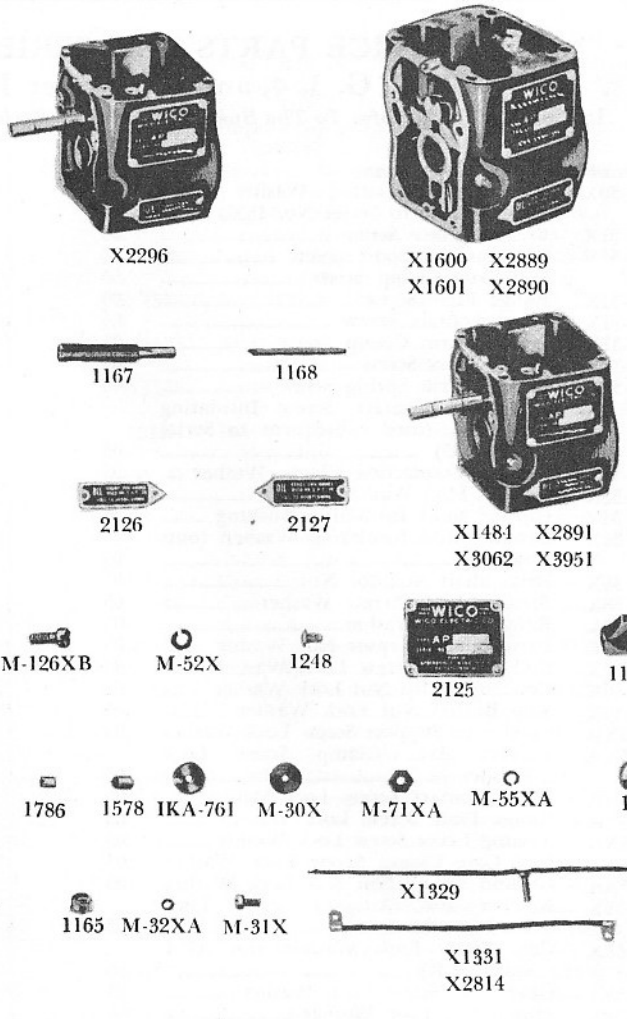
Breaker Box Cover



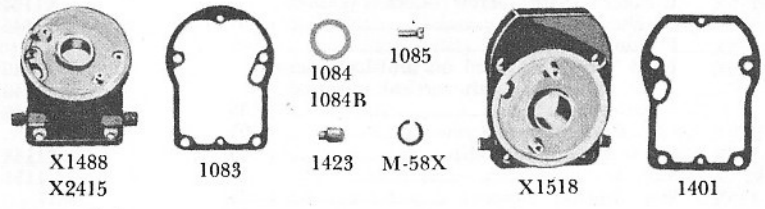
Ground Connection Unit



Adaptor Plate Unit and Parts



Main Housing Units and Parts



Breaker Box Supporting Units and Parts



Gear and Breaker Case Units

SERVICE PARTS FOR SERIES AP WICO MAGNETOS
(1, R, 2, G, 3, 4, and 6 Cylinder Types and Heavy Duty Models)

In Ordering Parts Refer To The Specification And Serial Number Of The Magneto To Insure Correct Parts

