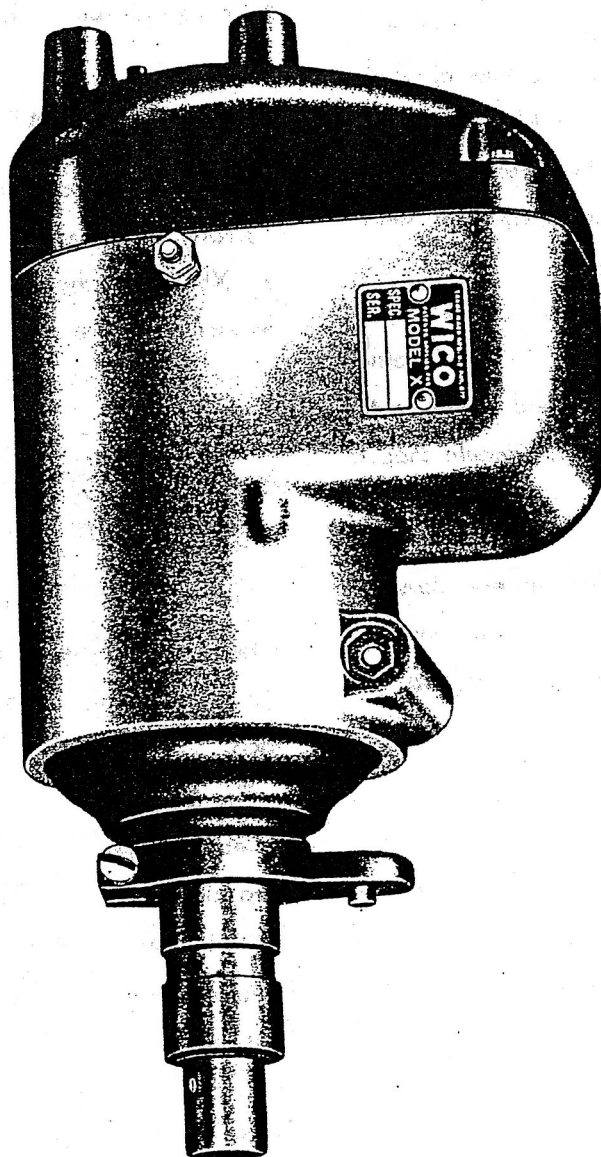


SERVICE PARTS LIST AND BRIEF INSTRUCTIONS

WICO SERIES XV MAGNETOS



WICO ELECTRIC COMPANY

WEST SPRINGFIELD, MASSACHUSETTS

BRIEF INSTRUCTIONS

INSTALLATION

The impulse spark should be used in timing the magneto to the engine in the absence of other information from the engine manufacturer. Turn the magneto shaft over in the proper direction of rotation until the impulse 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 No. 1 cylinder on the compression stroke. Clamp the magneto to the engine.

Recheck the timing after the magneto is attached to the engine by turning the engine over until No. 1 piston of No. 1 cylinder is again at top dead center on the compression stroke. Magneto impulse should snap at this point.

Note: Do NOT loosen the magneto end plate lock to adjust engine timing as this will disturb the internal timing of the magneto.

LUBRICATION

The only lubricating point in the magneto is the cam wiper felt, 5077. This felt, which lubricates the breaker arm at point of contact with the cam, should be replaced whenever it is necessary to replace the breaker contacts.

IMPORTANT

Incorrectly adjusted spark plug gaps cause magneto failure more frequently than any other condition.

Spark plugs should be inspected at frequent intervals, the size of the gap should be carefully checked and adjusted and the plugs thoroughly cleaned.

All oil, grease, and dirt should frequently be wiped off the magneto, lead wires, and spark plug insulators. Keeping these parts clean and the spark plugs properly adjusted will improve the engine performance and at the same time will prolong the life of the magneto.

DISTRIBUTOR CAP AND ARM

The distributor cap may be removed by loosening the 3 screws, 5622, which hold it in place. The distributor arm X5531 can then be removed from the shaft. When replacing the distributor arm be sure that the flat inside of the arm is lined up with the flat on the shaft.

BREAKER CONTACTS-REPLACEMENT AND ADJUSTMENT

The breaker compartment is separated from the distributor compartment by a composition breaker cover, 5628. Removing this cover exposes the breaker contacts.

The breaker contacts should be adjusted to .015" when fully opened. To adjust the contacts, loosen the two clamp screws, 5900, enough so that the contact plate can be moved.

Insert the end of a small screw driver in the adjusting slot and open or close the contacts by moving the plate until the opening is .015", measuring with a feeler gauge of that thickness, tighten the two clamp screws.

To replace the contacts remove the breaker spring clamp screw, 6017, the breaker arm lock and washer, 3219, and 4210, then lift the breaker arm from its pivot. Remove the spacing washer, 5717, and the two breaker plate clamp screws, 5900. The breaker plate can then be removed.

