

REPAIR PRICE LIST No. 9625A

Issued January 1, 1922, superseding all
previous repair parts and price lists on

Fairbanks-Morse

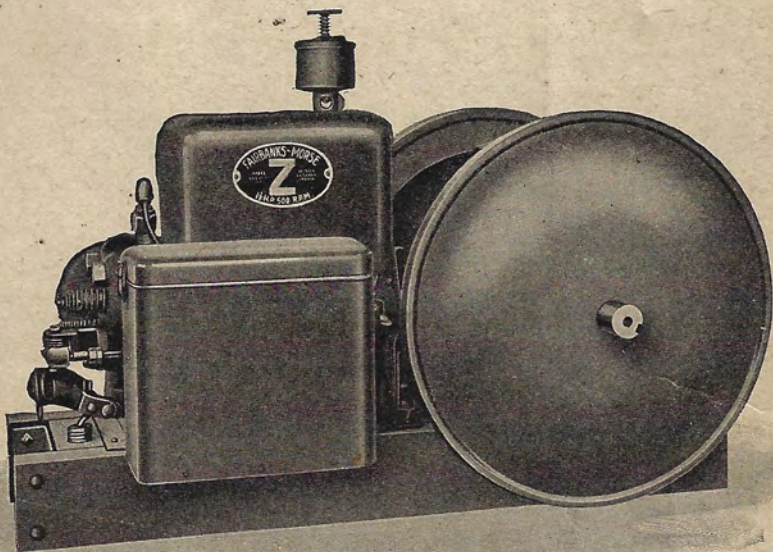
1½ H. P., 3 H. P., and 6 H. P.

"Z" Engines



FAIRBANKS, MORSE & CO.
(INCORPORATED)

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1 1/2 H. P. "Z" Gasoline Engine (Battery Equipt).

2803G

Illustrated Index for Fairbanks-Morse Repair Price Book

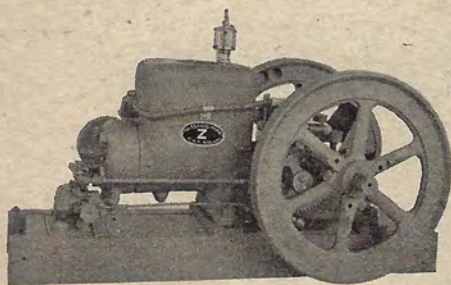
COVERING $1\frac{1}{2}$, 3 AND 6 H. P. "Z" ENGINES

1 H. P. "Z" GASOLINE ENGINE
BATTERY EQUIP

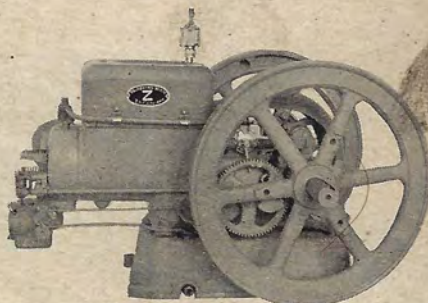
1, 3 and 6 H. P. "Z" EQUIP
WITH BOSCH MAGNETO.

1, 3 and 6 H. P. "Z" EQUIP
WITH SUMTER OSCILLATING
MAGNETO

1, 3 and 6 H. P. "Z" EQUIP
WITH SUMTER ROTARY
MAGNETO

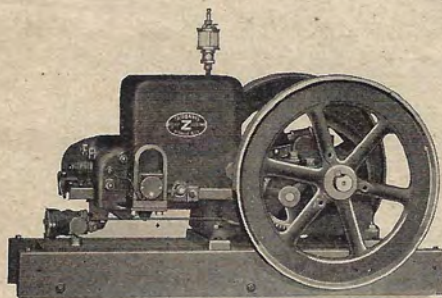


$1\frac{1}{2}$ H. P. TYPE "Z"

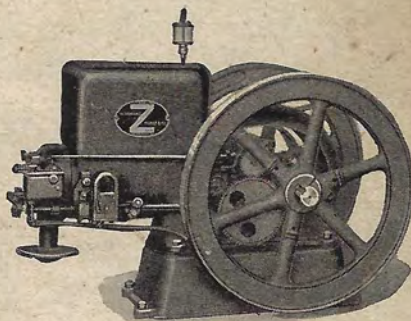


3 OR 6 H. P. TYPE "Z"

EQUIP WITH BOSCH MAGNETO

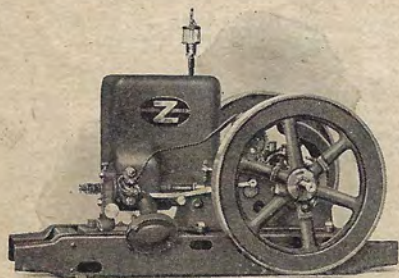


$1\frac{1}{2}$ H. P. TYPE "Z"

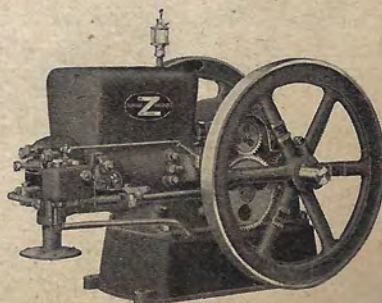


3 OR 6 H. P. TYPE "Z"

EQUIP WITH SUMTER OSCILLATING MAGNETO

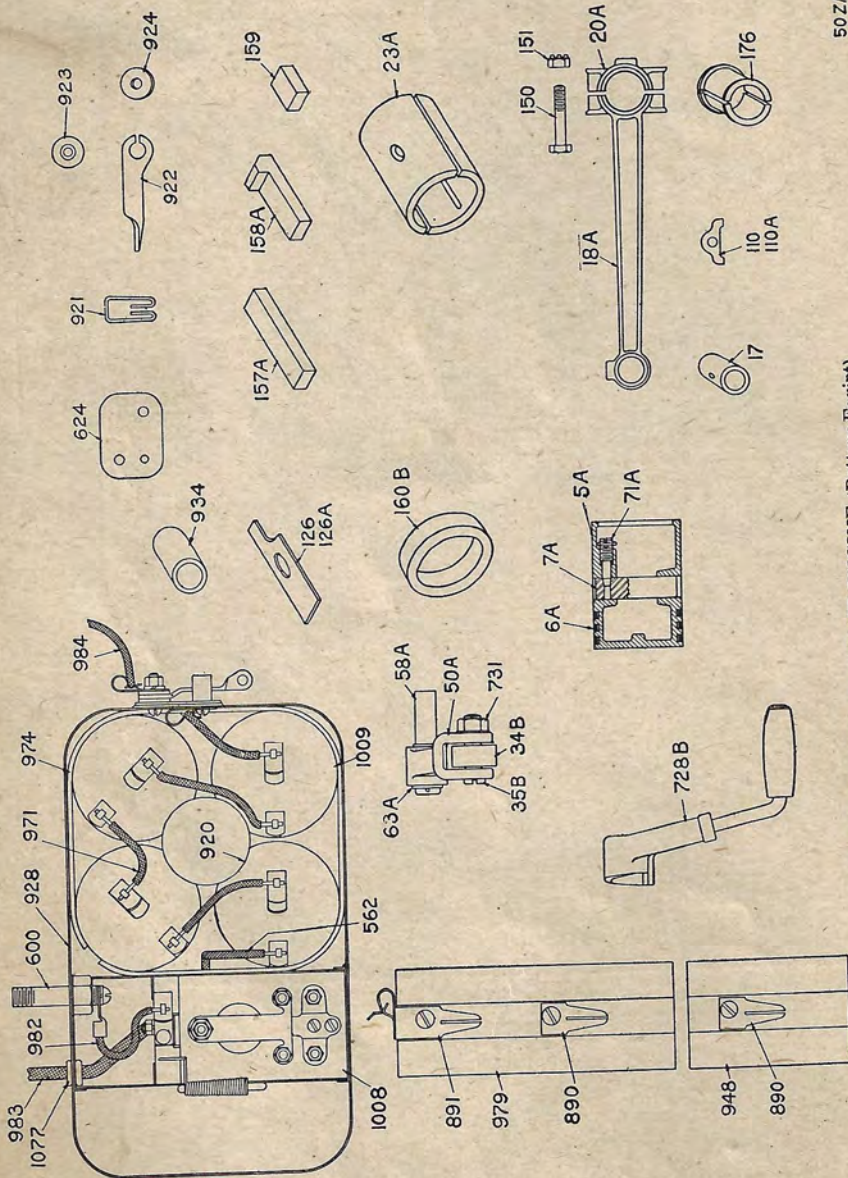


$1\frac{1}{2}$ H. P. TYPE "Z"



3 OR 6 H. P. TYPE "Z"

EQUIP WITH SUMTER ROTARY MAGNETO



50ZAN I

1½ H. P. Type "Z" GASOLINE ENGINE (Battery Equipt)

Repair Price List— $1\frac{1}{2}$ H. P., 3 H. P., 6 H. P. "Z" Engines

5
9625A

| Repair Numbers | | The Group Number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that Group. NAME OF PART | No. Used | Symbol | Price Each | |
|----------------------|-------------|---|----------|------------------------------------|------------|------|
| Arranged Numerically | Group Parts | | | | | |
| 1D-C | | 1D-C Cylinder and Base | | | 24.30 | |
| | 1D | Cylinder and base, always fitted with | 1 | ZAN1A | | |
| | 312 | Cylinder to head studs short | 3 | $\frac{1}{2}$ x 3-7/8 | | |
| | 313 | Cylinder to head stud long | 1 | $\frac{1}{2}$ x 4- $\frac{1}{4}$ | | |
| | 600 | Cylinder to battery box stud | 1 | ZAN600A | | |
| 1D | 12 | Main bearing caps | 2 | DJ12 | | |
| | | Main bearing hex head cap screws | 4 | $\frac{1}{2}$ x 1- $\frac{3}{4}$ | | |
| | | Main bearing lock washers | 4 | $\frac{1}{2}$ | | |
| | 126 | Main bearing shims thick | 4 | ZA126 | | |
| | 126A | Main bearing shims thin | 16 | ZA126A | | |
| | 195B | Name Plate | 1 | ZAA195 | | |
| | | Name plate R. H. M. screws | 2 | 10-24 x $\frac{1}{4}$ | | |
| | | Name plate washers | 2 | 2NPW | | |
| | 271A | Cylinder oiler pipe | 1 | $\frac{1}{2}$ x 5- $\frac{1}{4}$ " | | |
| | 23A | Main bearing liners (furnished in pairs only) | 2 Pr | ZA23 | .58 | |
| | | Cylinder to head C. P. S. F. hex nuts | 4 | $\frac{1}{2}$ | .04 | |
| | | Cylinder to battery box C. P. S. F. hex nut | 1 | 3/8 | .02 | |
| 3E-C | | 3E-C Cylinder Head | | | 6.50 | |
| | 3D | Cylinder head, always fitted with | 1 | ZAA3 | | |
| | 327A | Cylinder head drain plug | 1 | $\frac{1}{4}$ | | |
| | 9D-C | Suction valve, complete | 1 | | | .46 |
| | 10A-C | Exhaust valve, complete | 1 | | .53 | |
| 4D-C | | 4D-C Fuel Mixer Body | | | 2.85 | |
| | 4D | Fuel mixer body | 1 | ZAN4A | | |
| | | Fuel mixer body pin (1/8" x 7/16") | 1 | No. 202 | | |
| | 261A | Fuel mixer body cap | 1 | ZAN261A | | |
| | | Fuel mixer body cap F. H. M. screw | 1 | 10-24 x 2- $\frac{3}{4}$ | | |
| | | Fuel mixer body cap plate washer | 1 | 3/16 | | |
| | | Fuel mixer body cap lock washer | 1 | 3/16 | | |
| | | Fuel mixer body cap hex nut | 1 | 10-24 | | |
| | 197A-C | Fuel nozzle body | 1 | | | 1.25 |
| | 297 | Fuel nozzle body clamp | 1 | ZAA297 | | |
| | | Fuel nozzle body clamp R. H. M. screw | 1 | 14-20 x 1 | | |
| | | Fuel mixer to head cap screws | 2 | 3/8 x 3/4 | | .04 |
| 5A-C | | 5A-C Piston | | | 5.40 | |
| | 5A | Piston with ring stop pins | 1 | DJ5A | | |
| | 6A | Piston rings | 3 | DJ6B | | |
| | 7A | Piston pin | 1 | DJ7A2 | | |
| | 71A | Piston pin taper lock pin | 1 | ZAA71A | | |
| | | Piston pin taper lock pin cotter | 1 | 1/8 x 7/8 | | .06 |
| 9D-C | | 9D-C Suction Valve | | | .46 | |
| | 9B | Suction valve with | 1 | ZA409 | | |
| | | Suction valve cotter | 1 | 3 32 x 5/8 | | |
| | 310B | Suction valve spring | 1 | ZAN310A | .08 | |
| 10A-C | | 10A-C Exhaust Valve | | | .53 | |
| | 10A | Exhaust valve | 1 | ZA410 | | |
| | 11A | Exhaust valve spring collar | 1 | ZA11 | | |
| | | Exhaust valve spring collar lock | 1 | ZA122 | | |
| | 317 | Exhaust valve spring | 1 | No. 885 | | |
| | 12 | Main bearing cap | 2 | DJ12 | .46 | |
| | | Main bearing hex head cap screws | 4 | $\frac{3}{4}$ x 1- $\frac{3}{4}$ | .06 | |
| | | Main bearing lock washers | 4 | $\frac{1}{2}$ | .02 | |
| | 13D | Flywheel—with Group 25D-C | 2 | ZAN13A | | |
| 14B-C | | 14B-C Sub-Base | | | 3.25 | |
| | 14B | Sub-base half—Governor side—always fitted with | 1 | ZAN14A | | |
| | 14D | Sub-base half—opposite governor side | 1 | ZAN14B | | |
| | | Sub-base spacers | 2 | ZAN233A | | |
| | | Sub-base spacers to side carriage bolts | 8 | $\frac{1}{4}$ x 2 | | |
| | | Sub-base spacers to side square nuts | 8 | $\frac{1}{4}$ | 1.90 | |

1 1/2 and 6 H. P. "Z" EQUIP
WITH BOSCH MAGNETO.

1 1/2 and 6 H. P. "Z" EQUIP
WITH SUMNER OSCILLATING
MAGNETO.

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

| Repair Numbers | The Group Number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that Group. | NAME OF PART | No. Used | Symbol | Price Each |
|----------------|---|---|----------|--------------|------------|
| | | | 1 | | 1.35 |
| | 15D | Fuel tank, complete | 1 | | |
| | | Subbase to engine machine bolts | 4 | 3/8 x 4-3/4 | .06 |
| | | Subbase to engine hex C. P. S. F. nuts | 4 | | .04 |
| | | Subbase to engine lock washers | 4 | | .02 |
| | | Subbase to engine plate washers | 4 | | .02 |
| | | Subbase to battery box carriage bolts | 2 | 1/2 x 4-3/4 | .02 |
| | | Subbase to battery box square nuts | 2 | | .02 |
| | | Subbase to battery box lock washers | 2 | | .02 |
| | | Fuel tank—always fitted with | 1 | ZAN15A | |
| | | Fuel tank straps | 2 | ZAA104B | |
| | | Fuel tank filler cap | 1 | 16FM12A1 | 1.35 |
| | | Fuel tank drain fitting bushing | 1 | 1/2 x 1/8 | |
| | | Fuel tank drain fitting pipe plug | 1 | 1/8 | |
| | | Fuel tank drain pipe plug | 1 | 1/8 | .04 |
| | | Oil shield with clips | 1 | ZAA16 | .67 |
| | | Piston pin bushing | 1 | DJ17 | .46 |
| | | 18A-C Connecting Rod | 1 | | 5.50 |
| | | Connecting rod, always fitted with | 1 | ZAA18 | |
| | | Connecting rod cap | 1 | ZAA20 | 4.25 |
| | | Connecting rod piston pin bushing | 1 | DJ17 | |
| | | Connecting rod shims thick—Price per set | 4 | DJ110 | .04 |
| | | Connecting rod shims thin—Price per set | 16 | DJ110A | .08 |
| | | Connecting rod bolts | 2 | DJ150 | .17 |
| | | Connecting rod bolt cotters | 2 | 3/32 x 7/8 | |
| | | Connecting rod bolt castellated nuts | 2 | 1/2 S. A. E. | .06 |
| | | Connecting rod crank pin liners (in pairs only) | 1 Pr. | DJ176 | .68 |
| | | Connecting rod cap | 1 | ZAA20 | 1.14 |
| | | Main bearing liners (in pairs only) | 2 Pr. | ZA23 | .58 |
| | | Fuel suction tube (not furnished separately) | 1 | ZAN24A | |
| | | 25D-C Crankshaft | 1 | | 15.80 |
| | | Crankshaft, always fitted with | 1 | ZAN25A | |
| | | Crankshaft pinion | 1 | ZAA29A | |
| | | Crankshaft pinion key | 1 | No. 842 | |
| | | Crankshaft spacer collar | 1 | ZAN160A | 15.80 |
| | | Flywheels | 2 | ZAN13A | |
| | | Flywheel key—opposite governor side | 1 | T869 | |
| | | Flywheel key—governor side | 1 | TG8611 | |
| | | Exhaust silencer with nipple | 1 | ZA26 | .61 |
| | | 28E-C Cam Gear | 1 | | 3.20 |
| | | Cam gear | 1 | ZAA28D | 1.63 |
| | | Cam and cam shaft | 1 | ZAN128A | 1.52 |
| | | Cam shaft to gear woodruff key | 1 | No. 9 | .02 |
| | | Cam shaft to gear lock washer | 1 | 11FM1A17 | .02 |
| | | Cam shaft to gear R. H. M. screw | 1 | 14-20 x 3/8 | .02 |
| | | Cam shaft to gear lock washer | 1 | 11FM1A17 | .02 |
| | | Cam shaft to gear R. H. M. screw | 1 | 14-20 x 3/8 | .02 |
| | | Crankshaft pinion—with Group 25D-C | 1 | ZAA29A | |
| | | Governor drag spring | 1 | ZA33 | .10 |
| | | Exhaust roller | 1 | ZAA34 | .22 |
| | | Exhaust roller pin | 1 | ZAA35 | .12 |
| | | 36D-C Exhaust Rod | 1 | | .42 |
| | | Exhaust rod | 1 | ZAN36A | .19 |
| | | Exhaust rod end | 1 | ZAA55B | .19 |
| | | Exhaust rod end hex nut | 1 | 5/16 S.A.E. | .04 |
| | | 37E-C Cam Gear Bracket | 1 | | 19.20 |
| | | Cam gear bracket | 1 | ZAN37A | |
| | | Exhaust roller rocker fulcrum pin | 1 | ZAA58 | 6.65 |
| | | Exhaust roller rocker fulcrum pin washer | 1 | 15UK | |
| | | Exhaust roller rocker fulcrum pin cotter | 1 | 3/32 x 7/8 | |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

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9625A

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|----------------------|-------------|---|----------|-------------|------------|
| Arranged Numerically | Group Parts | | | | |
| | 50A-C | Exhaust roller rocker..... | 1 | | 1.92 |
| | 28E-C | Cam gear..... | 1 | | 3.20 |
| | 81D-C | Governor spindle..... | 1 | | 2.75 |
| | 441-C | Detent bracket..... | 1 | | 4.30 |
| | 397 | Detent bracket spacer..... | 1 | ZAN397A | .08 |
| | 810 | Detent bracket short screw..... | 1 | ZAN810A | .06 |
| | 811 | Detent bracket long screw..... | 1 | ZAN811A | .06 |
| | | Detent bracket lock washers (11FM1A5)..... | 2 | 5/16 | .02 |
| | 506 | Cam shaft grease cup..... | 1 | 14FM6A1 | .08 |
| | 507 | Governor grease cup..... | 1 | 14FM6A1 | .08 |
| 39B | | Exhaust valve rocker arm..... | 1 | ZAA39 | .72 |
| 40A-C | | 40A-C Exhaust Valve Rocker Fulcrum Pin | 1 | | .27 |
| 40A | 40A | Exhaust valve rocker fulcrum pin..... | 1 | ZAA40 | .23 |
| | | Exhaust valve rocker fulcrum pin hex nut..... | 1 | 3/8 Jam | .02 |
| | | Exhaust valve rocker fulcrum pin lock washer (11FM1A6)..... | 1 | 3/8 | .02 |
| 41B-C | | 41B-C Exhaust Valve Rocker Bracket | 1 | | 2.10 |
| 41B | 41B | Exhaust valve rocker bracket..... | 1 | ZAN41A | 1.01 |
| | 39B | Exhaust valve rocker..... | 1 | ZAA39 | .72 |
| | 40A-C | Exhaust valve rocker fulcrum pin..... | 1 | | .27 |
| | 620 | Exhaust valve rocker spring..... | 1 | ZAN620A1 | .08 |
| 42A-C | | 42A-C Detent Carrier | 1 | | 1.20 |
| 42A | 42A | Detent carrier, always fitted with..... | 1 | ZAN42A | .32 |
| | 398 | Speed regulator handle..... | 1 | ZAN398A | .04 |
| | 43A | Detent carrier pin..... | 1 | ZAN43A | .04 |
| | 522 | Detent lever with catch block..... | 1 | ZAN522A | .84 |
| 43A | | Detent carrier pins..... | 2 | ZAN43A | .04 |
| 44 | | Fuel tank filler opening cap..... | 1 | 16FM12A1 | .04 |
| 47A | | Fuel tank suction opening cap..... | 1 | ZAN47A | .04 |
| 48B | | Governor gear..... | 1 | ZAA48C | .84 |
| 50A-C | | 50A-C Exhaust Roller Rocker | 1 | | 1.92 |
| 50A | 50A | Exhaust roller rocker..... | 1 | ZAA50 | 1.52 |
| | 34B | Exhaust roller..... | 1 | ZAA34 | .22 |
| | 35B | Exhaust roller pin..... | 1 | ZAA35 | .12 |
| | 731 | Exhaust roller pin nut..... | 1 | ZA731 | .06 |
| 55A | | Exhaust rod end cap with body..... | 1 | ZAA55B | .19 |
| | | Exhaust rod end nut..... | 1 | 5/16 S.A.E. | .04 |
| 58A | | Exhaust roller rocker fulcrum pin with cotter..... | 1 | ZAA58 | .19 |
| | | Exhaust roller rocker fulcrum pin cotter..... | 1 | 3/32 x 7/8 | .02 |
| 63A | | Exhaust roller rocker fulcrum pin washer..... | 1 | 15UK | .02 |
| 71A | | Piston pin taper lock pin with cotter..... | 1 | ZAA71A | .06 |
| | | Piston pin taper lock pin cotter..... | 1 | 1/8 x 7/8 | .02 |
| 79B | | Governor weight pins..... | 2 | No. 319 | .02 |
| 80B | | Governor sleeve pin and Head..... | 1 | ZAA86A | .38 |

1½, 3 and 6 H. P. "Z" EQUIPT WITH BOSCH MAGNETO.

1½, 3 and 6 H. P. "Z" EQUIPT WITH BOSCH MAGNETO.