Symbol	Name	List Price	Symbol	Name	List Price
M-30X	Condenser Insulating Washer (used subsequent to Serial No. 1535)	.....\$.05	IXA-862	Ground Stud Insulating Washer (Inside)	......05
M-31X	Breaker Plate Screw	......05	18-899	Ground Stud-Condenser Lead Terminal	......05
M-31X	Condenser Support Screw	......05	1031	Pinion Nut	......05
M-31X	Coil Core Clamp Screw	......05	1083	Gear Case Gasket	......05
M-31X	Range Plate Screw	......05	1084	Gear Case Sealing Washer (previous to No. 2300)	......05
M-31X	Fixed Contact Screw	......05	1084B	Gear Case Sealing Washer (requires Washer Cover No. 1883)	......05
M-31X	Breaker Arm Clamp Screw	......05	1085	Breaker Box Adaptor Screw	......05
M-31X	Breaker Box Screw	......05	1085	Cam Screw (for AP-1 and AP-R)	......05
M-31X	Breaker Arm Spring Screw	......05	1085	Gear Case Screw	......05
M-32XA	Condenser Contact Screw Insulating Bushing (used subsequent to Serial No. 1535)	......05	1092	Drive Spring	......75
M-33X	Ground Connection Clamp Washer	......05	1094	Trip Arm	......30
M-33X	Ground Stud Washer	......05	X1097	Driven Flange Group (all models)	.....1.75
M-34X	Ground Stud Insulating Bushing	......05	1098	Impulse Lock Nut	......40
M-35X	Ground Stud Insulating Washer (outside)	......05	1099	Dust Plate	......10
A-36X	Drive Shaft Adaptor Nut	......05	1100	Dust Plate Screw	......05
M-36X	Breaker Plate Screw Washer	......05	1101	Dust Plate Gasket	......05
M-36X	Range Plate Washer	......05	X1103	Impulse coupling unit (with 1112 cup) (CW-1 & 2 cyl.)	.....6.75
M-42XC	Drive Shaft Adaptor Nut Washer	......05	X1104	Impulse coupling unit (with 1112 cup) (CCW-1 & 2 cyl.)	.....6.75
M-52X	Coil Contact Screw Lock Washer	......05	X1105	Impulse coupling unit (with 1112 cup) (CW-R, G & 4 cyl.)	.....6.75
M-52X	Condenser Clip Nut Lock Washer	......05	X1106	Impulse coupling unit (with 1112 cup) (CCW-R, G & 4 cyl.)	.....6.75
M-54X	Stop Button Nut Lock Washer	......05	1110	Gear Case Oil Pad	......05
M-55XA	Condenser Support Screw Lock Washer	......05	1112	Drive Cup (standard)	.....2.65
M-55XA	Breaker Arm Clamp Screw Lock Washer	......05	1116	Cover Gasket	......05
M-55XA	Fixed Contact Screw Lock Washer	......05	1117	Cover Screw	......05
M-55XA	Range Plate Screw Lock Washer	......05	1118	Cover Screw Washer (Leather)	......05
M-55XA	Timing Lever Screw Lock Washer	......05	1121	Coil Contact	......05
M-55XA	Coil Core Clamp Screw Lock Washer	......05	X1122	Cover Unit (horizontal terminal) (includes Gasket)	.....1.75
M-55XA	Ground Connection Nut Lock Washer	......05	X1123	Cover Unit (vertical terminal for AP-1) (includes Gasket, Term. Nut)	.....1.75
M-58X	Breaker Box Adaptor Screw Lock Washer	......05	1124	End Plate (for use with Dust Cover)	......70
M-58X	Cam Screw Lock Washer (for AP-1 and AP-R)	......05	1125	End Plate (for use without Dust Cover)	......55
M-58X	Gear Case Screw Lock Washer	......05	1127	End Plate Screw Lock	......05
M-61X	Pinion Nut Lock Washer	......05	1128	Impulse Stop Ring	......25
M-61X	Adaptor Plate Screw Lock Washer	......05	1129	End Plate Gasket	......05
M-65X	Adaptor Plate Screw	......05	1131	Drive Shaft Seal Felt	......15
M-71XA	Condenser Clip Nut	......05	1132	Impulse Seal Felt	......15
M-72X	Ground Stud Nut	......05	1133	Impulse Seal Washer	......15
M-90X	Dust Plate Screw Lock Washer	......05	X1134	Impulse Stop Group	......55
M-94X	Impulse Coupling Key	......05	X1145	Rotor Assembly (for AP-2, AP-G, AP-3, AP-4, and AP-6)	.....11.05
M-96X	Impulse Lock Nut Cotter Pin	......05	1146	Cam Key (for AP-1 and AP-R)	......05
M-115X	Breaker Plate Screw Lock Washer (Use M-55XA)	......05	1146	Pinion Gear Key	......05
M-116X	Pinion Nut L. W.	......05	1147	Pinion Gear (for AP-2, AP-G, and AP-4)	......60
+16-X121C	Lead Wire 12" (used on multicylinder AP and AP-1 with vertical terminal outlet)	......35	1148	Pinion Gear (for AP-3 and AP-6)	......55
M-126XB	Coil Core Clamp Screw	......05	1151	Oiling Disc (for AP-2, AP-G, AP-3, AP-4, and AP-6)	......05
M-133X	Screw for support clip	......05	1158	Cam Shaft plug	......05
A-138XA	Stop Button	......10	X1159	Cam Group (for AP-4) (includes Gear)	.....3.50
A-139X	Stop Button Support	......05	X1160	Cam Group (for AP-6) (includes Gear)	.....3.50
*A-140	Stop Button Group	......30	1163	Use 4683	.....
A-142X	Stop Button Nut	......05	X1166	Condenser Assembly (Superseded by X2595)	.....
A-155	Ground Connection Unit	......25	1167	Cam Stud	......75
M-155X	Coil Contact Screw	......05	1168	Cam Stud Oil Wick	......05
A-170X	Grounding Sleeve	......10	1169	Cam Stud Oil Pad	......05
A-243X	Trip Arm Pivot Snap Ring	......05	1170	Cam Stud Oil Pad Support	......05
IXA-256	Cover Screw Washer (Metal)	......05	1171	Main Oil Pad	......05
IXA-256	Fixed Contact Screw Washer	......05	1172	Oil catcher	......05
A-342X	End Plate Felt (Fordson)	......25	1194	Cam Oil Pad	......05
IXA-345	Oil Plug	......05	1196	Fixed Contact	......55
+A-355	Lead Wire Group 12" (used on horizontal terminal outlet)	......35			
16-369	Primary Grounding Spring	......05			
16-463	Ground Lead Clamp Nut	......10			
16-463	Lead Wire Terminal Nut	......10			
IKA-761	Condenser Contact Nut. (used subsequent to Serial No. 1535)	......05			