BRIEF INSTRUCTIONS

If the contacts need replacing it is recommended that both the fixed contact and the breaker arm be replaced at the same time, using replacement breaker set X5996.

After assembly the contacts should be adjusted as described above. The contacts should be kept clean at all times. Lacquer thinner is an ideal cleaner for this purpose. Use WICO tool S-5449, to adjust the alignment of the contacts so that both surfaces meet squarely.

CONDENSER

To remove the condenser, X5614, first disconnect the condenser lead by removing the breaker arm spring screw, 6017, then remove the two condenser clamp screws, 5411, and the condenser clamp 5532. When replacing the condenser make sure it is properly placed between the two locating bosses and that the clamp screws are securely tightened.

COIL AND COIL CORE

The coil and coil core must be removed from the magneto housing as a unit. After the distributor cap,

distributor arm, and breaker shield have been removed and the primary wire disconnected from the breaker arm spring terminal by removing screw 6017, take out the two coil core clamp screws, 5411, and remove the clamps, 5633. The coil and core can then be pulled from the housing. When replacing this group make sure that the bare primary wire is connected under the core clamp screw and that the insulated wire is connected to the breaker arm spring terminal.

REMOVAL OF COIL FROM CORE

The coil X5700, is held tight on the core, X5524, by two wedges, 10383. It will be necessary to press against the coil core with considerable force to remove it from the coil. The coil should be supported in such a way that there is no danger of the primary of the coil being pushed out of the secondary.

When replacing the coil on the coil core, slide it on then press in the two coil wedges, one on each end, until they are flush with the primary of the coil.

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

PRICE INFORMATION

MODEL XV WICO MAGNETOS

These prices include built-in impulse coupling, stop button, or connection for remote control — but do not include hold-down arms, gears, tongues or other drive members.	TYPE	FIRING ANGLE	LIST PRICES WITH IMPULSE	Cables will be furnished for an additional charge when lengths are specified on the order.
	XV-2	180°	\$42.50	
	XV-4	90°	42.50	
	XV-6 (AUTOMATIC ADV.)	60°	65.75	
	XV-6 (MINUS AUTO.-ADV.)	60°	60.75	

BRIEF INSTRUCTIONS

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

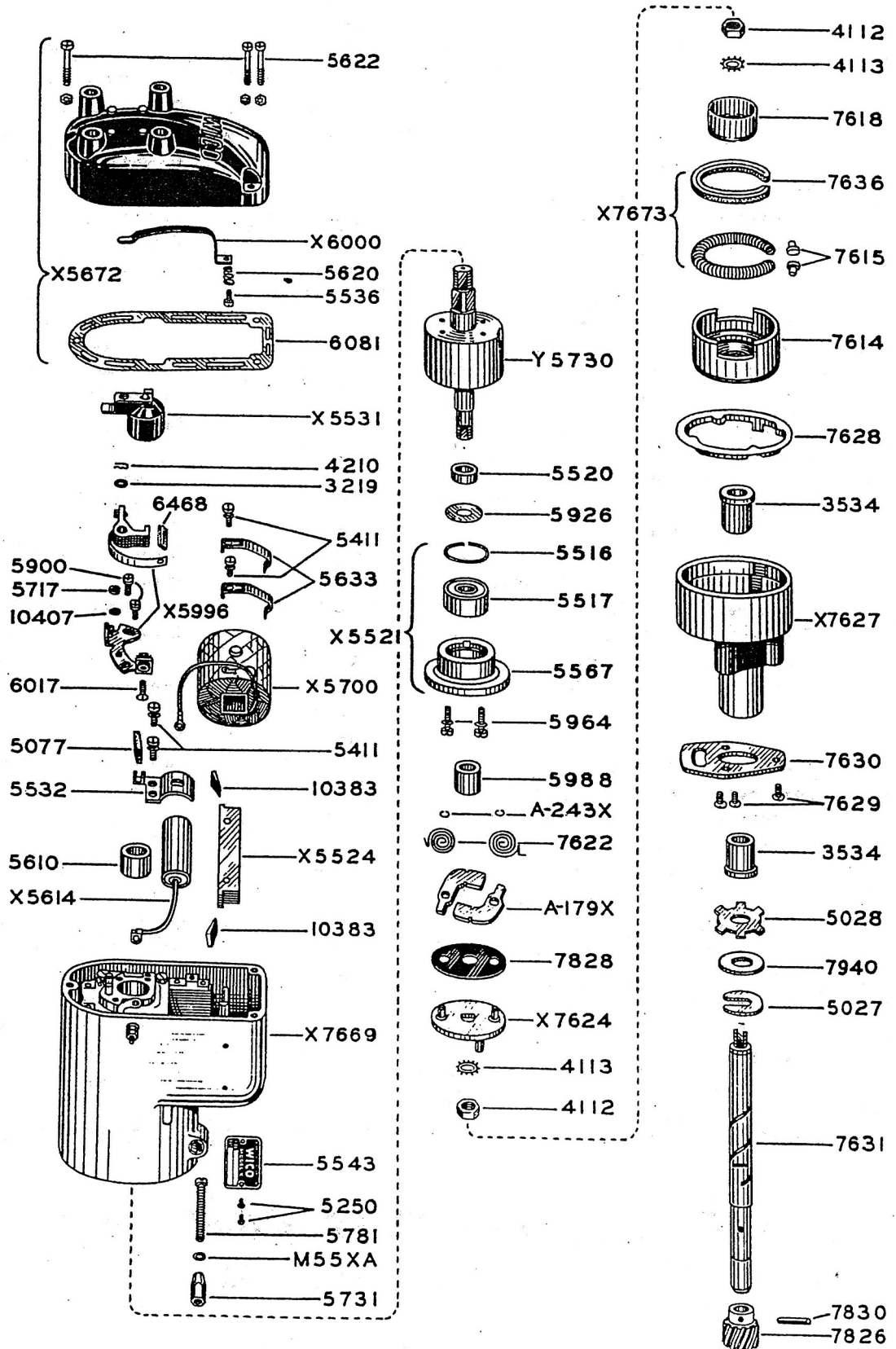
is made. The service station will be reimbursed upon receipt of the warranty service report by the factory.