MAGNETO

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

| Repair Numbers | | The Group Number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that Group. NAME OF PART | No. Used | Symbol | Price Each |
|----------------------|-------------|---|----------|------------|------------|
| Arranged Numerically | Group Parts | | | | |
| 81B-C | | 81B-C Governor Head | 1 | | 1.35 |
| 81B | 81B | Governor head | 1 | ZAA81A1 | .84 |
| 82A | 82A | Governor weight with ball | 1 | ZAA82 | .19 |
| 82B | 82B | Governor weight, plain | 1 | ZAA82A | .19 |
| | 79B | Governor weight pins | 2 | No. 319 | .02 |
| | 33B | Governor weight friction spring | 1 | ZA33 | .10 |
| 81D-C | | 81D-C Governor Complete | | | 2.75 |
| | 80B | Governor sleeve pin and head | 1 | ZAA86A | .38 |
| | 81B-C | Governor head | | | 1.35 |
| | 308B | Governor weight spring | 1 | ZAN308A | .08 |
| | 156A | Governor weight spring adjusting screw | 1 | ZA156 | .08 |
| | 48B | Governor gear | 1 | ZAA48C | .84 |
| 89 | | Fuel check valve body with strainer | 1 | ZA89 | .29 |
| 90A | | Fuel check valve ball | 1 | 16FM18A1 | .02 |
| 91 | | Fuel check valve strainer. (Not furnished separately) | 1 | ZA91 | |
| 95 | | Fuel check valve nut. (Not furnished separately) | 1 | ZA95 | |
| 110 | | Connecting rod shims—thick. Price per set | 4 | DJ110 | .04 |
| 110A | | Connecting rod shims—thin. Price per set | 16 | DJ110A | .08 |
| 117B | 117B | Pulley, always fitted with | 1 | ZAN117A | |
| | | Pulley key | 1 | No. 868 | 1.52 |
| | | Pulley headless set screw | 1 | 3/8 x ½ | |
| 122 | | Exhaust valve spring collar lock | 1 | ZA122 | .02 |
| 123 | | Cam shaft to gear woodruff key | 1 | No. 9 | .02 |
| 126 | | Main bearing shims—thick. Price per set | 4 | ZA126 | .04 |
| 126A | | Main bearing shims—thin. Price per set | 16 | ZA126A | .06 |
| 128D | | Cam and shaft | 1 | ZAN128A | 1.52 |
| 150 | | Connecting rod bolt with cotter | 2 | DJ150 | .17 |
| 151 | | Connecting rod bolt castellated nut | 2 | ½ S. A. E. | .06 |
| 156A | | Governor spring adjusting screw | 1 | ZA156 | .08 |
| 157A | | Flywheel key—opposite governor side | 1 | T869 | .08 |
| 158A | | Flywheel key—governor side | 1 | TG8611 | .12 |
| 159 | | Crankshaft pinion key | 1 | No. 842 | .02 |
| 160B | | Crankshaft spacer collar—with Group 25D-C | 1 | ZAN160A | |
| 176 | | Connecting rod crank pin liners (In pairs only) | 1 Pr. | DJ176 | .68 |
| 190B | | Cylinder head gasket | 1 | ZAA190 | .38 |
| 192 | | Fuel mixer to head gasket | 1 | ZA192 | .02 |
| 195B | | Name plate | 1 | ZAA195 | .11 |
| | | Name plate R. H. M. screws | 2 | 10-24 x ¼" | .02 |
| | | Name plate washers | 2 | 2NPW | .02 |
| 197A-C | | 197A-C Fuel Nozzle Body | 1 | | 1.25 |
| 197A | 197A | Fuel nozzle body—always fitted with | 1 | ZAN197A | |
| | 24B | Fuel suction tube | 1 | ZAN24A | |
| | 95 | Fuel check valve nut | 1 | ZA95 | .92 |
| | 47A | Fuel suction opening cap | 1 | ZAN47A | |
| | 366 | Fuel suction opening cap gasket | 1 | ZAN366A | |
| | 263 | Fuel nozzle tip | 1 | ZAN263A | |
| | 89 | Fuel check valve body with strainer 91 | 1 | ZA89 | .29 |
| | 90A | Fuel check valve ball | 1 | 16FM18A1 | .02 |
| 233B | | Subbase spacer | 2 | ZAN233A | .12 |
| | | Subbase spacer to side carriage bolts | 2 | ¼ x 2 | .02 |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

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9625A

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|----------------------|-------------|---|----------|-------------|------------|
| Arranged Numerically | Group Parts | | | | |
| 261A | | Fuel mixer cap | 1 | ZAN261A | .22 |
| | | Fuel mixer cap to body F. H. machine screw | 1 | 10-24 x 2½ | .02 |
| | | Fuel mixer cap plate washer | 1 | 3/16 | .02 |
| | | Fuel mixer cap lock washer | 1 | 3/16 | .02 |
| | | Fuel mixer cap hex nut | 1 | 10-24 | .02 |
| 263 | | Fuel nozzle tip | 1 | ZAN263A | .20 |
| 271A | | Cylinder oiler pipe | 1 | ½ x 5-½ | .10 |
| 297 | | Fuel nozzle body clamp | 1 | ZAA297 | .02 |
| | | Fuel nozzle body clamp R. H. M. screw | 1 | 14-20 x 1 | .02 |
| 308B | | Governor weight spring | 1 | ZAN308A | .08 |
| 310B | | Suction valve spring | 1 | ZAN310A | .08 |
| 312 | | Cylinder head studs—short | 3 | ½ x 3-7/8 | .08 |
| 313 | | Cylinder head stud—long | 1 | ½ x 4-½ | .08 |
| 317 | | Exhaust valve spring | 1 | No. 885 | .10 |
| 327A | | Cylinder head drain plug | 1 | ¼ | .04 |
| 355 | | Exhaust rod end nut | 1 | 5/16 S.A.E. | .04 |
| 366 | | Fuel suction opening cap gasket. (Not furnished separately) | 1 | ZAN366A | |
| 397 | | Detent bracket spacer | 1 | ZAN397A | .08 |
| 398 | | Speed regulator handle. (Not furnished separately) | 1 | ZAN398A | |
| 399 | | Detent spring post | 1 | ZAN399A | .04 |
| 441-C | | 441-C Detent Bracket | | | 4 30 |
| 441 | 441 | Detent bracket, always fitted with | 1 | ZAN441A | 1 55 |
| | 399 | Detent spring post | 1 | ZAN399A | |
| | 42A-C | Detent carrier | 1 | | 1 20 |
| | 647A | Detent spring | 1 | ZAN647A | .10 |
| | 803 | Detent | 1 | ZAN803A1 | .72 |
| | 768 | Timer plate shim | 2 | ZAN768A | .02 |
| | 765 | Timer plate insulator | 1 | ZAN765A | .06 |
| | 764 | Timer plate | 1 | ZAN764A | .22 |
| | 766 | Timer bushing | 2 | ZAN766A | .04 |
| | 767 | Timer plate washer | 2 | ZAN767A | .04 |
| | 769 | Timer plate cover | 1 | ZAN769A | .15 |
| | | Timer plate R. H. M. screws | 2 | 14-20 x ¾ | .02 |
| | | Timer plate lock washers | 2 | ½ | .02 |
| | 1110 | Timer cover plate washer | 2 | ZAN1110A | .02 |
| 505 | | Main bearing grease cup | 2 | 14FM6A3 | .15 |
| 506 | | Cam shaft grease cup | 1 | 14FM6A1 | .08 |
| 507 | | Governor grease cup | 1 | 14FM6A1 | .08 |
| 509A | | Connecting rod grease cup | 1 | 14FM7A4 | .23 |
| | | Connecting rod grease cup street ell. | 1 | ½ | .04 |
| 522 | | Detent lever, always fitted with | 1 | ZAN522A | .84 |
| | 523 | Detent catch block | 1 | ZAN523A | |
| 527A | | Cylinder oiler | 1 | | .95 |
| 562 | | Coil to battery wire with one terminal | 1 | ZAN562A | .12 |
| 600 | | Battery box stud | 1 | ZAN600A | .16 |
| 620 | | Exhaust valve rocker spring | 1 | ZAN620A1 | .08 |
| 624 | | Switch insulator plate | 2 | ZAN624A | .06 |
| 647A | | Detent spring | 1 | ZAN647A | .10 |
| 728B | | Starter crank | 1 | ZAN728A | .80 |
| 731 | | Exhaust roller pin nut | 1 | ZA731 | .06 |
| 735A | | Spark plug hood | 1 | ZAN735A | .16 |
| 736A | | Spark plug nut | 1 | 18FM11A1 | .04 |
| 764 | | Timer plate | 1 | ZAN764A | .22 |
| 765 | | Timer plate insulator | 1 | ZAN765A | .06 |
| 766 | | Timer plate bushings | 2 | ZAN766A | .04 |
| 767 | | Timer plate washers | 2 | ZAN767A | .04 |

1½, 3 and 6 H. P. "Z" EQUIP
WITH BOSCH MAGNETO.

EQUIP WITH BOSCH MAGNETO
WITH BUMPER ORILLAPURO
MAGNETO

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

| Repair Numbers | | The Group Number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that Group. NAME OF PART | No. Used | Symbol | Price Each |
|----------------------|-------------|---|----------|-------------|------------|
| Arranged Numerically | Group Parts | | | | |
| 768 | | Timer plate shim, thick | 2 | ZAN768A | .02 |
| 768A | | Timer plate shim, thin | 1 | ZAN768B | .02 |
| 769 | | Timer plate cover with connector | 1 | ZAN769A | .15 |
| | | Timer plate R. H. M. screws | 2 | 14-20 x ¾ | .02 |
| | | Timer plate lock washers | 2 | ½ | .02 |
| 803 | | Detent always fitted with timer contact | 1 | ZAN803A1 | .72 |
| 810 | | Detent bracket screw—short | 1 | ZAN810A | .06 |
| 811 | | Detent bracket screw—long | 1 | ZAN811A | .06 |
| | | Detent bracket lock washers | 2 | 5/16 | .02 |
| 890 | | Coil high tension contact | 1 | ZAN890A | .02 |
| 890 | | Coil low tension contact | 1 | ZAN890A | .02 |
| 891 | | Coil ground contact with connector | 1 | ZAN891A | .04 |
| 920 | | Battery cell spacer | 1 | ZAN920A1 | .08 |
| 921-C | | 921-C Switch | | | |
| 921 | 921 | Switch socket | 1 | ZAN921A | .65 |
| 922 | 922 | Switch blade | 1 | ZAN922A | .19 |
| 923 | 923 | Switch shoulder washer | 1 | ZAN923A | .10 |
| 924 | 924 | Switch plain washer | 1 | ZAN924A | .06 |
| | | Switch clip connector | 1 | 18FM6A1 | .02 |
| | | Switch R. H. M. screw—short | 1 | 10-24 x ½ | .02 |
| | | Switch R. H. M. screw—long | 1 | 10-24 x 5/8 | .02 |
| | | Switch lock washers | 2 | No. 10 | .02 |
| | | Switch nuts | 2 | 10-24 | .02 |
| | 624 | Switch insulator plate | 2 | ZAN624A | .06 |
| 928-C | | 928-C Battery Box | | | 9.50 |
| | 928 | Battery box—always fitted with | 1 | ZAN928A1 | 3.25 |
| | | Battery box cover | 1 | ZAN929A | |
| | | Battery box hinge | 1 | ZAN931A | |
| | | Battery box catch | 1 | 16FM8A1 | |
| 928 | 974 | Battery box to cell lining | 1 | ZAN974A | 2.65 |
| | 983 | High tension wire with terminals and ferrule 1077 | 1 | ZAN983A | |
| | | Coil holder with coil hold down spring | | | |
| | 948 | Coil holder bottom with contact | 1 | ZAN948B | |
| | 979 | Coil holder back with contacts | 1 | ZAN979B | |
| | 1008 | Vibrating coil | 1 | 18FM2A1 | |
| | 1009 | Battery cell | 4 | 18FM7A1 | |
| | 971 | Battery cell wire connectors | 4 | ZAN971A | |
| | 982 | Ground wire with one terminal | 1 | ZAN982A | |
| | 562 | Coil to battery wire with one terminal | 1 | ZAN562A | |
| | 920 | Battery cell spacer | 1 | ZAN920A1 | .08 |
| | 921-C | Switch complete | 1 | | .65 |
| | 984 | Switch to timer wire | 1 | ZAN984A | .04 |
| 934 | | Battery box spacer | 1 | ZAN934A | .12 |
| 948 | 948 | Coil holder bottom—always fitted with | 1 | ZAN948B | .12 |
| | 890 | Low tension contact | 1 | ZAN890A | |
| | | Low tension contact R. H. M. screw | 1 | 10-24 x 5/8 | |
| | | Low tension contact lock washer | 1 | No. 10 | |
| | | Low tension contact nut | 1 | 10-24 | .04 |
| 971 | | Battery cell connectors | 4 | ZAN971A | |
| 974 | | Battery box to cell lining | 1 | ZAN974A | .08 |
| 979 | 979 | Coil holder back—always fitted with | 1 | ZAN979B | .30 |
| | 890 | High tension contact | 1 | ZAN890A | |
| | 891 | Ground contact with one connector | 1 | ZAN891A | |
| | | Contact R. H. M. screws | 2 | 10-24 x 5/8 | |
| | | Contact lock washers | 2 | No. 10 | |
| | | Contact nuts | 2 | 10-24 | |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

11
9625A

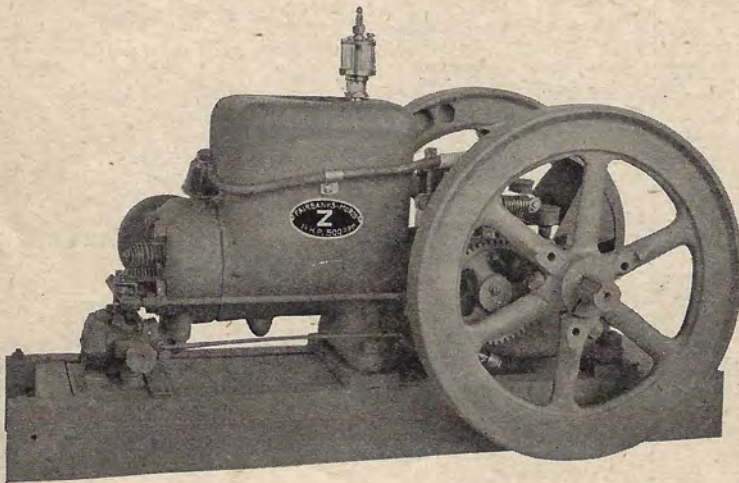
| Repair Numbers | | The Group Number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that Group. NAME OF PART | No. Used | Symbol | Price Each |
|----------------------|-------------|---|----------|-------------|------------|
| Arranged Numerically | Group Parts | | | | |
| | | Contact R. H. M. screws..... | 3 | 10-24 x 5/8 | .02 |
| | | Contact lock washers..... | 3 | No.10 | .02 |
| | | Contact nuts..... | 3 | 10-24 | .02 |
| 982 | | Ground wire with terminal..... | 1 | ZAN982A | .12 |
| | | Ground wire R. H. M. screw..... | 1 | 10-24 x 3/8 | .02 |
| | | Ground wire lock washer..... | 1 | No. 10 | .02 |
| 983 | | High tension wire with two terminals and ferrule 1077..... | 1 | ZAN983A | .30 |
| 984 | | Switch to timer wire..... | 1 | ZAN984A | .04 |
| 1008 | | Vibrating coil..... | 1 | 18FM2A1 | 2.65 |
| 1009 | | Battery cell..... | 4 | 18FM7A1 | .60 |
| 1110 | | Timer cover plate washer..... | 2 | ZAN1110A | .02 |
| 1077 | | Battery box ferrule (not furnished separately) | 1 | 18FM10A1 | |
| 1395 | | Cam gear bracket screws..... | 2 | ZBA1395 | .06 |
| | | Cam gear bracket lock washers..... | 2 | ½ | .02 |
| 748B-C | | 748B-C Complete Set of Springs | 1 | | .44 |
| | 308B | Governor weight spring..... | 1 | ZAN308A | .08 |
| | 310B | Suction valve spring..... | 1 | ZAN310A | .08 |
| | 317 | Exhaust valve spring..... | 1 | No. 885 | .10 |
| | 620 | Exhaust valve rocker spring..... | 1 | ZAN620A | .08 |
| | 647 A | Detent spring..... | 1 | ZAN647A | .10 |
| 749D-C | | 749D-C Complete Set of Gaskets | | | .40 |
| | 190B | Cylinder head gasket..... | 1 | ZAA190 | .38 |
| | 192 | Fuel mixer to head gasket..... | 1 | ZA192 | .02 |

1½, 3 and 6 H. P. "Z" EQUIP
WITH BOSCH MAGNETO.

1½, 3 and 6 H. P. "Z" EQUIP
WITH SUMNER BOYDEN
MAGNETO.

FAIRBANKS-MORSE

1½ H. P. "Z" ENGINE WITH BOSCH MAGNETO



(3776G)

This shows the 1½ H. P. throttling governor "Z" engine, with Bosch magneto. (First engine of this type and size was No. 394368.)

On this type of engine it will be noted that the Bosch magneto is located on a bracket attached to the engine base near the crankshaft. The magneto is operated by means of a pin in the large gear coming in contact with the lever on the magneto.

Below will be found a brief description of the changes, made in this engine, affecting repairs.

Cam Gear Bracket. Effective on Engine No. 463610.

The cam gear bracket was changed so as to use a clamp and two studs, instead of four cap screws, to hold magneto in place. (See Group 37B-C, page 27, for old style bracket.)

Cam Gear Bracket. Effective on Engine No. 506972.

The cam gear bracket complete with cam gear and governor was changed on account of the spiral gears, there was no change in the cam gear bracket only. (See group 37C-C, page 28, for cam gear Bracket complete for engines from No. 463610 to 506971 inclusive).

Cam Gear. Effective on Engine No. 463610.

The cam gear and shaft were changed to increase length of bearing. (See Group 28B, page 25, for cam gear with short bearing.)

Cam Gear. Effective on Engine No. 491702.

The construction of this detail was changed to make the cam and cam shaft in one piece and to attach the gear with a woodruff key. The new gear complete with cam and shaft will be sent to replace the cam gear which was effective on Engine No. 463610.

Cam Gear. Effective on Engine No. 506972.

The cam gear was changed from spur teeth to spiral teeth. (See Group 28D-C, page 26, for cam gear for engines from No. 463610 to 506971, inclusive).

Crankshaft. Effective on Engine No. 463610.

A thrust collar 13/16" thick was placed between the crankshaft pinion and bearing to allow use of cam gear with long bearing. See Group 25B, page 24, for crankshaft with thin thrust washers.

Crankshaft Pinion. Effective on Engine No. 506972.

The crankshaft pinion was changed from spur teeth to spiral teeth. (See 29A, page 26, for pinion for engines previous to No. 506972).

Governor. Effective on Engine No. 506972.

The construction of the governor was changed, to use a spiral gear at the same time the spindle was made integral with the gear, and the head which carries the weights was threaded to the spindle. (See Group 81A-C, page 31 for Governor previous to Engine No. 506972).

Governor Pull Rod. Effective on Engine No. 463610.

The governor pull rod was lengthened to accommodate cam gear bracket change effective on same engine. (For shorter governor pull rod, see Group 205A-C, page 36.)

Governor Pull Rod. Effective on Engine No. 506972.

The adjustment on the governor pull rod was changed from the butterfly valve end to the governor end. The new rod complete as shown by parts number 205A and 405A, page 36, will be sent for repairs.

Magneto Trip Lever. Effective on Engine No. 463610.

The magneto was lowered to allow the use of a short magneto trip lever. (See repair number 64962, page 41, for long trip lever.)

Magneto Trip Pin. Previous to Engine No. 451893.

This pin was screwed in the gear and for repairs will be furnished with a roller. (See Group 337A, page 38).

Magneto Trip Pin. Used from Engine No. 451893 to 463610.

This pin was driven in the gear and for repairs will be furnished with a roller. (See Group 337B, page 38).

Magneto Trip Pin. Effective on Engine No. 463610.

This trip pin is driven in the gear and is 3/64" longer than the previous pins. (See Group 337C, page 39).

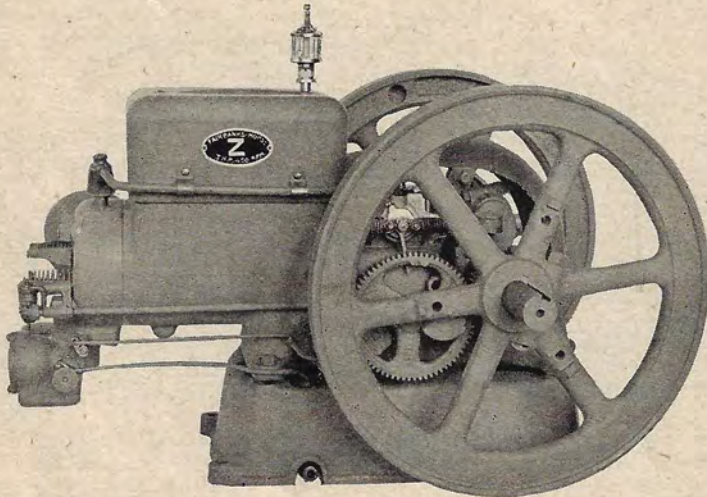
1 1/2 and 3 H. P. "Z" EQUIPT
WITH BOSCH MAGNETO.

1 1/2 and 3 H. P. "Z" EQUIPT
WITH SUMNER OSCILLATING
MAGNETO

1 1/2 and 3 H. P. "Z" EQUIPT
WITH SUMNER ROTARY
MAGNETO.

FAIRBANKS-MORSE

3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO



(3780G)

This shows the 3 and 6 H. P. engines with Bosch magneto. The first 3 H. P. engine of this type is No. 393880 and the first 6 H. P. is No. 392388.

On this type of engine it will be noted that the Bosch magneto is located on a bracket attached to the engine base near the crankshaft. The magneto is operated by means of a pin in the large gear coming in contact with the trip lever on the magneto.

Below will be found a brief description of the changes made in these engines affecting repairs.

Cam Gear Bracket. Effective on 3 H. P. Engine No. 489408.
Effective on 6 H. P. Engine No. 488381.

The cam gear bracket was changed so as to use a clamp and two studs, instead of four cap screws, for holding the magneto in place. For repairs the new bracket will be furnished.

See Group 37C-C, page 28, for bracket complete.

See Group 37D, page 28, for bracket only.

Cam Gear Bracket. Effective on 3 H. P. Engine No. 506674.
Effective on 6 H. P. Engine No. 506872.

The cam gear bracket complete with cam gear and governor was changed on account of the spiral gears, there was no change in the cam gear bracket only. (See Group 37C-C, page 28, for cam gear bracket complete for 3 H. P. engines from No. 489408 to 506673, inclusive, and 6 H. P. engines from No. 488381 to 506871, inclusive).

Cam Gear. Effective on 3 H. P. Engine No. 492154.

Effective on 6 H. P. Engine No. 492528.

The construction of this detail was changed to make the cam and cam shaft in one piece and to attach the gear with a woodruff key. The new gear complete with cam and shaft will be sent to replace old style.

Cam Gear. Effective on 3 H. P. Engine No. 506674.

Effective on 6 H. P. Engine No. 506872.

The cam gear was changed from spur teeth to spiral teeth. (See Group 28D-C, page 26, for cam gear for 3 H. P. engines from No. 492154 to 506673, inclusive, and 6 H. P. engines from No. 492528 to 506971, inclusive).

Crankshaft Pinion. Effective on 3 H. P. Engine No. 506674.

Effective on 6 H. P. Engine No. 506872.

The crankshaft pinion was changed from spur teeth to spiral teeth. (See 29A, page 26, for pinion for 3 H. P. engines previous to No. 506674 and 6 H. P. engine No. 506872).

Governor. Effective on 3 H. P. Engine No. 506674.

Effective on 6 H. P. Engine No. 506872.

The construction of the governor was changed to use a spiral gear at the same time the spindle was made integral with the gear, and the head which carries the weights was threaded to the spindle. (See Group 81A-C, page 31, for Governor previous to 3 H. P. engine No. 506674 and 6 H. P. Engine No. 506872.

Governor Pull Rod. Effective on 3 H. P. Engine No. 506674.

Effective on 6 H. P. Engine No. 506872.

The adjustment on the governor pull rod was changed from the butterfly valve end to the governor end. The new rod complete as shown by parts Number 205A, page 36, and 405A, page 36, will be sent for repairs.

3 and 6 H. P. "Z" Engines, with Bosch E

WITH BUTTERFLY VALVE
MAGNETO

REPAIR PARTS LIST

FOR

1½, 3 AND 6 H. P. "Z" ENGINES

WITH

BOSCH MAGNETO

When ordering parts for repairs always give the description as given in this list by the repair number, symbol (if shown) and name of part wanted; also, the size, type and number of engine. Too much care cannot be taken in giving these particulars.

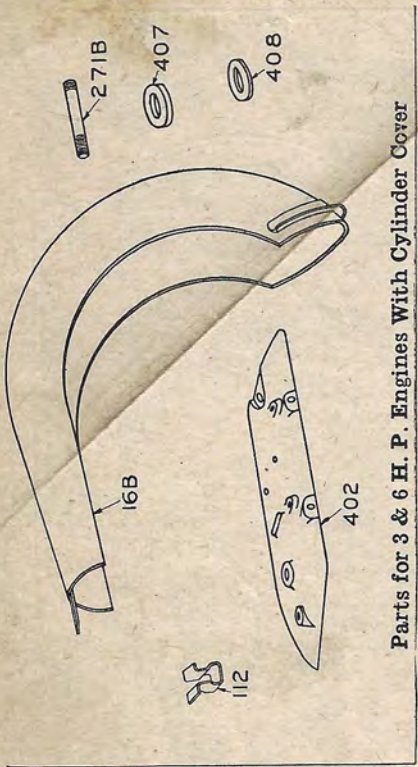
For example: If a set of piston rings is wanted for 6 H. P. engine No. 395962, the order should read: "Three No. 6A piston rings, Symbol ZCA6, for 6 H. P. type "Z" engine No. 395962."

When ordering a group complete, use the repair number in heavy type, but for individual parts the repair number and symbol may be used. Before ordering a complete group of parts by the repair number in heavy type at the head of a group carefully check over such group to make sure that all parts included therein are wanted as they will be furnished unless otherwise specified.