+Add 1 cent to the List Price per inch for each inch over 1 foot.

*Not illustrated.

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Symbol	Name	List Price	Symbol	Name	List Price
1197	Breaker Arm Spacing Washer05	1506	End Plate (for standard Flange Mounting)	1.85
1197T	Breaker Point Spacing Washer (use with 1197 when required) .....	.05	X1507	End Plate Unit	2.85
X1205	Breaker Arm Group	1.30	X1509	Impulse coupling unit (with 1506 cup) (CW-G, & 4)	7.00
1207	Breaker Arm Clamp Washer .....	.05	X1518	Breaker Box Adaptor Group (for AP-1 and AP-R)	2.15
1208	Friction Washer (used under, M-31X) .....	.05	X1521	Impulse Stop Assembly (for manual control impulse, clock rotation)	1.35
1209	Breaker Box Screw Washer .....	.05	X1522	Impulse Stop Assembly (for manual control impulse, counter-clock rot.)	1.35
1210	Distributor Clip .....	.15	1530	End Plate (for manual control impulse, clock rotation) .....	.75
1216	Use X5224		1531	End Plate (for manual control impulse, counter-clock rotation) .....	.75
1217	Use X5221		X1535	Rotor Assembly (for Heavy Duty AP-1)	17.95
X1220	Ventilating Screen Group .....	.15	1539A	Drive Cup (for standard Flange Mounting)	2.65
X1224	Distributor Arm Group CW (Use on machines with screw type distributor cap for variable or fixed spark) (Use also on machines with tower type cap having variable spark) .....	.90	1539B, D	Drive Cup (for Oliver "Row Crop" tractor)	3.15
X1226	Secondary Interlead Group (for AP-2, AP-G, AP-3, AP-4, and AP-6) .....	.35	1539E, F	Drive cup (for standard flange mtg.)	3.70
X1230	Core Group for Coil .....	.60	X1554	Rotor Assembly (for Heavy Duty AP-2, AP-G, AP-3, AP-4, and AP-6)	17.40
1232	Coil Core Clamp .....	.05	1555	Cam	2.30
1236	Timing Lever Screw .....	.05	1556	Cam	2.30
X1237	Timing Lever Group .....	.50	X1557	Rotor Assembly (for AP-R)	11.05
1248	Name Plate Rivet .....	.05	X1559	Rotor Assembly (for Heavy Duty AP-R)	17.40
1248	Oil Instruction Plate Rivet .....	.05	1563	Breaker Grounding Arm (30° retard CCW) .....	.10
1249	Name Plate .....	.15	X1564	Breaker Box Cover Group (for AP-1) (includes Gasket)	1.25
1250	Oil Instruction Plate (Right side) .....	.15	1565	Breaker Grounding Arm .....	.10
1251	Oil Instruction Plate (Left side) .....	.15	X1567	Impulse coupling unit (CW-1 & 2 cyl) (with 1539A, flange mounting)	7.00
1255	Breaker Box Cover Gasket (for AP-1) .....	.05	X1568	Impulse coupling unit (CCW-1 & 2 cyl.) (flange mounting)	7.00
1255	Distributor Cap Gasket .....	.05	X1569	Impulse coupling unit (CCW-4 & 6 cyl.) (flange mounting)	7.00
1256	Adaptor Plate (provides S. A. E. mounting when used with 7/8" float)	1.00	X1570	Cam Group (for AP-G, counter-clock rotation) (includes Gear)	3.50