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.

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

WICO ELECTRIC COMPANY

SPECIFICATION XV-2065 FOR FORD MODEL 120 FOUR CYLINDER POWER UNIT
CONCENTRIC TYPE IMPULSE



WICO MAGNETO SPECIFICATION XV-2065

COMPLETE SERVICE PARTS LIST

Part No.	No. Per Unit	Part Name	List Price	Part No.	No. Per Unit	Part Name	List Price
M-34X	2	Ground stud spacing washer (insulating)	\$.05	5620	1	Coil contact spring	.05
M-35X	1	Ground stud washer (insulating)	.05	5622	3	Distributor cap screw (Sems)	.05
M-55XA	1	End plate lock screw lock washer	.05	5633	2	Coil core clamp	.05
M-55XA	2	Ground stud lock washer	.05	5635	1	Ground connector	.05
A-179X	2	Trip arm	.35	X5654	1	Ground connection unit	.10
A-243X	2	Snap ring	.05	X5672	1	Distributor cap unit	3.30
IXA-256	1	Ground stud washer (steel)	.05	X5700	1	Coil group	5.90
3219	1	Breaker arm pivot washer	.05	5717	1	Breaker point aligning washer	.05
3230	2	Ground stud nut	.05	Y5730	1	Rotor	10.25
3534	2	End plate bushing	.30	5731	1	End plate lock	.15
3539	2	Ground stud insulating lock	.05	5781	1	End plate lock screw	.05
3945	1	Ground stud	.05	5900	2	Fixed contact clamp screw (Sems)	.05
4112	1	Drive cup clamp nut	.05	5926	1	Ball bearing shield	.05
4112	1	Driven flange clamp nut	.05	5964	2	Bearing cage clamp screw (Sems)	.05
4113	1	Drive cup clamp nut lock washer	.05	5988	1	Driven flange spacer	.10
4113	1	Driven flange clamp nut lock washer	.05	X5996	1	Breaker contact repl. group	1.75
4210	1	Breaker arm lock	.05	X6000	1	Secondary interlead group	.35
5027	1	Drive shaft thrust washer	.05	6017	1	Breaker spring clamp screw	.05
5028	1	Drive shaft thrust washer lock	.05	6081	1	Distributor cap gasket	.10
5077	1	Cam wiper felt	.05	6468	1	Breaker arm felt	.05
5250	2	Name plate screw	.05	7614	1	Drive cup	1.00
5411	2	Coil core clamp screw (Sems)	.05	7615	2	Impulse spring button	.15
5411	2	Condenser clamp screw (Sems)	.05	7618	1	Spring retainer cup	.25
5516	1	Rotor bearing retaining ring	.15	7622	2	Trip arm spring	.10
5517	1	Rotor bearing	2.35	X7624	1	Driven flange group	.90
5520	1	Bearing cage group spacer	.10	X7627	1	End plate group	7.95
X5521	1	Bearing cage group	3.50	7628	1	Impulse stop	1.50
X5524	1	Coil core group	.65	7629	3	Hold-down plate screw	.10
X5531	1	Distributor arm group	.80	7630	1	Hold-down plate	.75
5532	1	Condenser clamp	.10	7631	1	Drive shaft	3.15
5536	1	Coil contact screw	.05	7636	1	Impulse spring felt	.05
5543	1	Name plate	.10	X7669	1	Main housing repl. group	10.25
5567	1	Bearing cage	.90	X7673	1	Impulse spring group	1.15
5610	1	Breaker plate bushing	.30	7826	1	Drive gear	1.00
X5614	1	Condenser assembly	1.65	7828	1	Driven flange shield	.10
				7830	1	Drive gear pin	.10
				10383	as req.	Coil wedge	.05
				10407	1	Breaker point aligning washer (thin)	.05
					if nec.		

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WEST SPRINGFIELD, MASSACHUSETTS