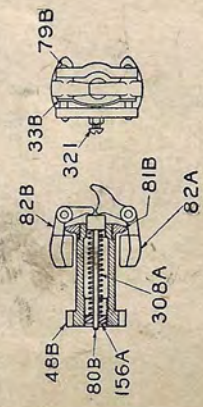
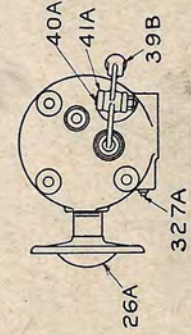
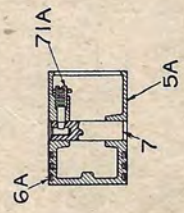
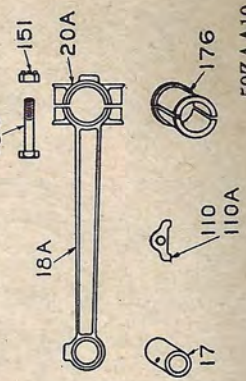
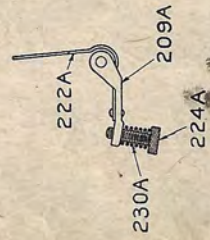
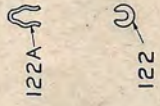
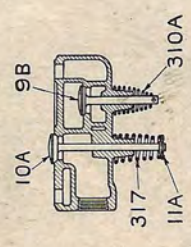
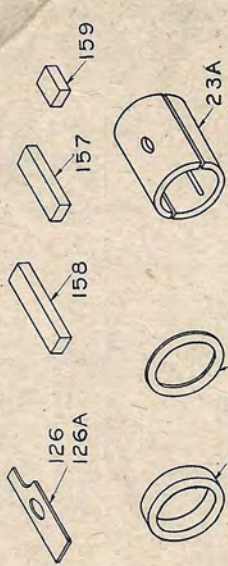
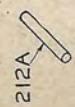
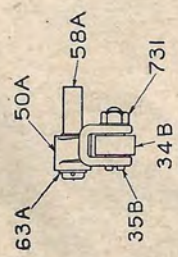
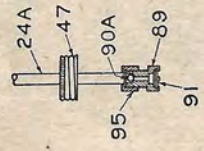
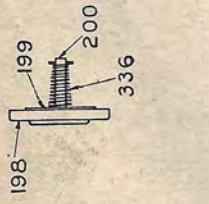
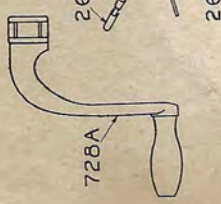
For example: If in the 3D-C group, it is found that everything except the suction valve complete, repair No. 9B-C is wanted, instead of ordering the balance of the parts separately, order 3D-C less 9B-C.

The group headings are arranged in numerical order. To determine repair numbers and names of parts wanted, and whether they can be ordered by group number, find the repair number of the parts on the repair chart and then, by referring to the list, determine the name of the parts and whether they can be ordered by group number.

An asterisk (*) preceding a repair number or group number indicates that the part so marked is included in the "Z" engine Service Cabinet.



Parts for 3 & 6 H. P. Engines With Cylinder Cover



1½, 3 and 6 H. P. "Z" Engines, Bosch Equipt

50ZAA10

Repair Price List—1 $\frac{1}{2}$ H. P., 3 H. P., 6 H. P. "Z" Engines

1 $\frac{1}{2}$, 3 AND 6 H. P. "Z" ENGINES, WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1 $\frac{1}{2}$ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|---|-------------|-----------------------|---------------------------------|-------------|----------|---------------------------------|-------------|----------|---------------------------------|-------------|----------|--------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | | | |
| 1B-C | 1B | 1 | ZAI | 24.30 | 1 | ZBAI | 42.00 | 1 | ZCAI | 65.00 | | | |
| | 312 | 1 | $\frac{3}{8}$ x 3 $\frac{1}{2}$ | | 1 | $\frac{3}{8}$ x 4 $\frac{1}{2}$ | | 1 | $\frac{3}{8}$ x 5 $\frac{1}{2}$ | | | | |
| | 313 | 3 | $\frac{3}{8}$ x 4 $\frac{1}{2}$ | | 3 | $\frac{3}{8}$ x 4 $\frac{1}{2}$ | | 3 | $\frac{3}{8}$ x 5 $\frac{1}{2}$ | | | | |
| | 12 | 1 | DJ12 | | 1 | ZBI2 | | 1 | ZCI2 | | | | |
| | | 2 | $\frac{3}{8}$ x 1 $\frac{1}{2}$ | | 2 | $\frac{3}{8}$ x 1 $\frac{1}{2}$ | | 2 | $\frac{3}{8}$ x 2 $\frac{1}{2}$ | | | | |
| | | 4 | $\frac{3}{8}$ x 1 $\frac{1}{2}$ | | 4 | $\frac{3}{8}$ x 1 $\frac{1}{2}$ | | 4 | $\frac{3}{8}$ x 2 $\frac{1}{2}$ | | | | |
| | 126 | 4 | ZAI26 | 23.15 | 4 | ZBI26 | 34.15 | 4 | ZCI26 | 52.90 | | | |
| | 126A | 4 | ZAI26A | | 4 | ZBI26A | | 4 | ZCI26A | | | | |
| | 195B | 16 | ZAA195 | | 12 | | | 12 | | | | | |
| | | 2 | | | 2 | | | 2 | | | | | |
| | 271A | 2 | 2NPW | | 1 | $\frac{1}{2}$ x 7 $\frac{1}{2}$ | | 1 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | | | | |
| | | 1 | $\frac{1}{2}$ x 5 $\frac{1}{2}$ | | 1 | | | 1 | | | | | |
| | 502 | 1 | | | 1 | ZBA2 | 4.90 | 1 | ZC2 | 7.75 | | | |
| | | 4 | | | 4 | $\frac{3}{8}$ x 1 $\frac{1}{2}$ | .06 | 6 | $\frac{3}{8}$ x 1 $\frac{1}{2}$ | .06 | | | |
| | | 4 | | | 4 | | | 6 | | .02 | | | |
| | 191 | 4 | | | 4 | ZBA191 | .02 | 6 | ZC191 | .02 | | | |
| | 751 | 1 | | | 1 | ZBA751 | .04 | 1 | ZC751 | .04 | | | |
| | 23A | 2Pr. | ZA23 | .58 | 2Pr. | ZB23 | .08 | 2Pr. | ZC23 | .08 | | | |
| | | 4 | $\frac{1}{2}$ | .04 | 4 | | .06 | 4 | | .06 | | | |
| 3D-C | 3D | 1 | ZAA3 | 6.50 | 1 | ZBA3 | 9.60 | 1 | ZCA3 | 12.00 | | | |
| | 327A | 1 | | 5.50 | 1 | | 7.90 | 1 | | 10.00 | | | |
| | 9B-C | 1 | 9B-C | .46 | 1 | 9B-C | .97 | 1 | 9B-C | 1.06 | | | |
| | 10A-C | 1 | 10A-C | .53 | 1 | 10A-C | .74 | 1 | 10A-C | .91 | | | |
| 4B-C | 4B | | | | 1 | ZBA4A | 9.00 | 1 | ZCA4A | 9.10 | | | |
| | 331A | | | | 1 | | | 1 | | | | | |
| | 124 | | | | 1 | ZBA124 | 5.35 | 1 | ZCA124 | 5.35 | | | |
| | 197S | | | | 1 | ZBA197A | | 1 | ZCA197 | | | | |
| 1B-C Cylinder and Base | | | | | | | | | | | | | |
| Cylinder and Base, always fitted with | | | | | | | | | | | | | |
| Cylinder to Head Studs Short. | | | | | | | | | | | | | |
| Cylinder to Head Studs Long. | | | | | | | | | | | | | |
| Main Bearing Caps. | | | | | | | | | | | | | |
| Main Bearing Hex Head Cap Screws. | | | | | | | | | | | | | |
| Main Bearing Lock Washers. | | | | | | | | | | | | | |
| Main Bearing Shims Thick. | | | | | | | | | | | | | |
| Main Bearing Shims Thin. | | | | | | | | | | | | | |
| Name Plate | | | | | | | | | | | | | |
| Name Plate Screws | | | | | | | | | | | | | |
| Name Plate Screw Nuts. | | | | | | | | | | | | | |
| Name Plate Washers. | | | | | | | | | | | | | |
| Cylinder Oiler Pipe. | | | | | | | | | | | | | |
| Base Drain Plug. | | | | | | | | | | | | | |
| Hopper with Name Plate and Screws. | | | | | | | | | | | | | |
| Hopper to Cylinder Carriage Bolts. | | | | | | | | | | | | | |
| Hopper to Cylinder Square Nuts. | | | | | | | | | | | | | |
| Hopper to Cylinder Plate Washers. | | | | | | | | | | | | | |
| Hopper to Cylinder Gasket. | | | | | | | | | | | | | |
| Hopper Baffle Plate. | | | | | | | | | | | | | |
| Main Bearing Liners (Furnished in Pairs Only) | | | | | | | | | | | | | |
| Cylinder to Head C. P. S. F. Nuts. | | | | | | | | | | | | | |
| 3D-C Cylinder Head | | | | | | | | | | | | | |
| Cylinder Head. | | | | | | | | | | | | | |
| Cylinder Head Drain Plug. | | | | | | | | | | | | | |
| Suction Valve Complete. | | | | | | | | | | | | | |
| Exhaust Valve Complete. | | | | | | | | | | | | | |
| 4B-C Reservoir 3 and 6 H. P. | | | | | | | | | | | | | |
| Reservoir always fitted with. | | | | | | | | | | | | | |
| Reservoir Drain Plug. | | | | | | | | | | | | | |
| Starting Fuel Tube. | | | | | | | | | | | | | |
| Starting Throttle Valve Seat. | | | | | | | | | | | | | |

FOR SALE BY THE ROYAL CANADIAN MOUNTED POLICE WITH SUMMER OSCILLATING MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|---|--|----------|--------|-------------|----------|-------------|-------------|----------|-------------|-------------|
| | Group Parts | NAME OF PART | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 376A | | Starting Fuel Throttle Valve..... | | | | | ZBA376 | .11 | | ZBA376 | .11 |
| 311A | | Starting Fuel Throttle Valve Spring..... | | | | | #784 | .06 | | #784 | .06 |
| 60B | | Reservoir Cover..... | | | | | ZBA60 | .06 | | ZBA60 | .06 |
| 314A | | Reservoir Cover Stove Bolt..... | | | | | #923 | .04 | | #923 | .04 |
| | | Reservoir Cover Stove Bolt Nut..... | | | | | 1/16 x 1 | .02 | | 1/16 x 1 | .02 |
| | | Reservoir Cover Stove Bolt..... | | | | | 1/8 | .02 | | 1/8 | .02 |
| 197-C | | Fuel Throttle Valve Seat Complete..... | | | | | 197-C | 1.52 | | 197-C | 1.52 |
| 297 | | Fuel Throttle Valve Seat Clamp..... | | | | | ZBA297 | .02 | | ZBA297 | .02 |
| | | Fuel Throttle Valve Seat Clamp Screws..... | | | | | 14-20 x 1 | .02 | | 14-20 x 1 | .02 |
| 198-C | | Air Valve Seat Complete..... | | | | | 198-C | .57 | | 198-C | .57 |
| 247 | | Air Valve Seat R. H. M. Screws..... | | | | | ZBA247 | .02 | | ZBA247 | .02 |
| | | Air Valve Seat Lock Washers..... | | | | | 1 | .02 | | 1 | .02 |
| | | Butterfly Valve Complete..... | | | | | 1 | .02 | | 1 | .02 |
| 203B-C | | Reservoir to Head Cap Screw Short..... | | | | | 203B-C | 1.14 | | 203B-C | 1.14 |
| | | Reservoir to Head Cap Screw Long..... | | | | | 3/8 x 1 1/4 | .04 | | 3/8 x 1 1/4 | .04 |
| | | Reservoir to Head Lock Washers..... | | | | | 2 | .02 | | 2 | .02 |
| 4C-C | | 4C-C Reservoir 1½ H. P. | | | | | | | | | |
| 4C | | Reservoir always fitted with..... | | | | | | | | | |
| | | Reservoir Drain Plug..... | | | | | ZAAA4A | 5.40 | | | |
| 124 | | Starting Fuel Tube..... | | | | | 1/8 | | | | |
| 197S | | Starting Throttle Valve Seat..... | | | | | ZAA124 | | | | |
| 60B | | Reservoir Cover..... | | | | | ZAA197 | 3.45 | | | |
| 335A | | Reservoir Cover Pin..... | | | | | ZAA60 | | | | |
| 376A | | Starting Fuel Throttle Valve..... | | | | | #320 | | | | |
| 311A | | Fuel Throttle Valve Spring..... | | | | | ZAA376A | .10 | | | |
| 197-C | | Fuel Throttle Valve Seat..... | | | | | #888 | .04 | | | |
| 297 | | Fuel Throttle Valve Seat Clamp..... | | | | | 197-C | 1.19 | | | |
| | | Fuel Throttle Valve Seat Clamp R.H.M. Screw..... | | | | | ZAA297 | .02 | | | |
| | | Air Valve Seat Complete..... | | | | | 3/8 x 1 | .48 | | | |
| 198-C | | Air Valve Seat Gasket..... | | | | | ZAA247 | .02 | | | |
| 247 | | Air Valve Seat R. H. M. Screws..... | | | | | 10-24 x 1/2 | .02 | | | |
| | | Air Valve Seat Lock Washers..... | | | | | 1 1/8 | .02 | | | |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

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9625A

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | | |
|-------------------------------------|-------------|---|----------|----------------|-------------|----------|--------|-------------|----------|--------|-------------|--|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| | | Reservoir to Valve Casing R. H. M. Screws.. | 2 | 14-20 x ¾ ¼ | .02 | | | | | | | |
| | | Reservoir to Valve Casing Lock Washer..... | 2 | | .02 | | | | | | | |
| 5A-C | 5A | 5A-C Piston..... | 1 | DJ5A | 5.40 | | | 7.30 | | | 11.60 | |
| | 5A | Piston with Ring Stop Pins..... | 1 | DJ6B | 3.75 | | | 5.20 | | | 7.80 | |
| | 6A | Piston Rings..... | 3 | DJ7A2 | .36 | | | .42 | | | .89 | |
| | 7 | Piston Pin..... | 1 | ZAA71A | .53 | | | .76 | | | 1.06 | |
| | 71A | Piston Pin Taper Lock Pin with..... | 1 | ¾ x ¾ | .06 | | | .06 | | | .06 | |
| | | Piston Pin Taper Lock Pin Cotter..... | 1 | | | | | | | | | |
| 9B-C | *9B | 9B-C Suction Valve..... | 1 | ZAA409 | .46 | | | .97 | | | 1.06 | |
| 9B | *9B | Suction Valve with..... | 1 | ¾ x ¾ | .38 | | | | | | | |
| | 120 | Suction Valve Cotter..... | | | | | | | | | | |
| | 121 | Suction Valve..... | | | | | | | | | | |
| | 122A | Suction Valve Friction Spring..... | | | | | | .55 | ZBA409 | | .65 | |
| | 310A | Suction Valve Spring Collar..... | | | | | | .25 | ZB120 | | .25 | |
| | | Suction Valve Spring Collar Lock..... | | | | | | .08 | ZB121 | | .08 | |
| | | Suction Valve Spring..... | 1 | #884 | .08 | | | .02 | ZBA122A | | .02 | |
| | | | | | | | | .08 | #929 | | .08 | |
| 10A-C | *10A | 10A-C Exhaust Valve..... | 1 | ZAA10 | .53 | | | .74 | | | .91 | |
| | *11A | Exhaust Valve..... | 1 | ZAA10 | .40 | | | .57 | ZBA410 | | .68 | |
| | 122 | Exhaust Valve Spring Collar..... | 1 | ZAA11 | .04 | | | .04 | ZB11 | | .04 | |
| | 317 | Exhaust Valve Spring Collar Lock..... | 1 | ZAA12 | .02 | | | .02 | ZBA122 | | .02 | |
| | | Exhaust Valve Spring..... | 1 | #885 | .10 | | | .11 | #759A | | .15 | |
| 12 | | Main Bearing Cap..... | 2 | DJ12 | .46 | | | .65 | ZC12 | | 1.14 | |
| | | Main Bearing Hex Head Cap Screws..... | 4 | ½ x 1 ¾ | .06 | | | .06 | ¼ x 2 ¼ | | .11 | |
| | | Main Bearing Lock Washers..... | 4 | ½ | .02 | | | .02 | | | .02 | |
| 13B | | Flywheel, always fitted with..... | 2 | ZAI3 | 6.10 | | | | ZCA13 | | 21.00 | |
| | | Flywheel Clamp Bolt and nut..... | 2 | ½ x 4 | | | | | ¾ x 6 ¾ | | | |

WITH BOSCH MAGNETO
 WITH SUMTER OSCILLATING
 MAGNETO

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|-------------------------------------|-------------|---|----------|----------------|-------------|----------|----------------|-------------|----------|----------------|-------------|----------|----------------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 18A-C 18A | 110A | NAME OF PART | 16 | DJ110A | .08 | 16 | ZB110A | .08 | 16 | ZC110A | .08 | 16 | ZC110A | .08 |
| | 150 | | 2 | DJ150 | .17 | 2 | ZB150 | .19 | 2 | ZC150 | .29 | 2 | ZC150 | .29 |
| | 151 | | 2 | 3/32 x 5/8 SAE | .06 | 2 | 3/32 x 5/8 SAE | .06 | 2 | 3/32 x 5/8 SAE | .11 | 2 | 3/32 x 5/8 SAE | .11 |
| | 176 | | 1 Pr | DJ176 | .68 | 1 Pr | ZB176 | 1.03 | 1 Pr | ZC176A | 1.90 | 1 Pr | ZC176A | 1.90 |
| 20A 23A 24A | | Connecting Rod Cap | 1 | ZAA20 | 1.14 | 1 | ZB20 | 1.41 | 1 | ZC20 | 1.90 | 1 | ZC20 | 1.90 |
| | | Main Bearing Liners (Furnished in pairs only). | 2 Pr | ZA23 | .58 | 2 Pr | ZB23 | 1.26 | 2 Pr | ZC23 | 1.90 | 2 Pr | ZC23 | 1.90 |
| | | Fuel Suction Tube (Not furnished separately) | 1 | ZA24 | ..... | 1 | ZBA24 | ..... | 1 | ZCA24 | ..... | 1 | ZCA24 | ..... |
| 25B | | 25B Crankshaft. Used on..... | 1 | ..... | 7.25 | 1 | ..... | 12.70 | 1 | ..... | 18.00 | 1 | ..... | 18.00 |
| | | 1½ H. P. Engines Previous to #463610 | | | | | | | | | | | | |
| | | 3 H. P. Engines Previous to #506674 | | | | | | | | | | | | |
| | | 6 H. P. Engines Previous to #506872 | | | | | | | | | | | | |
| | | Fitted with Pinion having Cut Spur Teeth. | | | | | | | | | | | | |
| | | Crankshaft always fitted with..... | | | | | | | | | | | | |
| 25B 25C | 25B | Crankshaft Pinion..... | 1 | ZAA25 | ..... | 1 | ZBA25 | ..... | 1 | ZCA25 | ..... | 1 | ZCA25 | ..... |
| | 29A | Crankshaft Pinion Key..... | 1 | ZA29 | ..... | 1 | ZBA29 | ..... | 1 | ZCA29 | ..... | 1 | ZCA29 | ..... |
| | 159 | Crankshaft End Thrust Washer..... | 1 | #842 | 7.25 | 1 | #872 | 12.70 | 1 | #1072 | 18.00 | 1 | #1072 | 18.00 |
| | 160 | Crankshaft End Thrust Washer..... | 2 | DJ160 | ..... | 2 | DJ160 | ..... | 2 | DJ160 | ..... | 2 | DJ160 | ..... |
| 25C | 25C | 25C Crankshaft..... | 1 | ..... | 7.25 | 1 | ..... | 7.25 | 1 | ..... | 18.00 | 1 | ..... | 18.00 |
| | | Effective on 1½ H. P. engines from #463610 to #506971, inclusive. This shaft is fitted with one thrust collar 1/16" thick between crankshaft pinion and main bearing, and has pinion with Spur Teeth. | | | | | | | | | | | | |
| | | Crankshaft always fitted with..... | | | | | | | | | | | | |
| | | Crankshaft Pinion..... | 1 | ZAA25 | ..... | 1 | ZBA25 | ..... | 1 | ZCA25 | ..... | 1 | ZCA25 | ..... |
| 25C | 29A | Crankshaft Pinion Key..... | 1 | ZA29 | ..... | 1 | ZBA29 | ..... | 1 | ZCA29 | ..... | 1 | ZCA29 | ..... |
| | 159 | Crankshaft End Thrust Washer..... | 1 | #842 | 7.25 | 1 | #842 | 7.25 | 1 | #842 | 7.25 | 1 | #842 | 7.25 |
| | 160A | Crankshaft End Thrust Collar..... | 1 | ZAA160 | | 1 | ZAA160 | | 1 | ZAA160 | | 1 | ZAA160 | |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

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9625A

1½, 3 AND 6 H. P. "Z" ENGINES, WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | | | | |
|-------------------------------------|---------------------------|---|---------------------------------|---|-------------|------------------|-------------------------|-------------|-------------|--------------------------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 25E | | 25E Crankshaft, Effective on 1½ H. P. Engine #506972 3 H. P. Engine #506674 6 H. P. Engine #506872 Fitted with Spiral Pinion. Crankshaft always fitted with. Crankshaft Pinion. Crankshaft Pinion Key. Crankshaft End Thrust Collar. | 1 | | 7.60 | 1 | | 13.20 | 1 | | 18.50 |
| | 25B 29B 159 160A | | 1 1 1 1 | ZAA25 ZAA29A #842 ZAA160 | 7.60 | 1 1 1 1 | ZBA25 ZBA29B #872 | 13.20 | 1 1 1 | ZCA25 ZCA29B #1072 | 18.50 |
| 26A | | Exhaust Silencer. | 1 | ZA26 | .61 | 1 | ZB26 | .72 | 1 | ZC26A | 1.03 |
| 28B | | *28B Cam Gear. Cam Gear—used previous to 1½ H. P. engine #463610 had a short cam shaft and measured 1½" face of cam to face of gear. | 1 | | | | | | | | |
| | 28B 128A 128A | Cam Gear always fitted with. Cam Shaft. Cam to Gear Woodruff Key. Cam to Gear Hex Head Cap Screw. Cam to Gear Lock Washer. Magnet Trip Pin. Magnet Trip Pin Roller. | 1 1 1 1 1 1 1 | ZAA28 ZAA128C #9 14-20 x ½ ¼ ZAA337B ZAA344 | 3.34 | | | | | | |
| 28B | 337B 344 | | 1 1 | | 3.34 | | | | | | |
| 28-C | | Cam Gear—Used on 1½ H. P. engines from No. 463610 to No. 491702. Cam Gear used on 3 and 6 H. P. engines previous to 3 H. P. No. 492154, 6 H. P. No. 492528 On this type of cam gear the gear was fastened to the cam shaft by means of a screw key, and neither part was furnished without the other. | 1 | | | | | | | | |
| 28B-C | | | | | | | | | 1 | | |

1½ AND 6 H. P. "Z" ENGINES WITH SUMMER OSCILLATING MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES, WITH BOSCH MAGNETO.