X1319	Distributor Arm Group CCW (Use on machines with screw type distributor cap for variable or fixed spark) (Use also on machines with tower type cap having variable spark) .....	.85	X1572	Cam Group (for AP-2, clock rotation) (includes Gear)	3.50
1325	Cover Screw Snap Ring .....	.05	1578	Cam Stud Bushing Plug .....	.15
1328	Ground Stud .....	.05	X1584	Main housing unit (J. Deere)	11.60
1329	Use X2533 and X2534		1585	Oil Ring (for later style Fordson Tractor) .....	.30
X1331	Condenser-to-Breaker Lead Group .....	.10	1587	End Plate (for later style Fordson Tractor) .....	.90
1401	Breaker Box Adaptor Gasket .....	.05	*X1593	Imp. Coup. Unit (Special for Fordson)	7.00
1418	Breaker Arm Spacer .....	.05	X1598	Cam Group (for AP-2 counter-clock rotation) (includes Gear)	3.50
1423	Oiler .....	.15	X1601	Main Housing Assembly (Standard) (for AP-1)	11.60
X1424	USE 2595		X1640	USE X2435	
1425A-1425U	Range Plates (see table, back page) .....	.05	1641	End Plate Screw .....	.05
1431	Oiling Disc (for AP-1 and AP-R) .....	.05	X1688	Cam Group (for AP-3, counter-clock rotation) (include Gear)	4.05
1433	Drive Cup (on machines prior to No. 5867 for J. Deere Flange mtg.)	3.15	X1697	Breaker box (Use on AP-1, and R with screw type distributor cap)	1.90
1433B	Drive Cup (on machines after No. 5867 for J. Deere Flange mtg.)	3.15	X1710	Breaker box assembly (Use on AP-1 & R with screw type distributor cap)	3.50
1434	End Plate (for J. Deere model B. fl. mtg. on mach. prior to No. 4520)	1.85	1740	Drive Cup (with 5/16" extension lugs)	2.25
1434B	End Plate (on mach. after No. 4520 for J. Deere flange mounting)	1.85	1759	Coil Gasket .....	.05
X1438	Cam Group (for AP-G clock rotation) (includes Gear)	3.50	1762	Drive Cup (Extension Lugs—Provides S. A. E. mounting of magneto)	3.25
1451	Cam (for AP-1)	2.10	1763	Dust Plate (for use with 1762) .....	.25
1457	Cam Screw Washer (for AP-1 and AP-R) .....	.05	1786	Condenser Lead Nut .....	.05
X1484	Main Housing Assembly (Standard) (for AP-2, AP-G, AP-3, AP-4, and AP-6)	11.60	1792	Fixed Contact (Platinum Points)	1.65
X1485	Ground Stud Unit (consists of X1329, 1328, and 18-899 packed loose together) .....	.30	*X1803	Rotor Assembly (Multi-cyl.) (S. A. E. Large taper)	11.05
X1486	Cover Screw Unit (includes 1117, 1118, 1325, IXA-256) .....	.15	X1876	Secondary Interlead Group (for AP-R) .....	.20
X1487	Oil Scraper Assembly .....	.25	1883	Gear Case Sealing Washer Cover .....	.05
X1488	Gear Case Group (includes 1084B, 1423 (2) and 1883)	1.45	X1900	Secondary Interlead Group .....	.35
X1489	USE X2341		X1905	Breaker Arm Group (with Platinum Points)	2.45
X1490	USE X2337				
X1491	Distributor Cap Assembly (for AP-G) (includes 1216, 1217, X1220, 1255)	2.80			
X1492	Breaker box (Use on AP-2, G, 4 & 6 with screw type distributor cap)	1.95			
X1493	Breaker box assembly including points (Use on AP-2, G, 4 & 6 with screw type distributor cap)	3.40			