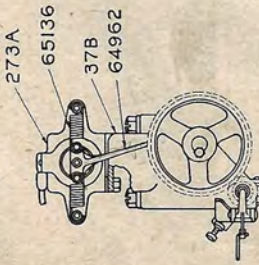
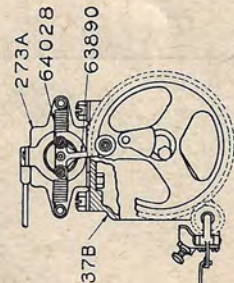
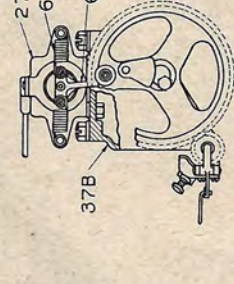
| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | | | | |
|-------------------------------------|----------------------------|---|----------|----------------|-------------|----------|---------|-------------|----------|---------|-------------|----------|---------|-------------|---|--------|------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | | |
| | | NAME OF PART | | | | | | | | | | | | | | | |
| | | On Repair Orders, 28D-C will be furnished in place of 28C. 28D-C will be furnished in place of 28B-C. 28D-C less 337-C and 339-C will be furnished in place of 28B for 3 and 6 H. P. | | | | | | | | | | | | | | | |
| 28D-C | | *28D-C Cam Gear, used on: 1½ H. P. engines #491702 to #506971, inclusive. 3 H. P. engines #492154 to #506673, inclusive. 6 H. P. engines #492528 to #506871, inclusive. | 1 | | 3.34 | 1 | | | | | | 1 | | | | | 6.28 |
| 28D | 28D 337C 128B 123 | Cam Gear, always fitted with: Magnetto Trip Pin..... Cam and Shaft..... Cam Shaft to Gear Woodruff Key..... Cam Shaft to Gear R. H. M. Screw..... Cam Shaft to Gear Lock Washer..... Magnetto Trip Pin..... Early and Late Device..... | 1 | ZAA28A 337C | 1.86 | 1 | ZBA28B | 2.70 | 1 | ZBA128B | 2.00 | 1 | ZBA128B | 2.00 | 1 | ZBA28B | 2.70 |
| | | Note —This Gear, 28D-C, furnished for repairs in place of 28B-C for 3 and 6 H. P. and in place of 28C for 1½ H. P. | | | | | | | | | | | | | | | |
| 28F-C | | 28F-C Cam Gear, Effective on: 1½ H. P. engine #506972. 3 H. P. engine #506674. 6 H. P. engine #506872. | 1 | | 3.34 | 1 | | | | | | 1 | | | | | 6.28 |

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | | | |
|-------------------------------------|----------------------------|--|----------------------------|--|--|--|---|--|---|---|--|---|---|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | |
| 28F | 28F 337C 128B 123 | Cam Gear always fitted with. Magnet Trip Pin. Cam and Shaft. Cam Shaft to Gear Woodruff Key. Cam Shaft to Gear R. H. M. Screw. Cam Shaft to Gear Lock Washer. Magnet Trip Pin. Early and Late Device. | 1 1 1 1 1 1 | {ZAA28C 337C ZAA128B #9 14-20x3/8 1/4 | 1.86 1.43 .02 .02 .02 | 1 1 #9 14-20x3/8 1/4 337-C 339-C | 2.70 2.00 .02 .02 .02 38 1.14 | 1 1 #9 14-20x3/8 1/4 337-C 339 C | ZBA28D ZBA128B #9 14-20x3/8 1/4 337-C 339 C | 2.70 2.00 .02 .02 .02 38 1.14 | 1 1 #9 14-20x3/8 1/4 337-C 339 C | ZBA28D ZBA128B #9 14-20x3/8 1/4 337-C 339 C | 2.70 2.00 .02 .02 .02 38 1.14 |
| *29A | 337-C 339-C | Cranksaft Pinion, used previous to. 1½ H. P. engine #506972. 3 H. P. engine #506674. 6 H. P. engine #506872. | 1 | ZA29 | .72 | 1 | ZBA29 | 1.03 | ZCA29 | 1.03 | 1 | ZCA29 | 1.03 |
| 29B | | Cranksaft Pinion, effective on. 1½ H. P. engine #506972. 3 H. P. engine #506674. 6 H. P. engine #506872. | 1 | ZAA29A | 1.10 | 1 | ZBA29B | 1.60 | ZCA29B | 1.60 | 1 | ZCA29B | 1.60 |
| 30B | | Cam Shaft not furnished separately. | 1 | ZA30 | ..... | 1 | ZBA30 | ..... | ZBA30 | ..... | 1 | ZBA30 | ..... |
| 30C | | Governor Drag Spring. | 1 | ZAA30A | ..... | 1 | ZBA30 | ..... | ZBA30 | ..... | 1 | ZBA30 | ..... |
| *33B | | Exhaust Roller. | 1 | ZA33 | .10 | 1 | ZBA33 | .10 | ZA33 | .10 | 1 | ZA33 | .10 |
| 34B | | Exhaust Roller Pin. | 1 | ZAA34 | .22 | 1 | ZBA34 | .26 | ZBA34 | .26 | 1 | ZBA34 | .26 |
| 35B | | Exhaust Roller Pin. | 1 | ZAA35 | .12 | 1 | ZBA35 | .14 | ZBA35 | .14 | 1 | ZBA35 | .14 |
| 36B-C | 36B 55A 355 | 36B-C Exhaust Rod. Exhaust Rod. Exhaust Rod End. Exhaust Rod End Hex Nut. | 1 1 1 1 | {ZAA36 ZAA35 1/8 SAE | .42 .19 .19 .04 | 1 1 1 1 | ZBA36 ZBA55 3/8 SAE | .62 .29 .29 .04 | ZCA36 ZBA55 3/8 SAE | .62 .29 .29 .04 | 1 1 1 1 | ZCA36 ZBA55 3/8 SAE | .65 .32 .29 .04 |
| 37B-C | | 37B-C Cam Gear Bracket. Previous to 1½ H. P. Engine #463610. Previous to 3 H. P. Engine #489408. Previous to 6 H. P. Engine #488381. | 1 | | 17.00 | 1 | | 21.10 | | 21.10 | 1 | | 21.10 |

1 1/2, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES, WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|-------------|---|----------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| | |  | | | | | | | | | |
| | |  | | | | | | | | | |
| | |  | | | | | | | | | |
| | | <p>½ H.P.</p> <p>Cam Gear Bracket, always fitted with.....</p> <p>Exhaust Roller Rocker Pin.....</p> <p>Exhaust Roller Rocker Pin Washer.....</p> <p>Exhaust Roller Rocker Pin Cotter.....</p> <p>Exhaust Roller Rocker.....</p> <p>Cam Gear.....</p> <p>Cam Gear.....</p> <p>Governor Lever Bracket.....</p> <p>Governor Spindle.....</p> <p>On order for 37B-C for 3 and 6 H. P. 37C-C will be furnished—On orders for 37B for 3 and 6 H. P.—37D will be furnished.</p> | | | | | | | | | |
| 37B | | | 1 | ZAA37 | 6.65 | 1 | ZBA37A | 7.60 | 1 | ZBA37A | 7.60 |
| 58A | | | 1 | ZAA58 | 2.10 | 1 | ZAA58 | 2.10 | 1 | ZAA58 | 2.10 |
| 63A | | | 1 | 15UK | 6.18 | 1 | 15UK | 6.18 | 1 | 15UK | 6.18 |
| | | | 1 | 3/8 x 1/4 | 1.86 | 1 | 3/8 x 1/4 | 1.86 | 1 | 3/8 x 1/4 | 1.86 |
| 50A-C | | | 1 | 50A-C | 3.34 | 1 | 50A-C | 3.34 | 1 | 50A-C | 3.34 |
| 28B | | | 1 | 28B | 17.90 | 1 | 28B-C | 17.90 | 1 | 28B-C | 17.90 |
| 28B-C | | | 1 | 93A-C | | 1 | 93A-C | | 1 | 93A-C | |
| 93A-C | | | 1 | 81A-C | | 1 | 81A-C | | 1 | 81A-C | |
| 81A-C | | | 1 | | | 1 | | | 1 | | |
| 37C-C | | <p>37C-C Cam Gear Bracket, used on.....</p> <p>1½ H. P. Engine #463610 to #506971, inclusive.</p> <p>3 H. P. Engine #489408 to #506673, inclusive.</p> <p>6 H. P. Engine #488381 to #506871, inclusive.</p> | 1 | | 22.10 | 1 | | 22.10 | 1 | | 22.10 |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

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9625A

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | | |
|-------------------------------------|---|----------|--|------------|----------|--------------|------------|----------|--------------|------------|----------|--------------|------------|---------|
| | | No. Used | Symbol | Price Each | No. Used | Symbol | Price Each | No. Used | Symbol | Price Each | No. Used | Symbol | Price Each | |
| 37C | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAMD OF PARTS | 37C | ZAA37A | 6.65 | 1 | ZBA37B | 7.60 | 1 | ZBA37B | 7.60 | 1 | ZBA37B | 7.60 | |
| | | 58A | ZAA58 | 1.92 | 1 | ZAA58 | 2.10 | 1 | ZAA58 | 2.10 | 1 | ZAA58 | 2.10 | |
| | | 63A | 15UK | 3.34 | 1 | 15UK | 6.28 | 1 | 15UK | 6.28 | 1 | 15UK | 6.28 | |
| | | | 3/32 x 5/8 | 3.30 | 1 | 3/32 x 5/8 | 3.35 | 1 | 3/32 x 5/8 | 3.35 | 1 | 3/32 x 5/8 | 3.35 | |
| | | | | .08 | 1 | #000 x 1/4" | .08 | 1 | #000 x 1/4" | .08 | 1 | #000 x 1/4" | .08 | |
| | | 50A-C | | .08 | 1 | #000 x 5/8 | .08 | 1 | #000 x 5/8 | .08 | 1 | #000 x 5/8 | .08 | |
| | | 28D-C | | .29 | 1 | ZAA139 | .29 | 1 | ZAA139 | .29 | 1 | ZAA139 | .29 | |
| | | 93B-C | | .15 | 2 | ZAA301 | .15 | 2 | ZAA301 | .15 | 2 | ZAA301 | .15 | |
| | | 81A-C | | .02 | 2 | 5/16 | .02 | 2 | 5/16 | .02 | 2 | 5/16 | .02 | |
| | | 507 | | .02 | 2 | 1/4-20 x 5/8 | .02 | 2 | 1/4-20 x 5/8 | .02 | 2 | 1/4-20 x 5/8 | .02 | |
| | | 506 | | .02 | 2 | 1/4 | .02 | 2 | 1/4 | .02 | 2 | 1/4 | .02 | |
| | | 139A | | .02 | 2 | | .02 | 2 | | .02 | 2 | | .02 | |
| | | 301A | | .02 | 2 | | .02 | 2 | | .02 | 2 | | .02 | |
| | | | | | | | | | | | | | | |
| | | 37D | Cam Gear Bracket to replace 37B Cam Gear Bracket on 3 and 6 H. P. Engines. Cam Gear Bracket always fitted with. Exhaust Roller Rocker Pin. Magnetto Clamp. Magnetto Clamp Stud. Magnetto Clamp Stud Nuts. Magnetto Clamp Lock Washers. Magnetto Dowels. | 37C | | | 1 | | 8.30 | 1 | | 8.30 | 1 |  | 8.30 |
| 58A | ZBA37B | | | | 1 | ZBA37B | | 1 | ZBA37B | | 1 | ZBA37B | | |
| 139A | ZAA58 | | | | 1 | ZAA58 | | 1 | ZAA58 | | 1 | ZAA58 | | |
| 301A | ZAA139 | | | | 1 | ZAA139 | | 1 | ZAA139 | | 1 | ZAA139 | | |
| | ZBA301 | | | | 2 | ZBA301 | | 2 | ZBA301 | | 2 | ZBA301 | | |
| | | | | | 2 | 5/16 | | 2 | 5/16 | | 2 | 5/16 | | |
| | | | | | 2 | 1/4-20 x 5/8 | | 2 | 1/4-20 x 5/8 | | 2 | 1/4-20 x 5/8 | | |
| | | | | | 2 | 1/4 | | 2 | 1/4 | | 2 | 1/4 | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 37F-C | 37F-C Cam Gear Bracket. Effective on Engine. (Cam Gear Bracket always fitted with. Exhaust Rolle Rocker Pin. Exhaust Roller Rocker Pin Washer. Exhaust Roller Rocker Pin Cotter. | | | 1393 | | 17.40 | 1 | | 21.60 | 1 | ZAA1393 | 21.60 | 1 | ZAA1393 | 21.60 |
| | | 37C | 506972 | | 1 | 506674 | | 1 | 506872 | | 1 | 506872 | | |
| | | 58A | ZAA37A | | 1 | ZBA37B | | 1 | ZBA37B | | 1 | ZBA37B | | |
| 63A | ZAA58 | 6.65 | 1 | ZAA58 | 7.60 | 1 | ZAA58 | 7.60 | 1 | ZAA58 | 7.60 | | | |
| | 15UK | | 1 | 15UK | | 1 | 15UK | | 1 | 15UK | | | | |
| | 3/32x7/8 | | 1 | 3/32x7/8 | | 1 | 3/32x7/8 | | 1 | 3/32x7/8 | | | | |

1 1/2, 3 AND 6 H. P. "Z" ENGINES WITH SUMMER OSCILLATING MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group | | | | NAME OF PART | | | |
|-------------------------------------|--------------------------|--|---|-----------------------------------|-----------------------|---|-----------------------------------|-----------------------|---|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol |
| 50A-C 50A | 50A 34B 35B 731 | 1 1 1 1 | ZAA50 ZAA34 ZAA35 ZA731 | 1.92 1.52 .23 .11 .06 | 1 1 1 1 | ZBA50 ZBA34 ZBA35 ZBA731 | 2.10 1.62 .27 .13 .08 | 1 1 1 1 | ZBA50 ZBA34 ZBA35 ZBA731 |
| 51 55A | | 1 1 | ZAA55A $\frac{1}{16}$ SAE | .19 .04 | 1 1 | ZC51 ZBA55A $\frac{3}{8}$ SAE | .19 .29 .04 | 1 1 1 | ZC51 ZBA55A $\frac{3}{8}$ SAE |
| 58A | | 1 | ZAA58 $\frac{3}{32}$ x $\frac{1}{4}$ | .19 | 1 | ZAA58 $\frac{3}{32}$ x $\frac{1}{4}$ | .19 | 1 | ZAA58 $\frac{3}{32}$ x $\frac{1}{4}$ |
| 60B | | 1 | ZA60 | .19 | 1 | ZBA60 | .06 | 1 | ZBA60 |
| 63A 71 72 | | 1 1 1 | 15UK DJ71 $\frac{1}{2}$ x $\frac{5}{8}$ | .02 .04 .04 | 1 1 1 | 15UK DJ71 $\frac{1}{2}$ x $\frac{5}{8}$ | .02 .02 .04 .04 | 1 1 1 | 15UK DJ71 $\frac{1}{2}$ x $\frac{5}{8}$ |
| 71A | | 1 1 | ZAA71A $\frac{1}{8}$ x $\frac{7}{8}$ | .06 | 1 1 | ZAA71A $\frac{1}{8}$ x $\frac{7}{8}$ | .06 | 1 1 | ZAA71A $\frac{1}{8}$ x $\frac{7}{8}$ |
| 76B 79A 79B 80A 80B | | 1 2 2 1 1 | ZAA76 #318 #319 ZA86 ZAA86A | .10 .02 .02 .38 .38 | 1 2 2 1 1 | ZBA76 #318 #319 ZA86 ZAA86A | .11 .02 .02 .38 .38 | 1 2 2 1 1 | ZBA76 #318 #319 ZA86 ZAA86A |
| 81A-C | | 1 | #506972 | 3.30 | 1 | #506972 | 3.35 | 1 | #506972 |

81A-C Governor Spindle.

Used previous to engine.

Above 71 and 72 not furnished for repairs, we send:

EQUIPMENT WITH HOMER ROTARY WITH SUMMER OSCILLATING MAGNETO

Repair Price List—1½ H. P., 3 H. P. 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|---|-------------|----------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | | | |
| *121 | | 1 | ZAA122 | .02 | 1 | ZB121 | .08 | 1 | ZB121 | .08 | 1 | ZB121 | .08 |
| *122 | | 1 | #9 | .02 | 1 | ZB122 | .02 | 1 | ZB122 | .02 | 1 | ZB122 | .02 |
| *122A | | 1 | ZAA124 | .02 | 1 | ZB122A | .02 | 1 | ZB122A | .02 | 1 | ZB122A | .02 |
| 123 | | 1 | ZAA124 | .04 | 1 | #9 | .02 | 1 | #9 | .02 | 1 | #9 | .02 |
| 124 | | 4 | ZAA124 | .06 | 4 | ZB124 | .06 | 4 | ZB124 | .06 | 4 | ZB124 | .06 |
| 126 | | 16 | ZAA126 | .04 | 4 | ZB126 | .04 | 4 | ZB126 | .04 | 4 | ZB126 | .04 |
| 126A | | | ZAA126A | .06 | 12 | ZB126A | .06 | 12 | ZB126A | .06 | 12 | ZB126A | .06 |
| 128A | | | #491702 | | | #49154 | | | #492528 | | | #492528 | |
| 128B | | 1 | ZAA128B | 1.43 | 1 | ZB128B | 2.00 | 1 | ZB128B | 2.00 | 1 | ZB128B | 2.00 |
| 139A | | 1 | ZAA139 | .29 | 1 | ZAA139 | .29 | 1 | ZAA139 | .29 | 1 | ZAA139 | .29 |
| 150 | | 2 | DH150 | .17 | 2 | ZB150 | .19 | 2 | ZC150 | .19 | 2 | ZC150 | .19 |
| 151 | | 2 | ½ SAE | .06 | 2 | ½ SAE | .06 | 2 | ½ SAE | .06 | 2 | ½ SAE | .06 |
| 156A | | 1 | ZAA156 | .08 | 1 | ZA156 | .08 | 1 | ZA156 | .08 | 1 | ZA156 | .08 |
| 157 | | 1 | #868 | .06 | 1 | #878 | .08 | 1 | #878 | .08 | 1 | #878 | .08 |
| 158 | | 1 | #8610 | .08 | 1 | #8710 | .08 | 1 | #8710 | .08 | 1 | #8710 | .08 |
| 159 | | 1 | #842 | .02 | 1 | #872 | .02 | 1 | #872 | .02 | 1 | #872 | .02 |
| 160 | | 1 | DJ160 | .04 | 1 | ZB160 | .04 | 1 | ZB160 | .04 | 1 | ZC160 | .04 |
| 160 | | 2 | DJ160 | .04 | | | | | | | | | |
| 160A | | 1 | ZAA160 | .23 | | | | | | | | | |
| *176 | | 1 Pr | DJ176 | .68 | 1 Pr | ZB176 | 1.03 | 1 Pr | ZC176 | 1.03 | 1 Pr | ZC176 | 1.03 |
| *190B | | 1 | ZAA190 | .38 | 1 | ZB190A | .48 | 1 | ZCA190A | .48 | 1 | ZCA190A | .48 |
| 191 | | 1 | ZAA190 | | 1 | ZB191 | .04 | 1 | ZC191 | .04 | 1 | ZC191 | .04 |
| 192 | | 1 | ZAA192 | .02 | 1 | ZB192 | .02 | 1 | ZB192 | .02 | 1 | ZB192 | .02 |
| 195B | | 1 | ZAA195 | .11 | 1 | ZB195 | .19 | 1 | ZCA195 | .19 | 1 | ZCA195 | .19 |
| | | 2 | 10-24 x ½ | .02 | 2 | 10-24 x ½ | .02 | 2 | 10-24 x ½ | .02 | 2 | 10-24 x ½ | .02 |
| | | 2 | 2NPW | .02 | 2 | 2NPW | .02 | 2 | 2NPW | .02 | 2 | 2NPW | .02 |
| | | 2 | 2NPW | .02 | 2 | 2NPW | .02 | 2 | 2NPW | .02 | 2 | 2NPW | .02 |

Repair Price List—1½ H. P., 3 H. P. 6 H. P. "Z" Engines

35
9625A

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|---|-------------|----------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | | | |
| 197-C | 197 | 1 | ZAA197 | 1.19 | 1 | ZAA197A | 1.52 | 1 | ZCA197 | 1.63 | 1 | ZCA197 | 1.63 |
| | 24 | 1 | ZA24 | | 1 | ZBA24 | | 1 | ZCA24 | | 1 | ZCA24 | |
| | 95 | 1 | ZA95 | .74 | 1 | ZA95 | 1.04 | 1 | ZA95 | 1.15 | 1 | ZA95 | 1.15 |
| | 47 | 1 | ZA47 | | 1 | ZA47 | | 1 | ZA47 | | 1 | ZA47 | |
| | 89 | 1 | ZA89 | .28 | 1 | ZA89 | .28 | 1 | ZA89 | .29 | 1 | ZA89 | .29 |
| | 90A | 1 | ZAA76 | .02 | 1 | ZBA76 | .02 | 1 | ZAA76 | .02 | 1 | ZAA76 | .02 |
| | 76B | 1 | ZAA76 | .10 | 1 | ZBA76 | .10 | 1 | ZAA76 | .11 | 1 | ZAA76 | .11 |
| | 311A | 1 | #913 | .04 | 1 | #784 | .06 | 1 | #784 | .06 | 1 | #784 | .06 |
| 197S-C | 197S | 1 | ZAA197 | .76 | 1 | ZBA197A | .95 | 1 | ZCA197 | .95 | 1 | ZCA197 | .95 |
| | 124 | 1 | ZAA124 | .60 | 1 | ZBA124 | .78 | 1 | ZCA124 | .78 | 1 | ZCA124 | .78 |
| | 376A | 1 | ZAA376A | .10 | 1 | ZBA376 | .11 | 1 | ZCA376 | .11 | 1 | ZCA376 | .11 |
| | 311B | 1 | #888 | .06 | 1 | #784 | .06 | 1 | #784 | .06 | 1 | #784 | .06 |
| 198-C | 198 | 1 | ZAI98 | .48 | 1 | ZBA198B | .57 | 1 | ZCA198 | .57 | 1 | ZCA198 | .57 |
| | 200A | 1 | ZAI200 | .38 | 1 | ZBA200 | .48 | 1 | ZCA200 | .48 | 1 | ZCA200 | .48 |
| | *199 | 1 | ZAI99 | .04 | 1 | ZBA199A | .04 | 1 | ZCA199 | .04 | 1 | ZCA199 | .04 |
| | 336 | 1 | #889 | .06 | 1 | #926 | .06 | 1 | #928 | .06 | 1 | #928 | .06 |
| 200A | 200A | 2 | 10-24 x ½ | .02 | 2 | 14-20 x 5/8 | .02 | 2 | 14-20 x 5/8 | .02 | 2 | 14-20 x 5/8 | .02 |
| | | 2 | 1 1/8 | .02 | 2 | 1 1/8 | .02 | 2 | 1 1/8 | .02 | 2 | 1 1/8 | .02 |
| | | 1 | ZA200 | .10 | 1 | ZBA200 | .10 | 1 | ZCA200 | .10 | 1 | ZCA200 | .10 |
| | | 1 | 1 1/8 x 3/4 | | 1 | 1 1/8 x 3/4 | | 1 | 1 1/8 x 3/4 | | 1 | 1 1/8 x 3/4 | |
| 202A-C | 202A | 1 | ZAA202 | 1.98 | 1 | ZBA202 | 1.98 | 1 | ZCA202 | 1.98 | 1 | ZCA202 | 1.98 |
| | 203B-C | 1 | 203B-C | 1.06 | 1 | 203B-C | 1.06 | 1 | 203B-C | 1.06 | 1 | 203B-C | 1.06 |
| | | 2 | 3/8 x 3/4 | .04 | 2 | 3/8 x 3/4 | .04 | 2 | 3/8 x 3/4 | .04 | 2 | 3/8 x 3/4 | .04 |
| 202A-C | 202A | 1 | ZAA202 | 1.98 | 1 | ZBA202 | 1.98 | 1 | ZCA202 | 1.98 | 1 | ZCA202 | 1.98 |
| | 203B-C | 1 | 203B-C | 1.06 | 1 | 203B-C | 1.06 | 1 | 203B-C | 1.06 | 1 | 203B-C | 1.06 |
| | | 2 | 3/8 x 3/4 | .04 | 2 | 3/8 x 3/4 | .04 | 2 | 3/8 x 3/4 | .04 | 2 | 3/8 x 3/4 | .04 |

1 1/2 AND 3 H. P. "Z" ENGINES WITH SUMMER OSCILLATING MAGNETO.

1 1/2 AND 3 H. P. "Z" ENGINES WITH SUMMER OSCILLATING MAGNETO.

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|-------------------------------------|-------------|---|----------|-----------|-------------|----------|----------|-------------|----------|----------|-------------|----------|----------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| NAME OF PART | | | | | | | | | | | | | | |
| 203B-C | | 203B-C Butterfly Valve | 1 | ZAA203 | .91 | 1 | ZBA203 | 1.14 | 1 | ZCA203 | 1.14 | 1 | ZCA203 | 1.14 |
| 203B | | Butterfly Valve | 1 | | .17 | 1 | | .19 | 1 | | .19 | 1 | | .19 |
| 204C | | Butterfly Valve Stem—Not furnished without 206C. | 1 | ZAA204A | .68 | 2 | ZBA204A | .89 | 2 | ZCA204B | .89 | 2 | ZCA204B | .89 |
| | 206C | Butterfly Valve Machine Screws. | 1 | 8-32 x ¼ | | 2 | 8-32 x ¼ | | 2 | 8-32 x ¼ | | 2 | 8-32 x ¼ | |
| | | Butterfly Valve Lever—Not furnished without 204C. | 1 | ZAA206A | .06 | 1 | ZAA206B | .06 | 1 | ZCA206B | .06 | 1 | ZCA206B | .06 |
| | 326B | Butterfly Valve Spring. | 1 | #891A | | 1 | #920 | | 1 | #920 | | 1 | #920 | |
| 205A | | Governor Pull Rod with Cotters (One Piece Rod Not furnished for repairs). Send 205A-C on 1½ H. P. previous to engine #463610 and 205D-C after 1½ H. P. #463610, and on all 3 and 6 H. P. | | | | | | | | | | | | |
| 205A-C | | 205A-C Governor Pull Rod | 1 | | .42 | | | | | | | | | |
| 205A | 205A | Previous to 1½ H. P. Engine #463610. | 1 | ZAA205A | .21 | 1 | ZBA205B | .48 | 1 | ZCA205B | .51 | 1 | ZCA205B | .51 |
| | 405 | Governor Pull Rod | 1 | ZAA405 | .15 | 1 | ZAA405A | .27 | 1 | ZAA405A | .30 | 1 | ZAA405A | .30 |
| | 404 | Governor Pull Rod End. | 1 | ZAA404 | .06 | 1 | ZAA404 | .15 | 1 | ZAA404 | .15 | 1 | ZAA404 | .15 |
| | | Governor Pull Rod End Nut. | 1 | 1/8 x 3/8 | | 1 | 1/16x3/8 | .06 | 1 | 1/16x3/8 | .06 | 1 | 1/16x3/8 | .06 |
| | | Governor Pull Rod Cotters. | 2 | | | 2 | | | 2 | | | 2 | | |
| 205D-C | | 205D-C Governor Pull Rod | 1 | ZAA205C | .42 | 1 | ZBA205B | .48 | 1 | ZCA205B | .51 | 1 | ZCA205B | .51 |
| 205D | 205D | Governor Pull Rod | 1 | | | 1 | | | 1 | | | 1 | | |
| | 405A | Governor Pull Rod End. | 1 | ZAA405A | .15 | 1 | ZAA405A | .15 | 1 | ZAA405A | .15 | 1 | ZAA405A | .15 |
| | 404 | Governor Pull Rod End Nut. | 1 | ZAA404 | .06 | 1 | ZAA404 | .06 | 1 | ZAA404 | .06 | 1 | ZAA404 | .06 |
| | | Governor Pull Rod Cotters. | 2 | 1/6x3/8 | | 2 | 1/16x3/8 | | 2 | 1/16x3/8 | | 2 | 1/16x3/8 | |
| 206C | | Butterfly Valve Stem Arm Not furnished without 204C. | | | | | | | | | | | | |
| | | Butterfly Valve Stem Arm Pin. | 1 | ZAA206A | .68 | 1 | ZBA206B | .89 | 1 | ZCA206B | .89 | 1 | ZCA206B | .89 |
| | | | 1 | #209 | | 1 | #209 | | 1 | #209 | | 1 | #209 | |
| 209A-C | | 209A-C Regulator Lever | 1 | | .55 | 1 | | .55 | 1 | | .55 | 1 | | .55 |
| 209A | 209A | Speed Regulator Lever Fitted with | 1 | ZAA209 | .34 | 1 | ZAA209 | .34 | 1 | ZAA209 | .34 | 1 | ZAA209 | .34 |
| | 222A | Speed Regulator Leaf Spring | 1 | ZAA222 | | 1 | ZAA222 | | 1 | ZAA222 | | 1 | ZAA222 | |

1¹/₂, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 14 H. P. | | | 3 H. P. | | | 6 H. P. | | |
|--------------|--------------|---|----------|---------------------------------|-------------|----------|---------------------------------|-------------|----------|---------------------------------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| | 224A 230A | NAME OF PART | | | | | | | | | |
| | | Speed Regulator Adjusting Screw. | 1 | ZAA224 | .15 | 1 | ZAA224 | .15 | 1 | ZAA224 | .16 |
| | | Speed Regulator Adjusting Screw Spring. | 1 | #888 | .06 | 1 | #888 | .06 | 1 | #888 | .05 |
| 212A 222A | | Speed Regulator Lever Fulcrum Pin. | 1 | $\frac{3}{16}$ x 1 Rivet | .02 | 1 | $\frac{3}{16}$ x 1 Rivet | .02 | 1 | $\frac{3}{16}$ x 1 Rivet | .02 |
| | | Speed Regulator Leaf (Not furnished separately). | | | | | | | | | |
| 224A | | Speed Regulator Adjusting Screw. | 1 | ZAA222 | .15 | 1 | ZAA222 | .15 | 1 | ZAA222 | .15 |
| 230A | | Speed Regulator Adjusting Screw Spring. | 1 | ZAA224 | .04 | 1 | ZAA224 | .04 | 1 | ZAA224 | .04 |
| 233 | | Sub-Base Spacer—Cylinder End. | 1 | #888 | .23 | 1 | #888 | .23 | 1 | #888 | .23 |
| 233A | | Sub-Base Spacer—Crank End. | 1 | ZAA233A | .23 | 1 | ZAA233A | .23 | 1 | ZAA233A | .23 |
| | | Sub-Base Spacer | 1 | ZAA233B | .23 | 1 | ZAA233B | .23 | 1 | ZAA233B | .23 |
| | | Sub-Base Spacer—Square Nuts. | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .04 | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .04 | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .04 |
| | | Sub-Base Spacer Square Nuts. | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .04 | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .04 | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .04 |
| | | Sub-Base Spacer Plate Washers. | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .02 | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .02 | 2 | $\frac{1}{2}$ x 9 $\frac{1}{2}$ | .02 |
| | | Sub-Base End Square Nuts. | 2 | ZAA234 | .21 | 2 | ZAA234 | .21 | 2 | ZAA234 | .21 |
| 234 | | Sub-Base End Carriage Bolts. | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 |
| | | Sub-Base End Square Nuts. | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 |
| | | Sub-Base End Plate Washers. | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 | 4 | $\frac{1}{2}$ x 3 $\frac{1}{2}$ | .02 |
| | | Air Valve Seat Gasket. | 1 | ZAA247 | .02 | 1 | ZAA247 | .02 | 1 | ZAA247 | .02 |
| 247 | | Reservoir Gasket. | 1 | ZAA249 | .02 | 1 | ZAA249 | .02 | 1 | ZAA249 | .02 |
| 249A | | Starter Crank Pawl. | 1 | ZAA265A | .11 | 1 | ZAA265A | .11 | 1 | ZAA265A | .11 |
| 265B | | Starter Crank Pawl Pin. | 1 | ZAA266 | .13 | 1 | ZAA266 | .13 | 1 | ZAA266 | .13 |
| 266A | | Starter Crank Pawl Spring. | 1 | ZAA267A | .06 | 1 | ZAA267A | .06 | 1 | ZAA267A | .06 |
| 267 | | Cylinder Oiler Pipe. | 1 | $\frac{1}{2}$ x 5 $\frac{1}{2}$ | .10 | 1 | $\frac{1}{2}$ x 5 $\frac{1}{2}$ | .10 | 1 | $\frac{1}{2}$ x 5 $\frac{1}{2}$ | .10 |
| 271A | | Fuel Throttle Valve Seat Clamp. | 1 | ZAA297 | .02 | 1 | ZAA297 | .02 | 1 | ZAA297 | .02 |
| 297 | | Valve Seat Clamp Screws. | 1 | 14-20 x 1 | .02 | 1 | 14-20 x 1 | .02 | 1 | 14-20 x 1 | .02 |
| | | Magneto Clamp Stud. | 2 | ZAA301 | .15 | 2 | ZAA301 | .15 | 2 | ZAA301 | .15 |
| 301A | | Magneto Clamp Stud Nuts. | 2 | $\frac{1}{2}$ | .02 | 2 | $\frac{1}{2}$ | .02 | 2 | $\frac{1}{2}$ | .02 |
| | | Magneto Clamp Stud Lock Washers. | 2 | $\frac{1}{2}$ | .02 | 2 | $\frac{1}{2}$ | .02 | 2 | $\frac{1}{2}$ | .02 |
| | | Governor Weight Spring. | 1 | #884 | .08 | 1 | #884 | .08 | 1 | #884 | .08 |
| 308A | | Suction Valve Spring. | 1 | #919B | .08 | 1 | #919B | .08 | 1 | #919B | .08 |
| 310A | | Fuel Throttle Valve Spring. | 1 | #888 | .04 | 1 | #888 | .04 | 1 | #888 | .04 |
| 311A | | Fuel Throttle Valve Spring. | 1 | #913 | .06 | 1 | #913 | .06 | 1 | #913 | .06 |
| 311B | | Fuel Throttle Valve Spring. | 1 | #888 | .06 | 1 | #888 | .06 | 1 | #888 | .06 |

WITH SUMMER ROTARY MAGNETO.
 WITH SUMMER OSCILLATING MAGNETO.

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

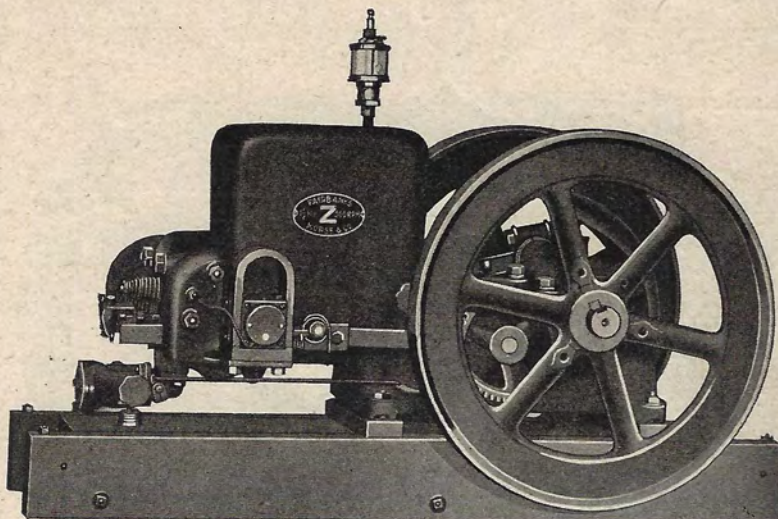
| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|---|-------------|----------|--------|-------------|----------|---------|-------------|-------------|--------|-------------|----------|-------------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | | | |
| 312 | | | 3 | 1/2 x 3 3/4 | .08 | | 3 | 5/8 x 4 1/2 | .10 | | 3 | 3/4 x 5 1/4 | .15 |
| 313 | | | 1 | 1/2 x 4 1/4 | .08 | | 1 | 3/8 x 4 3/4 | .10 | | 1 | 3/4 x 5 3/8 | .15 |
| 314A | | | 1 | #85 | .10 | | 1 | #923 | .04 | | 1 | #923 | .04 |
| *317 | | | 1 | | | | 1 | #717A | .11 | | 1 | #759A | .15 |
| 326B | | | 1 | 10-24 x 3/4 | .02 | | 1 | 10-24 x 3/4 | .02 | | 1 | 10-24 x 3/4 | .02 |
| 327A | | | 1 | #891A | .06 | | 1 | #920 | .06 | | 1 | #920 | .06 |
| 328A | | | 1 | 7/8 | .04 | | 1 | 3/8 | .04 | | 1 | 3/8 | .04 |
| 331A | | | 1 | 1/4 | .04 | | 1 | 1/4 | .04 | | 1 | 1/4 | .04 |
| 335A | | | 1 | 1/2 | .04 | | 1 | 1/2 | .04 | | 1 | 1/2 | .04 |
| *336 | | | 1 | #320 | .02 | | 1 | #926 | .06 | | 1 | #928 | .06 |
| 337 | | | 1 | #889 | .06 | | 1 | | | | 1 | | |
| 337A | | | 1 | ZAA337A | .23 | | | | | | | | |
| *337B | | | 1 | ZAA334A | .23 | | | | | | | | |
| 337B | | | 1 | ZAA337B | .23 | | | | | | | | |
| 337C | | | 1 | ZAA334A | .23 | | | | | | | | |
| *337B | | | 1 | ZAA337C | .23 | | | | | | | | |
| 337 | | | 1 | ZAA344A | .23 | | | | | | | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| 337C | | | 1 | | | | 1 | | | | 1 | | |
| *337B | | | 1 | | | | 1 | | | | 1 | | |
| 337A | | | 1 | | | | 1 | | | | 1 | | |
| 337B | | | 1 | | | | 1 | | | | 1 | | |
| | | | | | | | | | | | | | |

1½ 3 AND 6 H. P. "Z" ENGINES WITH BOSCH MAGNETO.

| Repair Nos. Arranged Numerically | Groups Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | | |
|-------------------------------------|--------------------------------|---|----------------------------|---------------------------------|-------------------|-----------|--------|-----------------------|----------|-----------------------|-------------|------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| 273A | | 273A Magneto Previous to 1½ H. P. Engine #463610. | | | | | | | | | | |
| 273A | 273A *64962 *65136 | Magneto with..... Magneto Trip Lever..... Magneto Trip Lever Springs..... | 1 1 2 | AB33Bosch SA64962 FP65136 | | | | | | | | |
| | | Magneto to Bracket Cap Screws..... Magneto to Bracket Cap Screws..... Magneto to Bracket Lock Washers..... | 2 2 4 | 1 x 3/8" x 3/4" x 3/4" | .04 .04 .02 | | | | | | | |
| 273A | | 273A Magneto Previous to 3 H. P. Engine #489408 and 6 H. P. Engine #488381 | | | | | | | | | | |
| 273A | 273A *63890 *64028 | Magneto with..... Trip Lever..... Trip Lever Springs..... Magneto to Bracket Studs..... Magneto to Bracket Stud Nuts..... | 1 1 1 2 4 4 | | | AB33Bosch | | AB33Bosch | | AB33Bosch | | .06 .04 |
| 273B | | 273B Magneto. Effective on 1½ H. P. Engine #463610. Effective on 3 H. P. Engine #489408. Effective on 6 H. P. Engine #488381. | 1 | | | | | | | | | |
| 273B | 273B 1393 63890 64028 | Magneto with..... Magneto to Bracket Dowels..... Magneto Trip Lever..... Magneto Trip Lever Springs..... | 1 2 1 2 | AB33Bosch ZAAA1393 | | | | AB33Bosch ZAAA1393 | | AB33Bosch ZAAA1393 | | |

FAIRBANKS-MORSE

$1\frac{1}{2}$ H. P. "Z" ENGINE WITH SUMTER OSCILLATING MAGNETO



This shows the $1\frac{1}{2}$ H. P. Throttling Governor Engine with Sumter Oscillating Magneto. Built from engine Number 345865 to 394368.

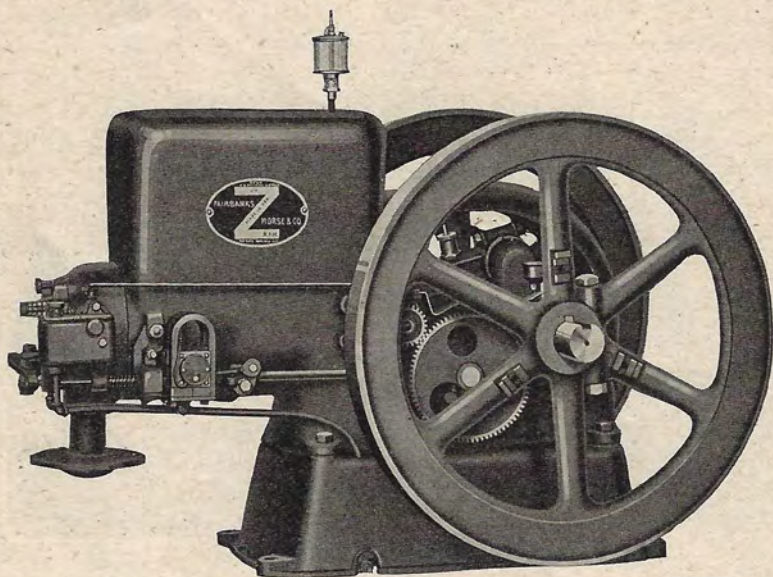
On this type of engine it will be noted that the oscillating magneto is located on a bracket attached to the cylinder head.

1, 3 and 6 H. P. "Z" EQUIPPED
WITH SUMTER OSCILLATING
MAGNETO.

WITH SUMTER ROTARY
MAGNETO.

FAIRBANKS-MORSE

3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO



(3371G)

This shows the 3 and 6 H. P. "Z" engines with Sumter oscillating Magneto.
3 H. P. engines from 268918 to 333880.
6 H. P. engines from 267230 to 392388.

On this type of engine it will be noted that the oscillating magneto is located on a bracket attached to the cylinder, near the cylinder head. Below will be found a brief description of the changes made in these engines affecting repairs.

Cylinder Heads. Effective on 3 H. P. engine #290867.
Effective on 6 H. P. engine #319858.

The cylinder head and fuel pump lever (66) were changed to put the pump lever on the outside of the exhaust rod, therefore a new pump lever (66A) will be furnished with head ordered for an engine previous to these numbers. (See group 3-C, page 49.)

Water Throttle Fitting. Effective on 3 H. P. engine #318498.

This feature was omitted on the 3 H. P. engine, but was continued on the 6 H. P. Repairs will be furnished as shown in group 217-C, page 65.

REPAIR PARTS LIST
FOR
1½, 3 AND 6 H. P. "Z" ENGINES WITH
SUMTER OSCILLATING MAGNETO

When ordering parts for repairs always give the description as given in this list by the repair number, symbol (if shown), and name of part wanted; also the size, type and number of engine. Too much care cannot be taken in giving these particulars.

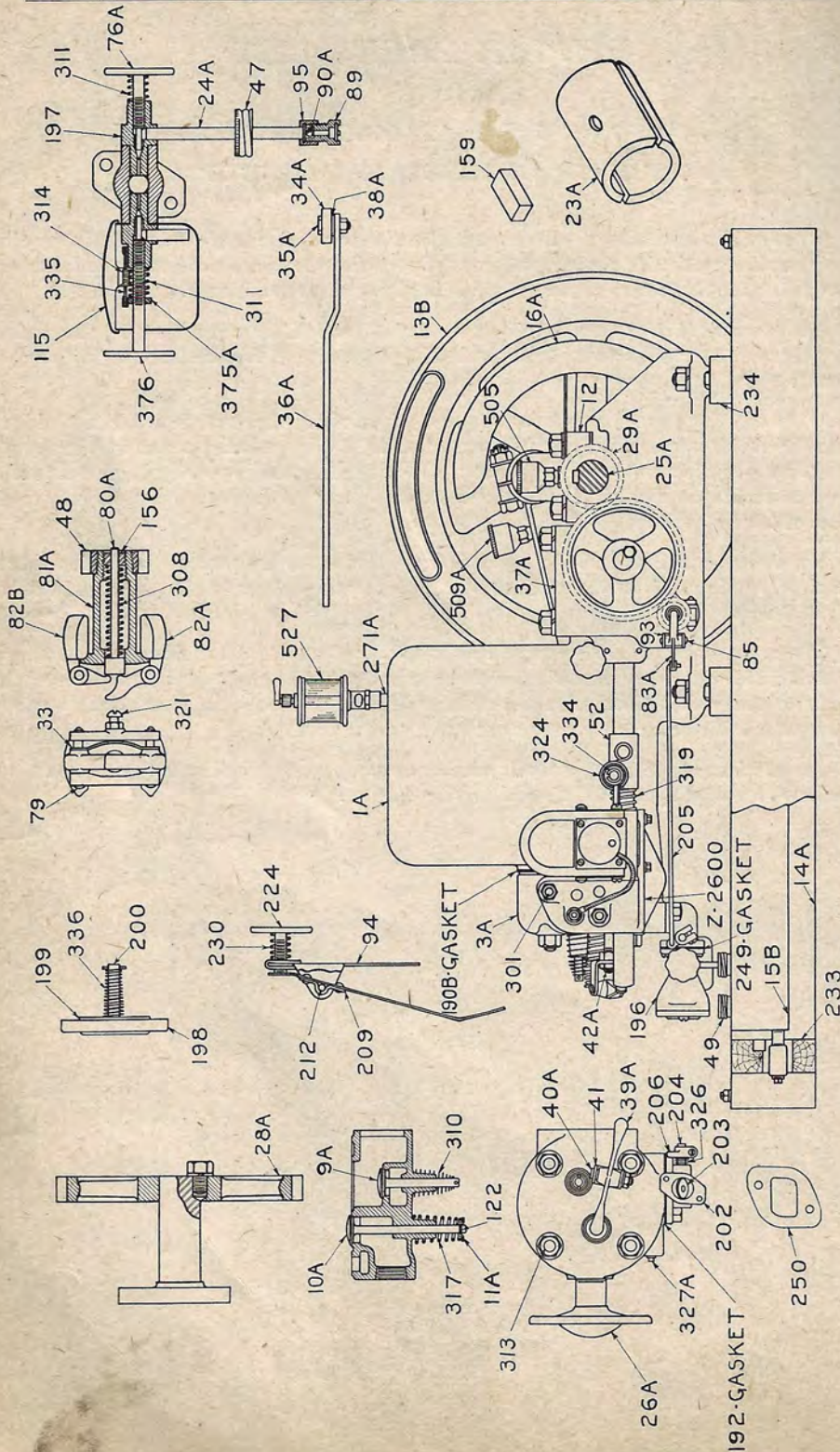
For example: If a set of piston rings is wanted for 6 H. P. engine #289381, the order should read, "Three #6 piston rings, symbol ZC6 piston rings," for 6 H. P. type "Z" engine #289381.

When ordering a group complete, use the repair number in heavy type, but for individual parts the repair number and symbol may be used. Before ordering a complete group of parts by the repair number in heavy type at the head of a group, carefully check over such group to make sure that all parts included therein are wanted, as they will be furnished unless otherwise specified.

For example: If in the 3A-C group, it is found that everything except the suction valve complete, repair #9A-C is wanted, instead of ordering the balance of the parts separately, order 3A-C less 9A-C.

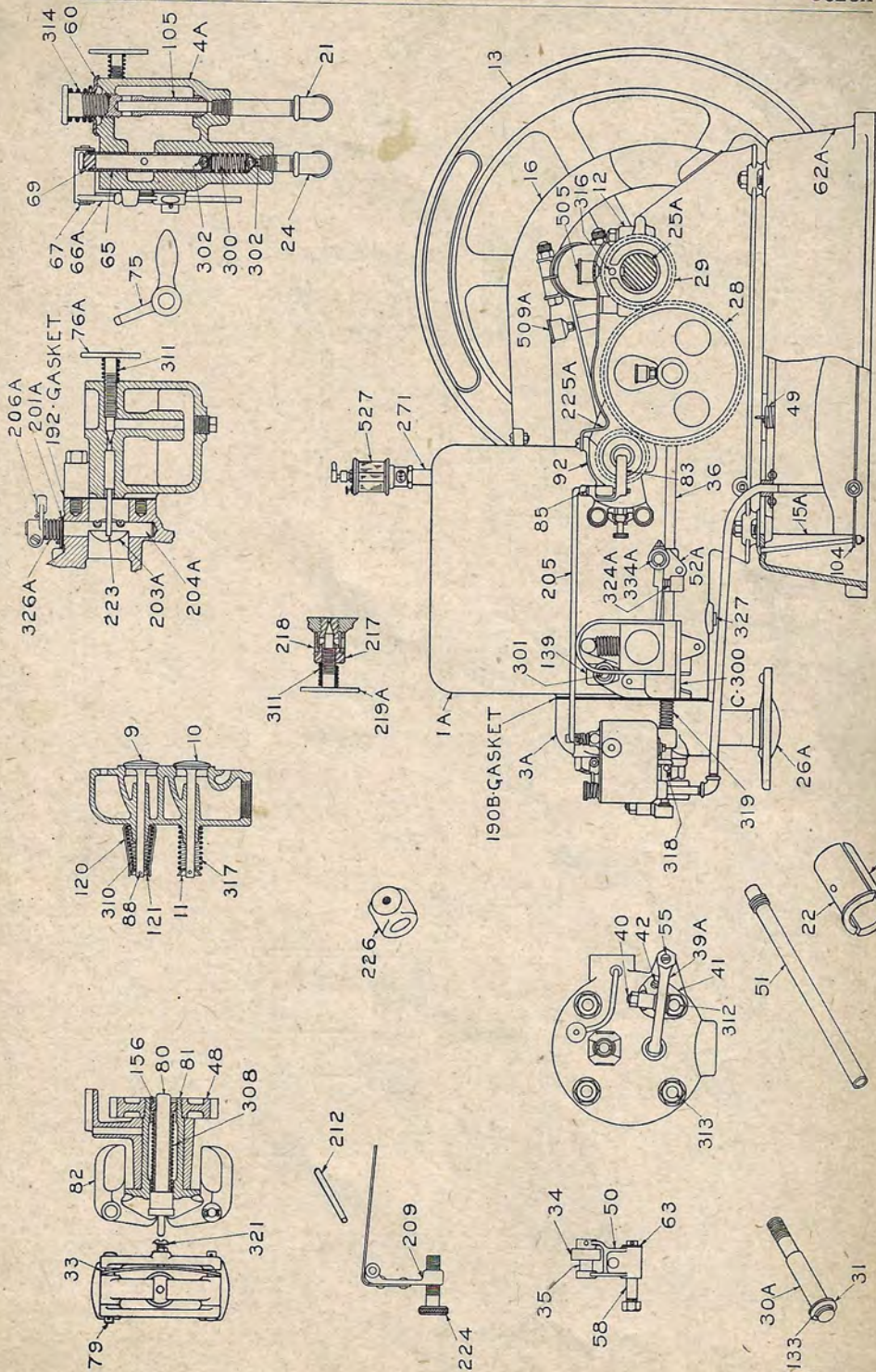
The group headings are arranged in numerical order. To determine repair numbers and names of parts wanted, and whether they can be ordered by group number, find the repair number of the parts on the repair chart and then, by referring to the list, determine the name of the parts and whether they can be ordered by group number.

An asterisk (*) preceding a repair number or group number indicates that the part so marked is included in the "Z" Engine Service Cabinet.