*Not illustrated.

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

Symbol	Name	List Price	Symbol	Name	List Price
*X1915	Imp. Coup. Unit (CW-R, G & 4 cyl.) (Ext. drive lugs)	7.50	*X2466	Imp. Coup. Unit (CW) (Special for Allis-Chalmers Spec. 925)	7.55
*X1916	Imp. Coup. Unit (CCW-R, G & 4 cyl.) (Ext. drive lugs)	7.50	X2533	Ground Stud and Breaker Lead R.H.	.20
X1961	Coil Group (Use X2770)		X2534	Ground Stud and Breaker L.H.	.20
1973	Drive Cup (Special for later style Fordson Tractor)	3.05	2573	Breaker Arm Spring Screw L. W.	.05
X2005	Use 2770		*2584	Adaptor Plate (Bessimer type X)	1.45
*X2046	Imp. Coup. Unit (Flange Mounting)	5.25	X2595	Condenser assembly (includes drive screw and clip)	1.60
X2102	Breaker Box Assembly (Multicyl.) (Platinum Points)	5.80	X2598	Condenser Assembly (H. D.)	1.75
2125	Name Plate (Heavy Duty AP)	.15	*X2606	Timing Lever Assembly (AP-R only)	1.85
2126	Oil Instruction Plate (R.H.) (Heavy Duty AP)	.15	X2608	Breaker box assembly, includes points (Use on APR with tower type dis- tributor cap)	1.75
2127	Oil Instruction Plate (L.H.) (Heavy Duty AP)	.15	X2610	USE X2608	
X2190	Breaker Box Assembly (1 cyl. and R cyl.) (Platinum Points)	5.80	X2613	Distributor Cap (AP-R only std.)	2.80
2219	Distributor Cap Gasket	.05	X2616	Distributor Cap Assembly (R cyl.) (3 screens H. D.)	3.35
X2226	Distributor Arm Group CCW (Tower Type Dist. Cap) (Fixed Spark)	.90	*2626	Adaptor Plate (R cyl. only) (after serial 15041)	1.00
X2227	Distributor Arm Group CW (Tower Type Dist. Cap) (Fixed Spark)	.90	*X2750	Rotor Assembly (Single cyl.) (Heavy Duty) (Large taper shaft)	20.30
X2228	Distributor Cap Assembly (AP-G, in- verted towers)	3.50	X2752	Breaker Point Gauge Group (I.H.C. 960B)	.05
X2229	Secondary Interlead Group (AP-G, inverted towers)	.35	2758	Oil seal washer (J. Deere "Sidehill" tractor)	1.00
X2231	Breaker Plate Group (Replacement)	1.15	X2770	Coil Group (Std.)	3.45
X2232	Breaker Plate Assembly (new fixed spark construction)	2.65	X2814	Condenser-Breaker Lead Group	.10
2236	End Plate Screw Lock Washer (Spe- cial for Deere)	.05	*2816	Cover Screw	.05
X2237	Gear and breaker box group (Use on fixed spark AP-2, G, 4 & 6 with tower type distributor cap)	2.30	*X2837	Gasket Kit	.55
2264B	Coil Wedge	.05	X2876	Breaker box group (Multi-cyl. var- iable spark)	2.30
X2278	Breaker Plate Assembly (Plat. Points)	5.95	X2890	Main Housing Assembly (Heavy Duty) AP-R	11.60
X2337	Distributor Cap Assembly (4 cyl.) (3 screens)	3.35	X2891	USE X3608	
X2341	Distributor Cap Assembly (6 cyl.) (3 screens) (old style)	3.35	3237	End Plate (CCW) (S. A. E. Flange Low throw-out imp.)	2.15