1½ H. P. "Z" Engine with Sumter Oscillating Magneto

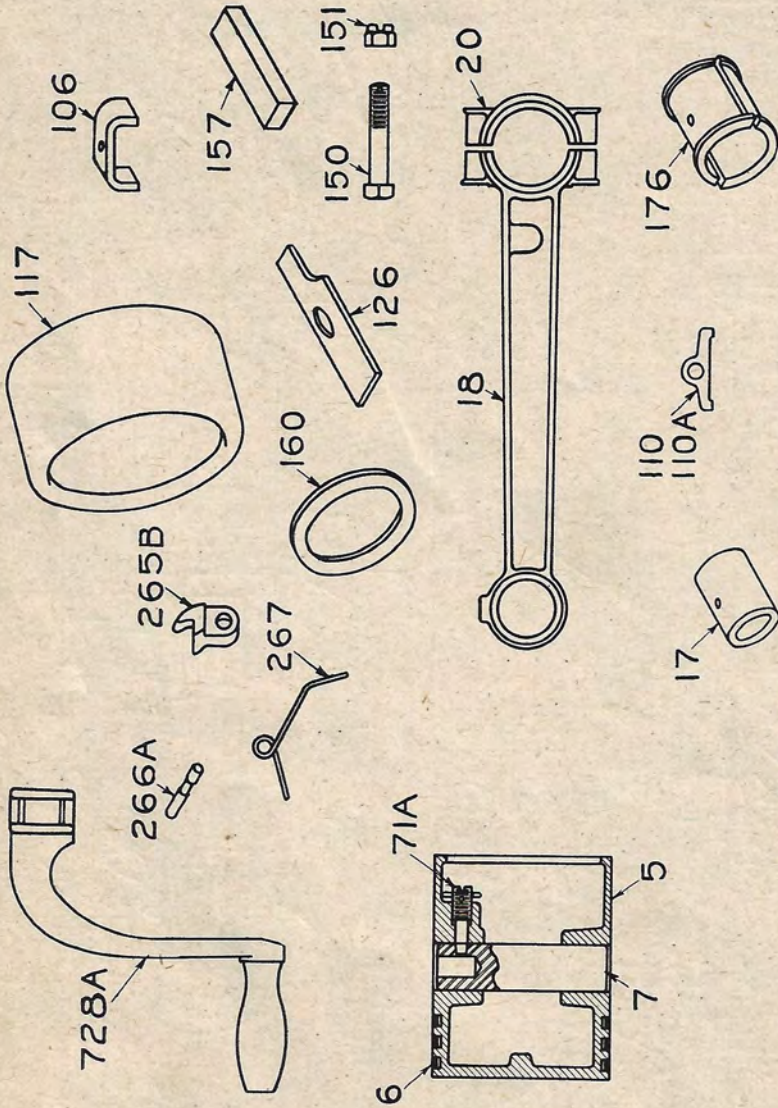
50ZA1



50ZB

3 and 6 H. P. "Z" Engines with Sumter Oscillating Magneto

BY ORDER OF THE MANUFACTURER
WITH SUMTER ROTARY
MAGNETO.



50ZB1

1½, 3 and 6 H. P. "Z" Engines with Sumter Magneto

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

49
9625A

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | | NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | | |
|----------------------|---|---|----------|--------|--|----------|--------|-------------|----------|--------|-------------|-------|
| Arranged Numerically | Group Parts | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| 1A-C 1A | 12 126 327 328 301 312 313 195 195A 271 271A 22 23 23A | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | |
| | | 1A-C Cylinder and Base. | | | | | | | | | | |
| | | | | 1 | ZAI | 24.30 | 1 | ZB1C | 44.65 | 1 | ZC1A | 68.50 |
| | | | | 1 | DJ12 | | 1 | ZB12 | | 1 | ZC12 | |
| | | | | 2 | ½ x 1½ | | 2 | ½ x 1½ | | 2 | ½ x 2½ | |
| | | | | 4 | ZAI26A | | 4 | ZB126A | | 4 | ZC126A | |
| | | | | 4 | ½ x 3½ | | 4 | ZB301 | 42.15 | 4 | ZC301 | 64.70 |
| | | | | 8 | ½ x 3½ | | 8 | ZB195 | | 8 | ZC195 | |
| | | | | 1 | ZAI195 | | 1 | 10-24x1/4 | | 1 | 2NPW | |
| | | | | 2 | 10-24x1/4 | | 2 | 1/4x8 | | 2 | 10-24x1/4 | |
| | | | | 2 | 2NPW | | 2 | ZB23 | | 2 | 2NPW | |
| | | | | 1 | 1/4x6 1/2 | | 1 | ZB23 | | 1 | 1/4x10 | |
| | | | | 1 | Main Bearing Liners, Upper (Furnished in pairs only) | | 1 | ZB23 | 1.26 | 1 | ZC23 | 1.90 |
| | | | | 1 | Main Bearing Liners, Lower (Furnished in pairs only) | | 1 | ZB23 | 1.26 | 1 | ZC23 | 1.90 |
| | | | | 2 | Main Bearing Liners (Furnished in pairs only) | | 2 | ZA23 | .58 | 2 | ZC23 | 1.90 |
| 3-C | 3 66A 203A-C 9-C | 4 | ½ | .04 | .04 | ZB3G | .06 | 4 | ZC3D | .08 | | |
| | | | | | | ZB66F | | | ZC66A | | | |
| | | | | | | 203A-C | | | 203A-C | | | |
| | | | | | | 9-C | | | 9-C | | | |
| | | | | | | | | | | | | |

WITH SUMTER ROTARY MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | | NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|----------------------|-------------|--|----------|-----------------------------------|-------------|----------|-----------------------------------|-------------|----------|-----------------------------------|-------------|
| Arranged Numerically | Group Parts | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| | 10-C | Exhaust Valve Complete | | | | | | | | | .91 |
| | 217-C | Water Throttle Fitting Complete | | | | | | | | | 1.20 |
| 3A-C | | 3A-C Cylinder Head Complete Effective on 3 H. P. engine #290867. Effective on 6 H. P. engine #319858. | 1 | | 11.50 | 1 | | 13.00 | 1 | | 17.50 |
| .3A | 3A | Cylinder Head | 1 | ZA3 | 7.50 | 1 | ZB3G | 11.30 | 1 | ZC3D | 14.30 |
| | 42A | Cylinder Head to Oscillator Studs | 2 | $\frac{3}{8} \times 3\frac{1}{2}$ | | | | | | | |
| | 327A | Cylinder Head to Valve Rocker Bracket Stud | 1 | $\frac{3}{8} \times 2\frac{1}{2}$ | | | | | | | |
| | 203A-C | Cylinder Head Drain Plug | | | | | | | | | |
| | 9-C | Butterfly Valve Complete | | | | | | | | | |
| | 9A-C | Suction Valve | 1 | 9A-C | .46 | 1 | 203A-C | .97 | 1 | 203A-C | 1.06 |
| | 10-C | Exhaust Valve | | | | | | | | | |
| | 10A-C | Water Throttle Fitting | 1 | 10A-C | .53 | 1 | 10-C | .74 | 1 | 10-C | .91 |
| | 217-C | Butterfly Valve Casing | 1 | 202-C | 1.98 | | | | | | |
| | 202-C | Exhaust Valve Rocker Bracket | 1 | 41-C | .95 | | | | | | |
| | 41-C | Valve Casing Cap Screws | 2 | $\frac{3}{8} \times \frac{3}{4}$ | .02 | | | | | | |
| | 192 | Valve Casing Gasket | 1 | ZA192 | .02 | | | | | | |
| | | Engine to sub-base machine bolts | 4 | $\frac{1}{2} \times 5\frac{1}{2}$ | .06 | | | | | | |
| | | Engine to sub-base machine bolt Nuts | 4 | $\frac{1}{2}$ | .04 | | | | | | |
| | | Engine to sub-base lock washers | 4 | $\frac{1}{2}$ | .02 | | | | | | |
| | | Engine to sub-base cap screws | | | | | | | | | |
| 4A-C | | 4A-C Reservoir | | | | | | | | | |
| 4A | 4A | Reservoir Body—Always with | 1 | | 6.60 | 4 | $\frac{1}{2} \times 1\frac{1}{2}$ | .08 | 4 | $\frac{5}{8} \times 1\frac{3}{4}$ | .08 |
| | 223 | Reservoir Nozzle and Bushing | 1 | ZB4F | | 1 | ZB4F | 6.60 | 1 | ZC4B | 6.70 |
| | | Reservoir Drain Plug | 1 | ZC223 | 4.50 | 1 | ZC223 | 4.50 | 1 | ZC223 | 4.60 |
| | | Reservoir Lock Out Lever Cotter | 1 | $\frac{1}{8} \times \frac{5}{8}$ | | 1 | $\frac{1}{8} \times \frac{5}{8}$ | | 1 | $\frac{1}{8} \times \frac{5}{8}$ | |
| | 60 | Reservoir Cover | 1 | ZB60B | .06 | 1 | ZB60B | .06 | 1 | ZB60B | .06 |
| | 314 | Reservoir Cover Spring | 1 | #742 | .04 | 1 | #742 | .04 | 1 | #742 | .04 |
| | 65-C | Pump Plunger Complete | 1 | 65-C | .80 | 1 | 65-C | .80 | 1 | 65-C | .80 |
| | | Reservoir Short Cap Screw | 1 | 5/16x1 1/4 | .02 | 1 | 5/16x1 1/4 | .02 | 1 | 5/16x1 1/4 | .02 |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|-------------|---|----------|---------|-------------|----------|--------|-------------|----------|--------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 10A-C | | 10A-C Exhaust Valve | | | | | | | | | |
| *10A | 10A | Exhaust Valve | 1 | ZAA410 | .53 | | | | | | |
| *11A | 11A | Exhaust Valve Spring Collar | 1 | ZAI1 | .40 | | | | | | |
| | 122 | Exhaust Valve Spring Collar Lock | 1 | ZAI22 | .04 | | | | | | |
| | 317 | Exhaust Valve Spring | 1 | #885 | .10 | | | | | | |
| 12 | | Main Bearing Caps | 2 | DJ12 | .46 | | | | | | |
| | | Main Bearing Cap Screws | 4 | ½ x 1½ | .06 | | | | | | |
| | | Main Bearing Cap Lock Washers | 4 | ½ x 1½ | .02 | | | | | | |
| 13 | | Flywheel Opposite Governor With Flywheel Clamp Bolt with Nut | 1 | | | | | | | | |
| | | Flywheel Governor Side With Flywheel Clamp Bolt with Nut | 1 | | | | | | | | |
| 13A | | Flywheel to Crankshaft Pinion Pin | 1 | | | | | | | | |
| 13B | | Flywheel With Flywheel Clamp Bolt With Nut | 2 | ZAI3 | 6.10 | | | | | | |
| | | Starter Crank | 2 | ½ x 4 | | | | | | | |
| 14-C | | See group 728A-C for details. | | | | | | | | | |
| 14A-C | | 14A-C Subbase | | | | | | | | | |
| 14A | 14A | Subbase half—governor side | 1 | ZAI4C | 4.40 | | | | | | |
| 14B | 14B | Subbase half—opposite governor | 1 | ZAI4D | | | | | | | |
| | 233 | Subbase spacer cylinder end | 1 | ZAA233A | | | | | | | |
| | 233A | Subbase spacer crank end | 1 | ZAA233B | | | | | | | |
| | | Subbase spacer carriage bolts | 2 | ½ x 9½ | 2.70 | | | | | | |
| | 234 | Subbase to engine fill-up pieces | 2 | ZAA234 | | | | | | | |
| | | Subbase end carriage bolts | 4 | ½ x 3½ | | | | | | | |
| | 15B | Fuel Tank | 1 | ZAI5 | 1.71 | | | | | | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1½ H. P. | | 3 H. P. | | 6 H. P. | | | |
|-------------------------------------|-------------|---|--|-------------|----------|-------------|----------|-------------|--|--|
| | | | No. Used | Price, Each | No. Used | Price, Each | No. Used | Price, Each | | |
| 15 | 15 | NAME OF PART | Fuel Tank | | | | | | | |
| | | | Fuel Tank Flange | | | | | | | |
| | | | Fuel Tank Flange Head Rivets | | | | | | | |
| | | | Fuel Tank Drain Flange | | | | | | | |
| | | | Fuel Tank Drain Flat Head Rivets | | | | | | | |
| | | | Fuel Tank Filler Opening Screw Neck | | | | | | | |
| | | | Fuel Tank Filler Opening Screw Neck Cap | | | | | | | |
| | | | Fuel Tank Filler Opening Screw Neck Cap Handle | | | | | | | |
| | | | Fuel Tank Drain Flange Plug | | | | | | | |
| | | | | | | | | | | |
| 15B | 15B | NAME OF PART | Fuel Tank | | | | | | | |
| | | | Fuel Tank Drain Nipple | | | | | | | |
| | | | Fuel Tank Drain Coupling | | | | | | | |
| | | | Fuel Tank Drain Pipe Plug | | | | | | | |
| | | | Fuel Tank Filler Opening Screw Neck Cap | | | | | | | |
| | | | Fuel Tank Straps | | | | | | | |
| | | | Fuel Tank Strap Rivets | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 16 | 104 | NAME OF PART | Oil Shield Always Fitted With | | | | | | | |
| | | | Oil Shield Clip | | | | | | | |
| | | | Oil Shield Stove Bolt | | | | | | | |
| | | | Oil Shield Stove Bolt Lock Washer | | | | | | | |
| | | | | | | | | | | |
| 16A | 104 | NAME OF PART | Oil Shield Always Fitted With | | | | | | | |
| | | | Oil Shield Clip Governor Side | | | | | | | |
| | | | Oil Shield Clip Opposite Governor | | | | | | | |
| | | | Oil Shield Clip Base | | | | | | | |
| | | | | | | | | | | |
| 17 | 104 | NAME OF PART | Piston Pin Bushing | | | | | | | |
| | | | | | | | | | | |

THE SUMTER MOTOR CO. MAKES ALL THE PARTS FOR THE SUMTER OSCILLATING MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | Group Parts | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|--|-------------|----------|---------|-------------|----------|-----------|-------------|----------|-----------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| <p>The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group.</p> <p>NAME OF PART</p> | | | | | | | | | | |
| 18-C | 18 | 1 | DJ18 | 5.50 | 1 | ZB18 | 7.55 | 1 | ZC18 | 10.20 |
| | 17 | 1 | DJ17 | 4.25 | 1 | ZB17 | 5.90 | 1 | ZC17 | 7.35 |
| | 20 | 1 | DJ20 | | 1 | ZB20 | | 1 | ZC20 | |
| | 110 | 4 | DJ110 | .04 | 4 | ZB110 | .04 | 4 | ZC110 | .04 |
| | 110A | 2 | DJ110A | .08 | 2 | ZB110A | .08 | 2 | ZC110A | .08 |
| | 150 | 2 | DJ150 | .17 | 2 | ZB150 | .19 | 2 | ZC150 | .29 |
| | 151 | 2 | ½ SAE | .06 | 2 | ½ SAE | .06 | 2 | ½ SAE | .11 |
| | 176 | 2 | ¾ x 7/8 | .68 | 2 | ¾ x 7/8 | 1.03 | 2 | ¾ x 1 1/8 | 1.90 |
| | | 1 Pr. | DJ176 | | 1 Pr. | ZB176 | | 1 Pr. | ZC176A | |
| 20 | | 1 | DJ20 | 1.14 | 1 | ZB20 | 1.41 | 1 | ZC20 | 1.90 |
| 21 | | | | | 1 | ZB21 | .38 | 1 | ZC21 | .42 |
| | | | | | 1 | ½ x 2 3/8 | | 1 | ½ x 2 3/8 | |
| 22 | | | | | 1 | | | 1 | | |
| 23 | | | | | 1 Pr. | ZB23 | 1.26 | 1 Pr. | ZC23 | 1.90 |
| 23A | | | | | 1 Pr. | AB23 | 1.26 | 1 Pr. | ZC23 | 1.90 |
| 24A | | 2 Pr. | ZA23 | .58 | | | | | | |
| 24 | | 1 | ZA24 | | | | | | | |
| | | | | | 1 | ZB24 | .34 | 1 | ZC24 | .38 |
| | | | | | 1 | ½ x 1 | | 1 | ½ x 1 | |
| 25A | | | | | 1 | | | 1 | | |
| 26A | | 1 | ZAA25 | 5.75 | 1 | ZBA25 | 11.00 | 1 | ZCA25 | 16.25 |
| 26A | 26A | 1 | | .61 | 1 | | | 1 | | 1.03 |
| | | 1 | ZA26 | .61 | 1 | ZB26 | .72 | 1 | ZC26A | 1.03 |
| | | 1 | DJ27 | | 1 | ZB27 | | 1 | ZC27A | |
| | | 1 | ZA98 | | 1 | ZB98 | | 3 | ZC98 | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|-------------------------------------|-------------|----------|--------|-------------|----------|---------|-------------|----------|--------|-------------|----------|--------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 28 | | | | | | | | | | | | | |
| 28A | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | |
| *29A | | | | | | | | | | | | | |
| 30A-C | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | |
| 34A | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 35A | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | |

The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group.

NAME OF PART

Cam Gear.....
 Cam Gear always Fitted With.....
 Cam Gear to Shaft Screw.....
 Cam Shaft.....
 Cam.....
 Crankshaft Pinion.....
 Crankshaft Pinion.....
 Crankshaft Pinion Key.....
 30A-C Cam Gear Stud—Always Furnished Complete.....
 Cam Gear Stud.....
 Cam Gear Stud Jam Nut.....
 Cam Gear Stud Lock Washer.....
 Cam Gear Stud Washer.....
 Cam Gear Stud Spring Ring.....
 Governor Weight Friction Spring.....
 Exhaust Rocker Roller.....
 Exhaust Rocker Roller.....
 Exhaust Rocker Roller Pin.....
 Exhaust Rocker Roller Pin Cotter.....
 Exhaust Roller Pin.....
 Exhaust Roller Pin Nut.....
 Exhaust Rod.....
 Fuel Pump Drive Screw SAE Fil. Head.....
 Fuel Pump Drive Screw Lock Washer.....

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | | |
|-------------------------------------|--|---|----------|-------------|-------------|----------|--------|-------------|----------|--------|-------------|--|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| 36A-C 36A | 34A 35A 731 38A 52-C | 36A-C Exhaust Rod..... Exhaust Rod..... Exhaust Rod Roller..... Exhaust Rod Roller Pin..... Exhaust Rod Roller Pin Nut..... Exhaust Rod Roller Pin Washer..... Oscillator Trip Carrier..... Oscillator Trip Carrier Cap Screws..... Oscillator Trip Carrier Lock Washers..... Oscillator Trip Carrier Plate Washer..... | 1 | ..... | 4.35 | | | | | | | |
| | | | 1 | ZA36 | .96 | | | | | | | |
| | | | 1 | ZA34 | .22 | | | | | | | |
| | | | 1 | ZA35 | .12 | | | | | | | |
| | | | 1 | ZA731 | .06 | | | | | | | |
| | | | 1 | ZA38 | .04 | | | | | | | |
| | | | 1 | 52-C | 2.80 | | | | | | | |
| | | | 2 | 3/8 x 3/4 | .04 | | | | | | | |
| | | | 2 | 3/8 x 3/4 | .02 | | | | | | | |
| | | | 1 | ZA732 | .02 | | | | | | | |
| 37A-C 37A | 94 93 83 28A 36A-C 81A-C 209-C | 37A-C Cam Gear Bracket..... Cam Gear Bracket..... Speed Regulator Bracket..... Speed Regulator Bracket R. H. M. Screws..... Speed Regulator Bracket Lock Washers..... Governor Lever Bracket..... Governor Lever Bracket R. H. M. Screws..... Governor Lever Bracket Lockwasher..... Governor Lever..... Governor Lever Fulcrum Pin..... Cam Gear Complete..... Exhaust Rod..... Governor Spindle..... Speed Regulator Complete..... | 1 | ..... | 18.50 | | | | | | | |
| | | | 1 | ZA37A | 6.65 | | | | | | | |
| | | | 1 | ZA94 | .38 | | | | | | | |
| | | | 2 | 14/20 x 1/2 | .02 | | | | | | | |
| | | | 2 | 1/4 | .02 | | | | | | | |
| | | | 1 | ZA93A | .25 | | | | | | | |
| | | | 2 | 14/20 x 3/4 | .02 | | | | | | | |
| | | | 2 | 1/4 | .02 | | | | | | | |
| | | | 1 | ZA83 | .49 | | | | | | | |
| | | | 1 | #319 | .02 | | | | | | | |
| 38A | 28A 36A-C 81A-C 209-C | Cam Gear Complete..... Exhaust Rod..... Governor Spindle..... Speed Regulator Complete..... Cam Gear Bracket Cap Screws..... Cam Gear Bracket Lock Washers..... Exhaust Roller Pin Washer..... | 1 | ..... | 2.95 | | | | | | | |
| | | | 1 | 28A | 3.75 | | | | | | | |
| | | | 1 | 36A-C | 3.30 | | | | | | | |
| | | | 1 | 81A-C | .53 | | | | | | | |
| | | | 1 | 209-C | .04 | | | | | | | |
| | | | 2 | 1/2 x 1 1/4 | .02 | | | | | | | |
| | | | 2 | 1/4 | .04 | | | | | | | |
| | | | 1 | ZA38 | .04 | | | | | | | |
| | | | 1 | ZA38 | .04 | | | | | | | |
| | | | 1 | ZA38 | .04 | | | | | | | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | | NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|----------------------|-------------|--|----------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|
| Arranged Numerically | Group Parts | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 60 | | Reservoir Cover..... | | | | | | | | | .06 |
| 62A | | SubBase..... | | | | | ZB60B | 7.70 | 1 | ZB60B | 12.60 |
| 63 | | Exhaust Rod Rocker Fulcrum Pin Washer..... | | | | | ZB62C | .04 | 1 | ZB62C | .04 |
| | | | | | | | ZB63 | | 1 | ZB63 | |
| 65-C | | 65-C Fuel Pump Plunger | | | | | | | | | .80 |
| 65 | 65 | Fuel Pump Plunger..... | | | | | ZB65C | .68 | 1 | ZB65C | .68 |
| | 302 | Fuel Pump Plunger Ball..... | | | | | 1/4 | .04 | 1 | 1/4 | .04 |
| | 69 | Fuel Pump Plunger Cap..... | | | | | ZB69A | .08 | 1 | ZB69A | .08 |
| 66 | | Fuel Pump Lever—Having Bent Arm. Previous to 3 H. P. engines #290867. Previous to 6 H. P. engines #319858. | | | | | | | | | |
| 66 | | Fuel Pump Lever..... | | | | | | | | | .15 |
| 66A | | Fuel Pump Lever—Having Straight Arm. Effective on 3 H. P. engine #290867 Effective on 6 H. P. engine #319858 | | | | | ZB66E | | 1 | ZB66E | |
| 66A | | Fuel Pump Lever..... | | | | | | | | | .15 |
| 67 | | Fuel Pump Lever Pin..... | | | | | ZB66F | | 1 | ZB66F | |
| | | Fuel Pump Lever Pin Cotter..... | | | | | #424C | .11 | 1 | #424C | .11 |
| | | | | | | | 1/8 x 5/8 | | 2 | 1/8 x 5/8 | |
| 69 | | Fuel Pump Plunger Cap..... | | | | | ZB69A | .08 | 1 | ZB69A | .08 |
| 71 | | Piston Pin Lock Pin..... | 1 | DJ71A | .04 | 1 | DJ71A | .04 | 1 | DJ71A | .04 |
| | | Piston Pin Lock Pin Headless Set Screw..... | 1 | 1/2 x 5/8 | .04 | 1 | 1/2 x 5/8 | .04 | 1 | 1/2 x 5/8 | .04 |
| | | Piston Pin Lock Pin Lock Washer..... | 1 | #10 | .02 | 1 | #10 | .02 | 1 | #10 | .02 |

Note.—The above piston pin lock pin parts will not be sent for repairs but will be replaced by 71A with cotter.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMMER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|-------------|---|----------|-----------------|-------------|----------|-----------------|-------------|----------|------------------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 71A | | Piston Pin Lock Pin—with Piston Pin Lock Pin Cotter..... | 1 1 | ZAA71A ½ x ⅞ | .06 | 1 1 | ZAA71A ½ x 1 | .06 | 1 1 | ZAA71A ½ x 1¼ | .06 |
| 75 | | Fuel Pump Lever Lockout Lever..... | | | | | | .08 | | ZB75 | .08 |
| 76A | | Fuel Throttle Valve..... | 1 | ZA76 | .11 | 1 | ZC76 | .11 | 1 | ZC76 | .11 |
| 79 | | Governor Weight Fulcrum Pin..... | 1 | | | 2 | ZB79A | .11 | 2 | ZB79A | .11 |
| 80 | | Governor Weight Fulcrum Pin Cotters..... | | | | 4 | ½ x ⅜ | | 4 | ½ x ⅜ | |
| 81 | | Governor Sleeve Pin..... | 1 | | | 1 | ZB80E | .38 | 1 | ZB80E | .38 |
| | | Governor Hub..... | 1 | | | 1 | ZB81H | 2.13 | 1 | ZB81H | 2.13 |
| *81A-C | | 81A-C Governor Spindle. | | | | | | | | | |
| 81 | | Governor Spindle..... | 1 | ZAS1 | 3.30 | | | | | | |
| 80A | | Governor Sleeve Pin..... | 1 | ZAS0A | 1.62 | | | | | | |
| 82A | | Governor Weight with Ball..... | 1 | ZAA82 | .38 | | | | | | |
| 82B | | Governor Weight Plain..... | 1 | ZAA82A | .19 | | | | | | |
| 308A | | Governor Weight Spring..... | 1 | #919B | .08 | | | | | | |
| | | Governor Weight Pins..... | 2 | #318 | .02 | | | | | | |
| 156A | | Governor Weight Spring Adjusting Screw..... | 1 | ZAI56 | .08 | | | | | | |
| 33 | | Governor Weight Friction Spring..... | 1 | ZAS33 | .10 | | | | | | |
| 48A | | Governor Pinion..... | 1 | ZA48 | .61 | | | | | | |
| 83 | | Governor Lever..... | | | | 1 | ZB83B | .40 | 1 | ZB83B | .40 |
| 83A | | Governor Lever..... | 1 | ZAS3 | .49 | | | | | | |
| 85 | | Governor Lever Fulcrum Pin..... | 1 | #319 | .02 | 1 | ZB85C | .08 | 1 | ZB85C | .08 |
| | | Governor Lever Fulcrum Pin Cotters..... | | | | 2 | ½ x ⅜ | | 2 | ½ x ⅜ | |
| 88 | | Suction Valve Spring Collar Pin..... | | | | 1 | ZB88 | .02 | 1 | ZB88 | .02 |
| *89-C | | 89-C Fuel Check Valve. | | | | | | | | | |
| *89 | 89 | Fuel Check Valve Body..... | 1 | ZAS9 | .67 | | | | | | |
| | 91 | Fuel Check Valve Strainer..... | 1 | ZAS9 | .29 | | | | | | |
| *90A | 90A | Fuel Check Valve Ball..... | 1 | ZAS9 | | | | | | | |
| | 95 | Fuel Check Valve Nut Not Furnished Separate | 1 | ¾ | .02 | | | | | | |
| | 24A | Fuel Suction Tube—Not Furnished Separate.. | 1 | ZAS24 | | | | | | | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | 1½ H. P. | | 3 H. P. | | 6 H. P. | | | |
|-------------|---|-------------|---|----------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|
| | Arranged Numerically | Group Parts | NAME OF PART | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 92-C | 92 | | 92-C Governor Bracket..... | | | | | | | | | |
| | | | Governor Bracket..... | 1 | ZB92G | 8.00 | 1 | ZB92G | 8.00 | 1 | ZB92G | 8.00 |
| | | | Governor Hub..... | 1 | ZB81H | 2.45 | 1 | ZB81H | 2.45 | 1 | ZB81H | 2.45 |
| | | | Governor Weights..... | 2 | ZB82E | 2.13 | 2 | ZB82E | 2.13 | 2 | ZB82E | 2.13 |
| | | | Governor Weights Fulcrum Pins..... | 2 | ZB79A | .27 | 2 | ZB79A | .27 | 2 | ZB79A | .27 |
| | | | Governor Weights Fulcrum Pin Cotter..... | 4 | 1/16 x 3/8 | .11 | 4 | 1/16 x 3/8 | .11 | 4 | 1/16 x 3/8 | .11 |
| | | | Governor Weights Drag Spring..... | 1 | ZB33 | .10 | 1 | ZB33 | .10 | 1 | ZB33 | .10 |
| | | | Governor Weights Drag Spring Adjusting Screw..... | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 |
| | | | Governor Weights Drag Spring Adjusting Screw Nut..... | 1 | 1/8 | .02 | 1 | 1/8 | .02 | 1 | 1/8 | .02 |
| | | | Governor Weight Spring..... | 1 | #763 | .04 | 1 | #763 | .04 | 1 | #763 | .04 |
| | | | Governor Weight Spring Adjusting Screw..... | 1 | ZB156A | .08 | 1 | ZB156A | .08 | 1 | ZB156A | .08 |
| | | | Governor Sleeve Pin..... | 1 | ZB80E | .38 | 1 | ZB80E | .38 | 1 | ZB80E | .38 |
| | | | Governor Lever..... | 1 | ZB83B | .40 | 1 | ZB83B | .40 | 1 | ZB83B | .40 |
| | | | Governor Lever Fulcrum Pin..... | 1 | ZB85C | .08 | 1 | ZB85C | .08 | 1 | ZB85C | .08 |
| | | | Governor Lever Fulcrum Pin Cotter..... | 2 | 1/16 x 3/8 | | 2 | 1/16 x 3/8 | | 2 | 1/16 x 3/8 | |
| | | | Governor Gear..... | 1 | ZB48A | 1.01 | 1 | ZB48A | 1.01 | 1 | ZB48A | 1.01 |
| | | | Speed Regulator..... | 1 | 209-C | .49 | 1 | 209-C | .49 | 1 | #209-C | .49 |
| | | | Speed Regulator Fulcrum Pin..... | 1 | #325 | .04 | 1 | #325 | .04 | 1 | #325 | .04 |
| | | | Governor Lever Bracket..... | 1 | ZA93A | .25 | 1 | ZA93A | .25 | 1 | ZA93A | .25 |
| | | | Governor Lever Bracket R. H. M. Screws..... | 2 | 14-20 x 3/4 | .02 | 2 | 14-20 x 3/4 | .02 | 2 | 14-20 x 3/4 | .02 |
| | | | Governor Lever Bracket Lock Washers..... | 2 | 1/4 | .02 | 2 | 1/4 | .02 | 2 | 1/4 | .02 |
| | | | Governor Bracket to Cylinder Cap Screws..... | 1 | ZA94 | .38 | 1 | ZA94 | .38 | 1 | ZA94 | .38 |
| | | | Speed Regulator Bracket..... | 1 | 14-20 x 1/2 | .02 | 1 | 14-20 x 1/2 | .02 | 1 | 14-20 x 1/2 | .02 |
| | | | Speed Regulator Bracket R. H. M. Screws..... | 2 | ZA95 | | 2 | ZA95 | | 2 | ZA95 | |
| | | | Fuel Check Valve Nut (not furnished separate) | 1 | | | 1 | | | 1 | | |
| | | | Closed Cylinder and Base..... | 1 | ZB101A | 37.80 | 1 | ZB101A | 37.80 | 1 | ZB101A | 37.80 |
| | | | Cylinder and Base..... | 1 | ZB12 | 35.30 | 1 | ZB12 | 35.30 | 1 | ZB12 | 35.30 |
| | | | Main Bearing Caps..... | 2 | 1/2 x 2 1/4 | | 2 | 1/2 x 2 1/4 | | 2 | 1/2 x 2 1/4 | |
| | | | Main Bearing Cap Screws..... | 4 | | | 4 | | | 4 | | |
| 93 | | | | | | | | | | | | |
| 94 | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | |
| 101A-C | | | | | | | | | | | | |
| 101A | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

1½, 3 and 6 H. P. "Z" EQUIPPED WITH SUMTER ROTARY MAGNETO.

REPAIR PARTS DEPARTMENT

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | NAME OF PART | | | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|-------------|---|--------------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 159 | | | 1 | #842 | .02 | 1 | | | | | 2 | ZC160 | .04 | |
| 160 | | Crankshaft Pinion Key | 2 | DJ160 | .04 | 2 | ZB160 | .04 | 2 | ZB160 | .04 | 2 | ZC176A | 1.90 |
| *176 | | End Thrust Washer | 1 Pr. | DJ176 | .68 | 1 Pr. | ZB176 | 1.03 | 1 Pr. | ZB176 | 1.03 | 1 Pr. | ZC190A | .53 |
| *190B | | Crank Pin Liner (Halves) | 1 | ZAA190 | .38 | 1 | ZBA190A | .48 | 1 | ZBA190A | .48 | 1 | ZC192 | .02 |
| 192 | | Cylinder Head Gasket | 1 | ZAI92 | .02 | 1 | ZB192 | .02 | 1 | ZB192 | .02 | 1 | ZC195 | .19 |
| 195 | | Reservoir Gasket | 1 | | | 1 | | | 1 | | | 1 | | |
| 195A | | Name Plate | 1 | ZAI95 | .11 | 1 | ZB195 | .19 | 1 | ZB195 | .19 | 1 | | |
| | | Name Plate R. H. M. Screws | 2 | 10/24 x ¼ | .02 | 2 | 10/24 x ¼ | .02 | 2 | 10/24 x ¼ | .02 | 2 | 10/24 x ¼ | .02 |
| | | Name Plate Washers | 2 | 2NPW | .02 | 2 | 2NPW | .02 | 2 | 2NPW | .02 | 2 | 2NPW | .02 |
| 196-C | | Air Suction Fitting | 1 | | 3.80 | 1 | | | | | | | | |
| 196 | | Air Suction Fitting, always fitted with | 1 | ZAI96 | | 1 | ZAI96 | | | | | | | |
| 197 | | Throttle Valve Seats | 2 | ZAI97 | | 2 | ZAI97 | | | | | | | |
| 114 | | Starting Reservoir | 1 | ZAI14 | 2.70 | 1 | ZAI14 | 2.70 | | | | | | |
| 314 | | Starting Reservoir Cover | 1 | ZAI15 | | 1 | ZAI15 | | | | | | | |
| 335 | | Starting Reservoir Cover Spring | 1 | #S92A | | 1 | #S92A | | | | | | | |
| 124 | | Starting Reservoir Cover Pin | 1 | #29 | | 1 | #29 | | | | | | | |
| 76A | | Starting Fuel Tube | 1 | ZAI24 | | 1 | ZAI24 | | | | | | | |
| 311 | | Fuel Throttle Valve | 1 | ZA76 | .11 | 1 | ZA76 | .11 | | | | | | |
| 376 | | Fuel Throttle Valve Spring | 2 | #S88 | .06 | 2 | #S88 | .06 | | | | | | |
| 375 | | Starting Fuel Throttle Valve | 1 | ZA376A | .11 | 1 | ZA376A | .11 | | | | | | |
| 89-C | | Starting Fuel Throttle Valve Nut | 1 | ZA375A | .04 | 1 | ZA375A | .04 | | | | | | |
| 47 | | Fuel Check Valve | 1 | 89-C | .67 | 1 | 89-C | .67 | | | | | | |
| | | Fuel Suction Opening Cap | 1 | ZA47 | .04 | 1 | ZA47 | .04 | | | | | | |
| 198-C | | Auxiliary Air Valve Seat | 1 | | .48 | 1 | | | | | | | | |
| 198 | | Auxiliary Air Valve Seat with | 1 | ZAI98 | .38 | 1 | ZAI98 | .38 | | | | | | |
| 200 | | Auxiliary Air Valve Guide | 1 | ZA200 | | 1 | ZA200 | | | | | | | |
| 199 | | Auxiliary Air Valve | 1 | ZAI99 | .04 | 1 | ZAI99 | .04 | | | | | | |
| 336 | | Auxiliary Air Valve Spring | 1 | #889 | .06 | 1 | #889 | .06 | | | | | | |
| | | Auxiliary Air Valve Spring Cotter | 1 | 1/8 x 1/4 | | 1 | 1/8 x 1/4 | | | | | | | |

U. S. MACHINERY CO. SOLELY WITH SUMTER ROTARY MAGNETO.

1¹/₂, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1 ¹ / ₂ H. P. | | 3 H. P. | | 6 H. P. | | | |
|-------------------------------------|-------------|---|-------------------------------------|-------------|-------------|----------|---------|-------------|----------|--------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 199 | | Air Valve Seat R. H. M. Screws..... | 2 | 10/24 x 1/2 | .02 | | | | | |
| 200 | | Air Valve..... | 1 | ZA199 | .04 | | | | | |
| 201A | | Air Valve Guide..... | 1 | ZA200 | .08 | | | | | |
| | | Butterfly Valve Shaft Washer..... | | | | | | | | .04 |
| 202-C | | 202-C Butterfly Valve Casing | 1 | | 1.90 | | | | | |
| 202 | | Butterfly Valve Casing..... | 1 | ZA202 | 1.20 | | | | | |
| 203 | | Butterfly Valve..... | 1 | ZA203 | .08 | | | | | |
| 204 | | Butterfly Valve Shaft..... | 1 | ZA204 | .15 | | | | | |
| | | Butterfly Valve Screw..... | 1 | 8/32 x 1/4 | .02 | | | | | |
| | | Butterfly Valve Lock Washer..... | 1 | #8 | .02 | | | | | |
| 206 | | Butterfly Valve Shaft Arm..... | 1 | ZA206 | .38 | | | | | |
| | | Butterfly Valve Shaft Arm Screw..... | 1 | 10/24 x 5/8 | | | | | | |
| 326 | | Butterfly Valve Spring..... | 1 | #891A | .06 | | | | | |
| 203A-C | | 203A-C Butterfly Valve | | | | | | | | |
| 203A | | Butterfly Valve..... | 1 | ZB203 | 1.14 | | | | | 1.14 |
| | | Butterfly Valve Screws..... | 1 | 8/32 x 1/8 | .19 | | | | | .19 |
| | | Butterfly Valve Lock Washers..... | 2 | #8 | .02 | | | | | .02 |
| 204A | | Butterfly Valve Shaft..... | 1 | ZB204B | .39 | | | | | .39 |
| 206A | | Butterfly Valve Shaft Arm..... | 1 | ZB206B | .44 | | | | | .44 |
| | | Butterfly Valve Shaft Arm Screw..... | 1 | 10/24 x 5/8 | | | | | | |
| | | Butterfly Valve Shaft Arm Washer..... | 1 | ZB201A | .04 | | | | | .04 |
| 201 | | Butterfly Valve Shaft Arm Rivet..... | 1 | 1/4x1/2 | .02 | | | | | .02 |
| 205 | | Governor Pull Rod with..... | 1 | ZA205 | .23 | | | | | .38 |
| | | Governor Pull Rod Cotters..... | 2 | 1/16 x 3/8 | | | | | | |
| 206 | | Governor Butterfly Valve Shaft Lever..... | 1 | ZA206 | .38 | | | | | |
| | | Governor Butterfly Valve Shaft Lever R. H. M. Screw..... | 1 | 10/24 x 5/8 | | | | | | |
| 206A | | Governor Butterfly Valve Shaft Lever..... | 1 | ZB206B | .44 | | | | | .44 |
| | | Governor Butterfly Valve Shaft Lever R. H. M. Screw..... | 1 | 10/24 x 5/8 | | | | | | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | NAME OF PART | | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|-------------|-----------------------|---|----------|-------------|-----------|-------------|-----------|-------------|
| | Arrangesh Numerically | Group Parts | No. Used | Price, Each | No. Used | Price, Each | No. Used | Price, Each |
| 209-C | 209-C | Speed Regulator..... | 1 | .55 | 1 | .49 | 1 | .49 |
| 209 | 209 | Speed Regulator Lever—with..... | 1 | | ZB209F | | ZB209F | |
| 222 | 222 | Speed Regulator Leaf Spring..... | 1 | .34 | ZB222A | | ZB222A | .34 |
| | | Speed Regulator Leaf Spring Rivets..... | 2 | | ¾ x ¾ | | ¾ x ¾ | |
| 224 | 224 | Speed Regulator Screw..... | 1 | .15 | ZB224 | | ZB224 | .15 |
| 230 | 230 | Speed Regulator Screw Spring..... | 1 | .06 | #888 | | #325 | .02 |
| 212 | 212 | Speed Regulator Fulcrum Pin..... | 1 | .02 | ZA212 | | #325 | .02 |
| 217-C | 217 | 217-C Water Throttle Fitting..... | | | | | | |
| 218 | 218 | Water Throttle Fitting..... | 1 | | ZB217B | | ZB217B | 1.20 |
| 219A | 219A | Water Throttle Tube..... | 1 | | ZB218B | | ZB218B | .65 |
| 311 | 311 | Water Throttle..... | 1 | | ZC219 | | ZC219 | .30 |
| | | Water Throttle Spring..... | 1 | | #784 | | #784 | .19 |
| | | | | | | | | .06 |
| 223 | 223 | Fuel Nozzle and Bushing..... | 1 | | ZC223 | | ZC223 | .10 |
| 224 | 224 | Speed Regulator Adjusting Screw..... | 1 | .15 | ZB224 | | ZB224 | .15 |
| 225A | 225A | Gear Guard with Bracket..... | 1 | | ZB225A | | ZB225A | .29 |
| | | Gear Guard R. H. M. Screw..... | 2 | | 14/20 x ½ | | 14/20 x ½ | .02 |
| 226 | 226 | Exhaust Rocker Return Spring Collar..... | 1 | | ZB226B | | ZB226B | .30 |
| 230 | 230 | Speed Regulator Adjusting Screw Spring..... | 1 | | ¾ x ¾ | | ¾ x ¾ | |
| 233 | 233 | Subbase Spacer—Cylinder End..... | 1 | .06 | #888 | | #888 | |
| 233A | 233A | Subbase Spacer—Crank End..... | 1 | .23 | ZA233A | | ZA233A | |
| | | Subbase Spacer—Carriage Bolts..... | 2 | .04 | 1 x 9/8 | | 1 x 9/8 | |
| 234 | 234 | Subbase Fill-up Pieces..... | 2 | .02 | ZA234 | | ZA234 | .02 |
| 249 | 249 | Air Suction Fitting Gasket..... | 1 | .02 | ZA249 | | ZA249 | .02 |
| 250 | 250 | Oscillator to Head Gasket..... | 1 | .04 | ZA250 | | ZA250 | .04 |
| 265B | 265B | Starter Crank Pawl..... | 1 | .11 | ZA265A | | ZA265A | .11 |
| 266A | 266A | Starter Crank Pawl Pin..... | 1 | .13 | ZA266 | | ZA266 | .13 |
| 267 | 267 | Starter Crank Pawl Pin Spring..... | 1 | .06 | ZA267A | | ZA267A | .06 |

1½, 3 AND 6 H. P. "Z" EQUIPPED WITH SUMTER ROTARY MAGNETO.

1½, 3 AND 6 H. P. "Z" EQUIPPED WITH SUMTER ROTARY MAGNETO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|---|--|----------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|----------|--------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | | | |
| 271 | | 1 | 1/4 x 6 1/2 | .10 | 1 | 1/4 x 8 | .11 | 1 | 1/4 x 10 | .15 | | | |
| 271A | Cylinder Oiler Pipe. | | | | | | | | | | | | |
| 300 | Fuel Pump Oiler Pipe. | 2 | 3/8 x 3 1/2 | .06 | 1 | #783 | .04 | 1 | #783 | .04 | | | |
| 301 | Igniter Clamp Studs. | 2 | 3/8 x 3 1/2 | .04 | 1 | 3/8 x 2 1/4 | .04 | 1 | 3/8 x 2 1/4 | .04 | | | |
| 302 | Igniter Clamp Stud Nuts. | | | | 2 | 1/4 | .04 | 2 | 1/4 | .04 | | | |
| 308 | Fuel Pump Balls. | 1 | 9/16-B | .04 | 1 | #763 | .04 | 1 | #763 | .04 | | | |
| *310 | Governor Weight Spring. | 1 | #884 | .08 | 1 | #750A | .08 | 1 | #749A | .08 | | | |
| 311 | Suction Valve Spring. | 2 | #888 | .06 | 1 | #784 | .06 | 1 | #784 | .06 | | | |
| 312 | Fuel Throttle Valve Spring. | | | | 1 | 3/8 x 4 1/4 | .10 | 1 | 3/8 x 5 1/8 | .15 | | | |
| 313 | Cylinder Head Stud (Long). | 4 | 1/4 x 3 1/2 | .08 | 3 | 3/8 x 4 1/2 | .10 | 3 | 3/8 x 5 1/4 | .15 | | | |
| 314 | Cylinder Head Studs (Short). | 1 | #892A | .04 | 1 | #742 | .04 | 1 | #742 | .04 | | | |
| 316 | Fuel Reservoir Cover Spring. | | | | 1 | #614 | .04 | 1 | #619 | .04 | | | |
| *317 | Crankshaft Pinion Pin. | 1 | #885 | .10 | 1 | #717A | .11 | 1 | #759A | .15 | | | |
| 318 | Exhaust Valve Spring. | | | | 1 | 1/4 x 1 1/2 | .06 | 1 | 1/4 x 1 1/2 | .06 | | | |
| 319 | Pump Drive Screw SAE fl. Head. | | | | 1 | #886A | .06 | 1 | #699 | .02 | | | |
| 321 | Exhaust Rod Return Spring. | 1 | 10/24 x 5/8 | .02 | 1 | 10/24 x 3/4 | .02 | 1 | 10/24 x 3/4 | .02 | | | |
| 324 | Governor Weight Friction Spring Screw. | 1 | #890 | .04 | 1 | #12 | .04 | 1 | #12 | .04 | | | |
| 324A | Oscillator Trip Finger Spring. | | | | 1 | #891A | .06 | 1 | #744B | .06 | | | |
| 326 | Butterfly Valve Shaft Spring. | 1 | | .06 | 1 | | .06 | 1 | | .06 | | | |
| 326A | Butterfly Valve Shaft Spring. | | | | 1 | | .04 | 1 | | .04 | | | |
| 327 | Cylinder Drain Plug. | | | | 1 | | .04 | 1 | | .04 | | | |
| 327A | Cylinder Head Drain Plug. | 1 | 1/4 | .04 | 1 | | .04 | 1 | | .04 | | | |
| 333 | Oscillator Trip Fulcrum Pin (not furn. sep.) | 1 | ZA333 | .04 | 1 | | .04 | 1 | | .04 | | | |
| 333A | Oscillator Trip Fulcrum Pin (not furn. sep.) | | | | 1 | | .04 | 1 | | .04 | | | |
| 334 | Oscillator Trip Fulcrum Pin Ring. | 1 | ZB334 | .04 | 1 | | .04 | 1 | | .04 | | | |
| 334A | Oscillator Trip Fulcrum Pin Ring. | | | | 1 | | .02 | 1 | | .02 | | | |
| 335 | Starting Reservoir Cover Pin. | 1 | #29 | .06 | 1 | | .06 | 1 | | .06 | | | |
| *336 | Auxiliary Valve Spring. | 1 | #589 | .11 | 1 | | .11 | 1 | | .11 | | | |
| 376 | Starting Fuel Throttle Valve. | 1 | ZA376 | .11 | 1 | | .11 | 1 | | .11 | | | |

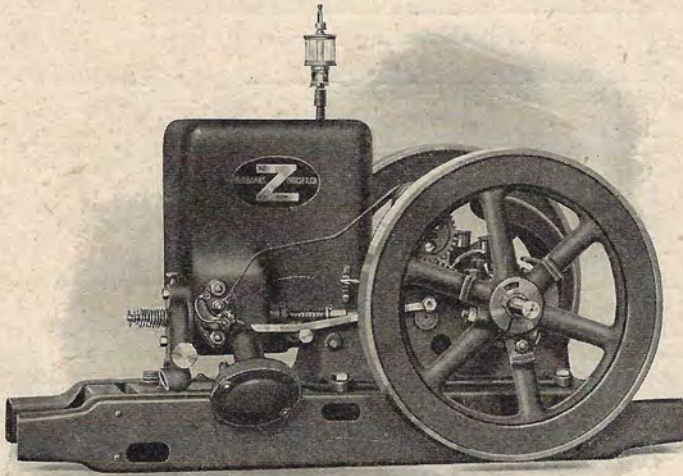
1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER OSCILLATING MAGNETO.

| Repair Nos. | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------|-------------|---|--------------|----------|--------|-------------|----------|--------|-------------|----------|--------|-------------|--|--|
| | | Arranged Numerically | NAME OF PART | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | |
| 505 | | Main Bearing Grease Cup..... | 2 | #0 | .15 | 2 | #1 | .19 | 2 | #1 | .19 | | | |
| 509A | | Connecting Rod Ratchet Grease Cup..... | 1 | #0 | .23 | 1 | #1 | .27 | 1 | #1 | .27 | | | |
| 527 | | Cylinder Oiler..... | 1 | 48A32B | 1.90 | 1 | 48A32B | 1.90 | 1 | 48A53B | 2.19 | | | |
| 694 | | Oscillator Trip Finger..... | 1 | | | | | | | | | | | |
| 695 | | Oscillator Less Magneto..... | 1 | | | 1 | C-300 | | 1 | C-300 | | | | |
| 728A-C | 728A-C | Starter Crank..... | 1 | | 1.14 | 1 | | 1.52 | 1 | | 1.90 | | | |
| 728A | 728A | Starter Crank..... | 1 | ZA728B | | 1 | ZB14 | | 1 | ZC14 | | | | |
| 265B | 265B | Starter Crank Pawl..... | 1 | ZA265A | 1.14 | 1 | ZA265A | 1.52 | 1 | ZA265A | 1.90 | | | |
| 266A | 266A | Starter Crank Pawl Pin..... | 1 | ZA266 | | 1 | ZA266 | | 1 | ZA266 | | | | |
| 267 | 267 | Starter Crank Pawl Spring..... | 1 | ZA267A | | 1 | ZA267A | | 1 | ZA267A | | | | |
| | | This Group replaces Group 14-C for Starter Cranks. | | | | | | | | | | | | |
| Z-2600 | | Oscillator Less Magneto..... | 1 | Z-2600 | | | | | | | | | | |
| 20800-C | | Magneto Only..... | 1 | #14 | | | #14 | | 1 | #14 | | | | |

1½, 3 and 6 H. P. "Z" EQUIPPED WITH SUMTER ROTARY MAGNETO.