X2345	Distributor Cap Assembly (4 cyl.) (3 screens H. D.)	3.35	3237B	End plate (CCW) (Special for Specs. 1154B & 1171)	2.15
X2348	Distributor Cap Assembly (6 cyl.) (3 screens H. D.)	3.35	3248	End plate (Special for Spec. 1151B) (CCW)	.90
2400	Condenser lead nut L. W.	.05	*X3342	Breaker Point Set (Tungsten points) (includes X1205 and 1196)	1.85
2405	Condenser Support	.20	*X3360	Rotor Assembly (1 cyl.) (720°)	17.45
X2413	Condenser Assembly (Use X2595 for all Replacements)		X3361	Cam group (1 cyl. 720° CW)	5.50
X2414	USE X2598		*X3362	Cam Group (CCW-1 cyl.) (for Spec. 1110B)	4.75
X2415	Gear Case Group (after serial 10605 on variable spark machines)	2.00	*X3505	Rotor Assembly (Multi-cyl.) (Balanced High Speed) (Special for Spec. 1000B)	19.25
X2417	Breaker box assembly, includes points (Use on AP-2, G-4 & 6 variable spark with push type distributor cap) (after serial 10605 on variable spark)	3.20	*X3511	Condenser Interlead Group (for Spec. 1000B)	.10
X2418	Breaker Assembly (Multicyl.) (Plat- inum Points) (after serial 9469 on Heavy Duty machines with variable spark)	6.85	*X3513	Condenser Breaker Lead Group (for Spec. 1000B)	.10
X2421	Timing Lever Unit (for variable spark on Std. machines after serial 10605 and on H. D. machines after serial 9469)	.50	3514	Spacing washer for support clip	.05
X2423	Distributor Cap Assembly (2 cyl.) (3 screens H. D.)	3.35	3515	Support clip	.05
X2431	Distributor Cap Assembly (G cyl.) (3 screens H. D.)	3.35	*X3517	Condenser Assembly (for Spec. 1000B)	1.75
X2435	Distributor Cap Assembly (R cyl.) (3 screens) (Button type dist. cap)	3.35	X3543	End plate with oil seal (AP-466B)	2.55
2440A	Drive Cup (used on Allis-Chalmers Spec. 919) (Multi-cyl.)	3.75	*X3606	Imp. Coup. Unit (CW-1 & 2 cyl.) (Flange Mounting) (Low throw-out impulse for Spec. 1171B)	7.55
2440B	Drive Cup (used on Allis-Chalmers Spec. 925)	3.75	*X3608	Main Housing Assembly (2 condensers) (for Spec. 1000B)	15.10
*X2441	Imp. Coup. Unit (CCW-Flange Mounting) (First used on Allis- Chalmers Spec. 919)	7.55	X3944	Impulse coupling unit (CW flange mounting AP-4 & 6 with 1539E cup)	7.55
*2442	Condenser Clip	.05	X4068	Impulse coupling unit (CW base mounting with 1112 cup)	7.55
*2443	Condenser Clip Screw	.05	X4289	Impulse coupling unit (CCW flange mounting AP-4 & 6 with 1539F cup)	6.10
			4591	Condenser connection rivet	.05
			4605	End Plate	2.55
			X4683	Rotor bearing unit	1.65
			X4770	Condenser to breaker lead	.15
			X4771	Condenser installation kit	.75
			X5022	End plate group (SAE with oil seal)	2.95
			X5070	End plate unit (includes X5022)	3.90
			X5221	Distributor brush unit (includes 1215 & 1217)	.15

*Not illustrated.