OSCILLATING MAGNETO

FAIRBANKS-MORSE

1½ H. P. "Z" ENGINE WITH
SUMTER GEAR DRIVEN MAGNETO

(Fig. 3142G)

This shows the 1½ H. P. Hit and Miss "Z" Engine with gear driven Sumter Magneto. (Built previous to engine Number 345865).

On this type of engine it will be noted that the rotary, or gear driven magneto, is located on a bracket cast on the engine base near the crankshaft.

Below will be found a brief description of the changes made, in this engine, affecting repairs.

Igniter. Effective on engine #286859.

A heavier type of igniter was adopted. On orders for igniter body or igniter complete for an engine previous to this number the new igniter 138A-C, page 91, will be furnished. On orders for smaller parts of the old style igniter, parts will be furnished as shown in Group 138-C, page 90.

Igniter Trip Rod Blade. Effective on engine #267896.

An igniter trip rod with blade for adjustment was adopted. These will be furnished complete on all orders for the one piece rod. (See 143A-C, page 92.)

Crankshaft. Previous to engine #160361.

The crank shaft was turned down on the end for the starter crank A14. These parts, crankshaft 25 and starter crank A14, will be furnished when ordered.

Governor Fulcrum Pin. Effective on engine #261679.

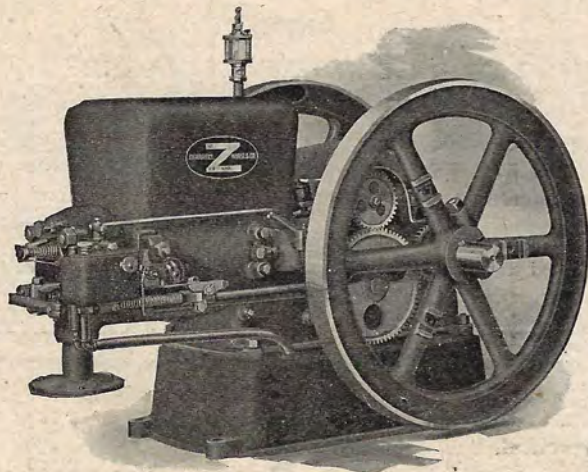
A governor fulcrum pin with a compression spring was adopted to replace the pin with washer and cotter. The new pin (33A), with spring (817A), will be furnished to replace old pin (254) with washer (251).

Governor Weight Spring. Effective on engine #176709.

A governor weight spring, #752, having only one hook was adopted, this required spring nut (262), new adjusting screw (256A), and adjusting screw eye screw (255A). These replaced the governor weight spring, #634, which had two hook using a governor spring and adjusting screw (256) and eye screw (255). Parts 634 and 256 will be furnished as ordered, but 255 will be replaced by 255A on repair orders. See cut, page 96.

FAIRBANKS-MORSE

3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO



(Fig. 3204GC)

This shows the 3 and 6 H. P. "Z" Engines with gear driven Sumter Magneto.

Built previous to 3 H. P. engine #268918, and 6 H. P., #267230.

On this type of engine it will be noted that the Rotary, or gear driven magneto is located on a bracket cast on the engine base near the crank shaft.

Below will be found a brief description of the changes made in these engines, affecting repairs.

Cylinder Heads. On 3 H. P. engine, #290867 and 6 H. P., #319853, with Sumter Oscillating Magneto, the cylinder head and pump lever (66), were changed to put the pump lever on the outside of the exhaust rod. This new head with new pump lever (66A) will be furnished with heads ordered for these engines.

Reservoirs. Effective on 3 H. P. engine #185864.
Effective on 6 H. P. engine #185978.

These reservoirs were changed to eliminate removable pump barrel No. 64.

Effective on 3 H. P. Engine #259198.

Effective on 6 H. P. Engine #259154.

A further change was made to eliminate brass check ball seat #68.

On orders for reservoirs or for #64 pump barrel for engines previous to these numbers, 4A-C reservoir with necessary extra piping will be sent. (See Group 4-C, page 75).

Subbases, Fuel Tanks and Fuel Piping. Previous to 3 H. P. engine #185864.
Previous to 6 H. P. engine #185978.

These parts were arranged so that the piping connected with the end of the fuel tank instead of the top.

For subbase repairs, see repair No. 62.

For fuel tank, see repair group No. 15.

For fuel piping, see repair group No. 304.

Silencer. Previous to 3 H. P. engine #185864.
Previous to 6 H. P. engine #185978.

A three piece silencer was used. Separate parts for this silencer will be furnished (see Group 26-C), page 81, but when complete silencer is ordered silencer 26A will be sent.

Butterfly Valve and Shaft. Previous to 3 H. P. engine #288351.
Previous to 6 H. P. engine #287103.

The butterfly valve was soldered to small shaft, and two bushings were inserted in cylinder head. For repairs on butterfly valve or shaft, the later valve and shaft screwed together will be sent. Bushing 207, shaft lever 206, washer 201, will be furnished as ordered.

1, 3 and 6 H. P. "Z" EQUIPPED
WITH SUMTER ROTARY
MAGNETO.

REPAIR PARTS LIST
FOR
1½, 3 AND 6 H. P. "Z" ENGINES
WITH
SUMTER GEAR DRIVEN MAGNETO

When ordering parts for repairs, always give the description as given in this list by the repair number, symbol (if shown), and name of part wanted; also the size, type and number of engine. Too much care cannot be taken in giving these particulars.

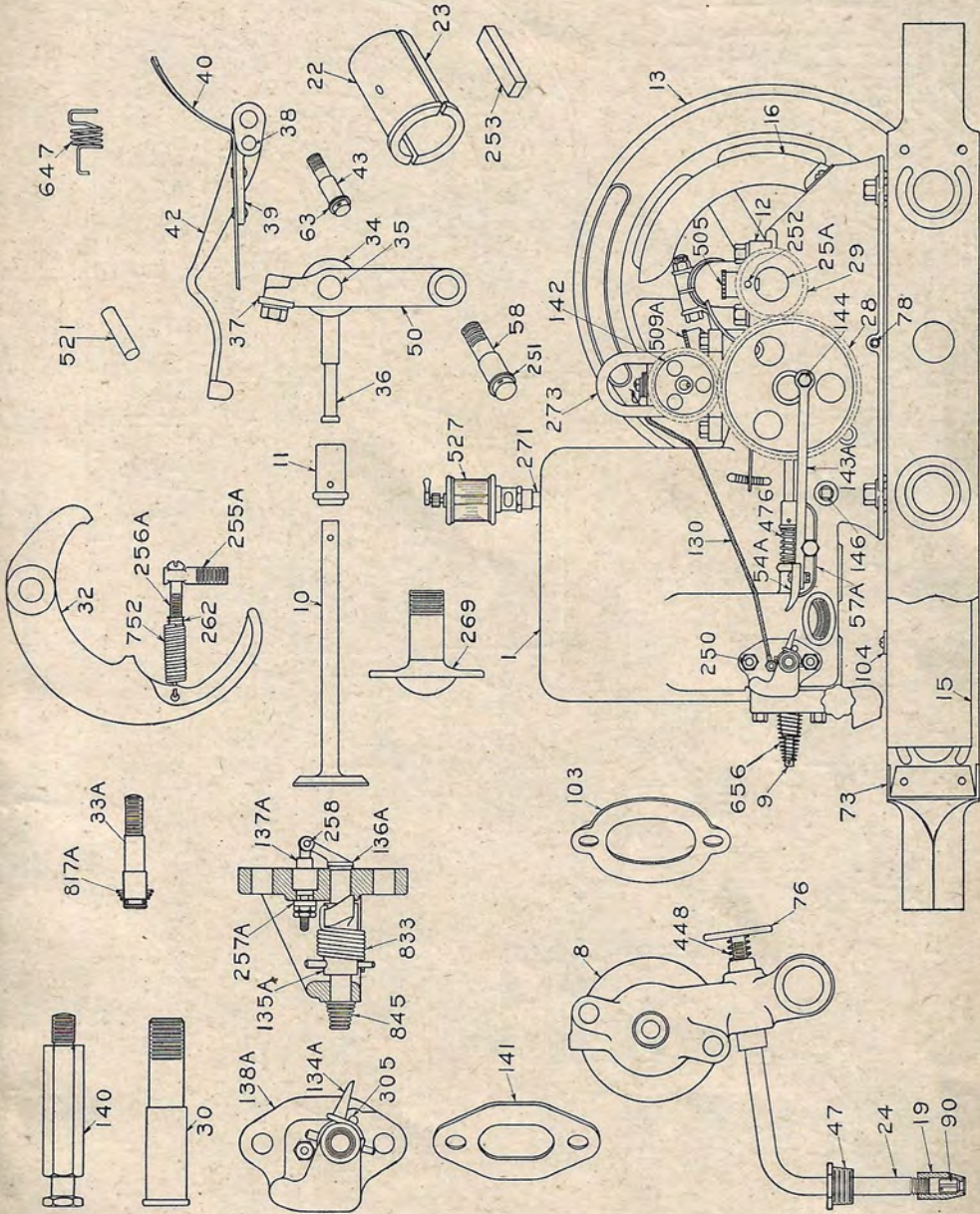
For example: If a set of piston rings is wanted for 3 H. P. engine #267820, the order should read, "Three #6 piston rings," symbol ZB6A piston rings for 3 H. P. type "Z" engine #267820.

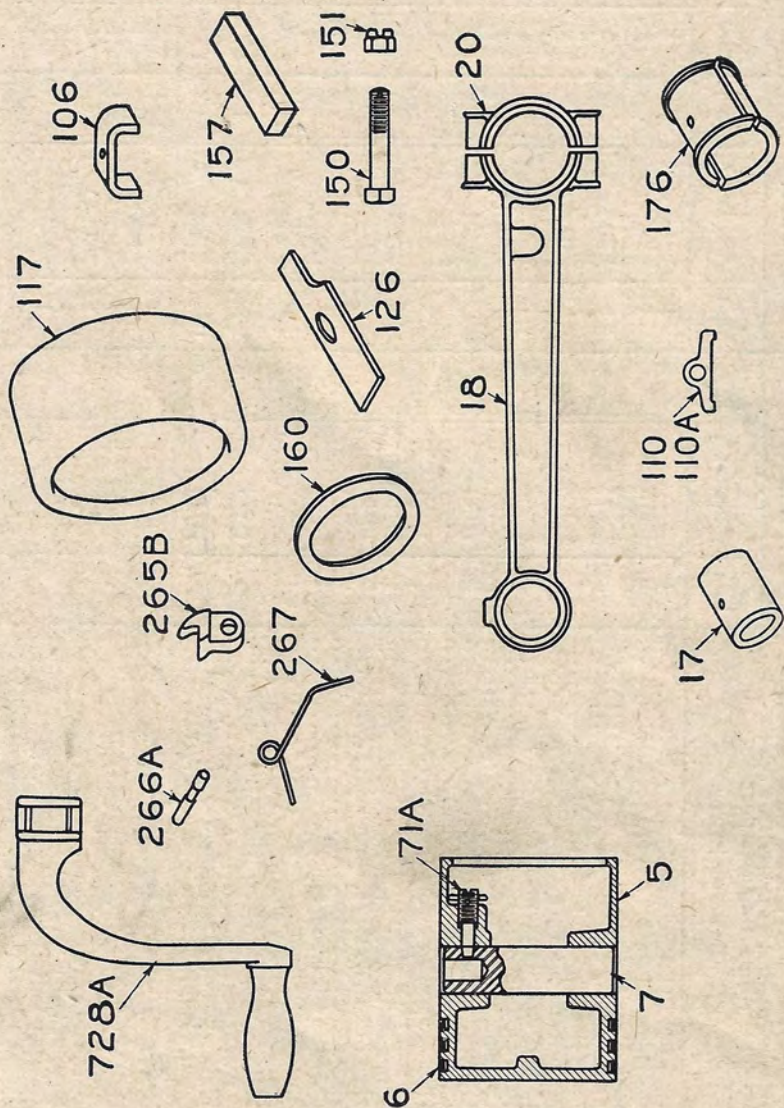
When ordering a group complete, use the repair number in heavy type but, for individual parts, the repair number and symbol may be used. Before ordering a complete group of parts by the repair number, in heavy type at the head of a group, carefully check over such group to make sure that all parts included therein are wanted, as they will be furnished unless otherwise specified.

For example: If in the 3-C group, it is found that everything except the suction valve complete, repair #9-C is wanted, instead of ordering the balance of the parts separately, order 3-C less 9-C.

The group headings are arranged in numerical order. To determine repair numbers and names of parts wanted, and whether they can be ordered by group number, find the repair number of the parts on the repair chart and then, by referring to the list, determine the name of the parts and whether they can be ordered by group number.

An asterisk (*) preceding a repair number or group number indicates that the parts marked is included in the "Z" Engine Service Cabinet.





50Z131

1½, 3 and 6 H. P. "Z" Engines with Sumter Magneto.

SUMTER ROTARY AND
OSCILLATING MAGNETO

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|---|--|----------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | | | |
| 1-C Cylinder and Base | | | | | | | | | | | | | |
| 1 | Cylinder and Base | 1 | DJ1A | 29.00 | 1 | ZB1C | 46.20 | 1 | ZC1A | 71.80 | 1 | ZB301 | 68.00 |
| 12 | Main Bearing Caps | 2 | DJ12 | | 1 | ZB12 | | 1 | ZC12 | | 1 | 5/8 x 5 1/4 | |
| | Main Bearing Cap Screws | 4 | 1/2 x 1 1/4 | | 2 | 1/2 x 1 1/4 | | 2 | 5/8 x 2 1/4 | | 2 | 5/8 x 5 1/4 | |
| 126 | Main Bearing Cap Lock Washers | 4 | DJ126A | | 4 | ZB126A | | 8 | ZC126A | | 8 | | |
| 327 | Main Bearing Shims | 8 | | 27.65 | 1 | | | 1 | | | 1 | | |
| 328 | Cylinder Drain Plug | 1 | | | 1 | ZB301 | 43.70 | 1 | ZC301 | | 1 | | |
| 301 | Base Drain Plug | 1 | 1/2 x 1 1/2 | | 1 | 5/8 x 4 1/2 | | 1 | 5/8 x 5 1/4 | | 1 | | |
| 250 | Cylinder to Igniter Stud | 2 | 1/2 x 1 1/2 | | 3 | 5/8 x 4 1/2 | | 1 | 5/8 x 5 1/4 | | 1 | | |
| 312 | Cylinder to Igniter Studs | 1 | | | 1 | ZB195 | | 1 | ZC195 | | 1 | | |
| 313 | Cylinder to Head Stud (Long) | 2 | 10-24x 1/2 | | 2 | 10-24x 1/2 | | 2 | 10-24x 1/2 | | 2 | | |
| 521 | Cylinder to Head Stud (Short) | 2 | 2NFW | | 2 | 2NFW | | 2 | 2NFW | | 2 | | |
| 195 | Defent Stop Pin | 1 | 1/8 x 8 1/2 | | 1 | ZB412 | | 1 | ZC412 | | 1 | | |
| | Name Plate | 1 | | | 2 | 1/2 x 2 1/2 | | 2 | 5/8 x 3 1/2 | | 2 | | |
| | Name Plate R. H. M. Screws | 1 | | | 1 Pr. | ZB23 | 1.26 | 1 Pr. | ZC23 | 1.90 | 1 Pr. | | |
| 271 | Name Plate Washers | 2 | | | 1 Pr. | ZB23 | 1.26 | 1 Pr. | ZC23 | 1.90 | 1 Pr. | | |
| 412 | Cylinder Oiler Nipple | 1 | | | 1 Pr. | DJ22 | .68 | 1 Pr. | DJ22 | 1.26 | 1 Pr. | | |
| | Magneto Bracket | 1 | | | 1 Pr. | DJ23 | .68 | 1 Pr. | DJ23 | 1.26 | 1 Pr. | | |
| 22 | Magneto Bracket Cap Screws | 1 | | | 1 Pr. | DJ22 | .68 | 1 Pr. | DJ22 | 1.26 | 1 Pr. | | |
| 23 | Main Bearing Liners, Upper (Furnished in pairs only) | 1 | | | 1 Pr. | DJ23 | .68 | 1 Pr. | DJ23 | 1.26 | 1 Pr. | | |
| | Main Bearing Liners, Lower (Furnished in pairs only) | 1 | | | 1 Pr. | DJ23 | .68 | 1 Pr. | DJ23 | 1.26 | 1 Pr. | | |
| 3-C Cylinder Head Complete | | | | | | | | | | | | | |
| 3 | Cylinder Head | 1 | | | 1 | ZB3G | 13.20 | 1 | ZC3D | 17.60 | 1 | | |
| 66A | Fuel Pump Lever | 1 | | | 1 | ZB66A | 11.50 | 1 | ZC66A | 14.45 | 1 | | |
| 203A-C | Butterfly Valve | 1 | | | 1 | 203A-C | | 1 | 203A-C | | 1 | | |
| 9-C | Suction Valve Complete | 1 | | | 1 | 9-C | .97 | 1 | 9-C | 1.06 | 1 | | |
| 10-C | Exhaust Valve Complete | 1 | | | 1 | 10-C | .74 | 1 | 10-C | .91 | 1 | | |
| 217-C | Water Throttle Fitting Complete | 1 | | | 1 | 217-C | | 1 | 217-C | 1.20 | 1 | | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. | | NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|----------------------|-------------|--|----------|--------|-------------|----------|--------|-------------|----------|--------|-------------|
| Arranged Numerically | Group Parts | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 4-C | | Reservoir, 1915 Pattern..... | | | | | | | | | |
| | | Previous to 3 H. P. Engine #185864 | | | | | | | | | |
| | | Previous to 6 H. P. Engine #185978 | | | | | | | | | |
| 4-C | | Reservoir, 1916 Pattern..... | | | | | | | | | |
| | | Used on 3 H. P. Engines #185864 to 259198. | | | | | | | | | |
| | | Used on 6 H. P. Engines #185978 to 259154. | | | | | | | | | |
| | | | | | | | | | | | |
| | | <p>1915 Pattern</p> <p>These reservoirs are not furnished, but are replaced by 4A-C Reservoir, with the following piping:</p> <p>Brass Close Nipple.....</p> <p>Brass Union.....</p> <p>Brass Bushing.....</p> | | | | | | | | | |
| | | | 2 | | .10 | 2 | | .10 | 2 | | .10 |
| | | | 1 | | .40 | 1 | | .40 | 1 | | .40 |
| | | | 1 | | .10 | 1 | | .10 | 1 | | .10 |

MORSE SUMTER ROTARY AND OSCILLATING MAGNETO

Repair Price List— $\frac{1}{2}$ H. P., 3 H. P., 6 H. P. "Z" Engines

1 $\frac{1}{2}$, 3 AND 6 H. P. "Z" ENGINES WITH SUMMER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1 $\frac{1}{2}$ H. P. | | 3 H. P. | | 6 H. P. | |
|-------------------------------------|-------------|---|-----------------------|-------------|--------------------------------|-------------|-------------------------------|-------------|
| | | | No. Used | Price, Each | No. Used | Price, Each | No. Used | Price, Each |
| NAME OF PART | | | | | | | | |
| 4A-C | | 4A-C Reservoir..... | | | | | | |
| | | Effective on 3 H. P. Engine #259198. | | | | | | |
| | | Effective on 6 H. P. Engine #259154. | | | | | | |
| 4A | 4A | Reservoir Body Always with..... | 1 | | ZB4F | 6.60 | ZC4B | 6.70 |
| 223 | 223 | Reservoir Nozzle and Bushing..... | 1 | | ZC223 | | ZC223 | |
| | | Reservoir Drain Plug..... | 1 | | $\frac{1}{8}$ x $\frac{1}{2}$ | | $\frac{1}{8}$ x $\frac{1}{2}$ | 4.60 |
| | | Reservoir Lock Out Lever Cotter..... | 1 | | ZB60B | | ZB60B | |
| | | Reservoir Cover..... | 1 | | $\frac{3}{32}$ x $\frac{1}{2}$ | | #742 | .06 |
| 60 | 60 | Reservoir Cover Spring..... | 1 | | #742 | .04 | 65-C | .04 |
| 314 | 314 | Pump Plunger Complete..... | 1 | | 65-C | .80 | ZC66A | .15 |
| 65-C | 65-C | Pump Lever..... | 1 | | ZB66F | .15 | #424C | .11 |
| 66A | 66A | Pump Lever Fulcrum Pin..... | 1 | | #424C | .11 | ZB75 | .08 |
| 67 | 67 | Pump Lever Lock Out..... | 1 | | ZB75 | .08 | ZC76 | .11 |
| 75 | 75 | Fuel Throttle Valve..... | 1 | | ZC76 | .11 | #784 | .06 |
| 76A | 76A | Fuel Throttle Valve Spring..... | 1 | | #784 | .06 | ZB105 | .61 |
| 311 | 311 | Overflow Valve..... | 1 | | ZB105 | .04 | $\frac{1}{4}$ #783 | .04 |
| 105 | 105 | Pump Valve..... | 1 | | $\frac{1}{4}$ #783 | .04 | | |
| 302 | 302 | Pump Valve Spring..... | 1 | | | | | |
| 300 | 300 | | 1 | | | | | |
| 5-C | | 5-C Piston..... | | 5.40 | | | | 11.60 |
| 5 | 5 | Piston Fitted with Ring Stop Pins..... | 1 | 3.75 | DJ5A | | ZC5 | 7.80 |
| *6 | 6 | Piston Rings..... | 3 | .36 | DJ6B | | ZB5 | 7.89 |
| 7 | 7 | Piston Pin..... | 1 | .53 | DJ7A | | ZC6 | 1.06 |
| 71A | 71A | Piston Pin Taper Lock Pin..... | 1 | .06 | ZAA71 | | ZC7 | .06 |
| | | Piston Pin Taper Lock Pin Cotter..... | 1 | | $\frac{3}{8}$ x $\frac{1}{2}$ | | ZAA71 | |
| | | | 1 | | $\frac{3}{8}$ x $\frac{1}{2}$ | | $\frac{3}{8}$ x $\frac{1}{4}$ | |
| 8-C | | 8-C Suction Elbow..... | | 3.10 | | | | |
| 8 | 8 | Suction Elbow Fitted with..... | 1 | 2.40 | DJ8F | | | |
| 108 | 108 | Suction Elbow Baffle Plate..... | 1 | .53 | DJ108 | | | |
| 9-C | 9-C | Suction Valve Complete..... | 1 | .11 | 9-C | | | |
| 76 | 76 | Suction Elbow Throttle Valve..... | 1 | .04 | DJ76A | | | |
| 448 | 448 | Suction Elbow Throttle Valve Spring..... | 1 | | #448 | | | |
| | | Suction Elbow Cap Screws..... | 2 | | $\frac{3}{8}$ x $\frac{1}{2}$ | | | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | | | |
|-------------------------------------|--------------------------------------|---|---|-------------|----------|---------|-------------|----------|--------|-------------|----------|--------|-------------|--------|------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | |
| 9-C *9 | NAME OF PART | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | | |
| | | 9-C Suction Valve. | | | | | | | | | | | | | |
| | | 9 | Suction Valve..... | 1 | DJ9 | .53 | 1 | ZB410 | .97 | 1 | ZC410 | 1.06 | 1 | ZC410 | .65 |
| | | 122A | Suction Valve Spring Collar Lock..... | 1 | | .45 | 1 | #750A | .08 | 1 | ZBA122A | | 1 | #749A | .08 |
| | | 310 | Suction Valve Spring..... | 1 | #648 | .08 | 1 | ZB121 | .08 | 1 | ZB121 | .08 | 1 | ZB121 | .08 |
| | | 656 | Suction Valve Spring..... | 1 | | | 1 | ZB88 | .02 | 1 | ZB88 | .02 | 1 | ZB88 | .02 |
| | | 121 | Suction Valve Spring Collar..... | 1 | ½ x ½ | | 1 | ZB120 | .25 | 1 | ZB120 | .25 | 1 | ZB120 | .25 |
| 88 | Suction Valve Spring Collar Pin..... | 1 | ½ x ½ | | | | | | | | | | | | |
| 120 | Suction Valve Friction Spring..... | 1 | | | | | | | | | | | | | |
| 10-C *10 | NAME OF PART | 10-C Exhaust Valve Complete. | | | | | | | | | | | | | |
| | | 10 | Exhaust Valve..... | 1 | DJ10 | .79 | 1 | ZB410 | .74 | 1 | ZC410 | .91 | 1 | ZC410 | .68 |
| | | 122 | Exhaust Valve Spring Collar Lock..... | 1 | | .50 | 1 | ZB11 | .04 | 1 | ZBA122 | | 1 | ZBA122 | |
| | | 11 | Exhaust Valve Spring Collar..... | 1 | DJ11 | .23 | 1 | ½ x ½ | | 1 | ½ x ½ | | 1 | ½ x ½ | |
| | | 309 | Exhaust Valve Spring Collar Cotter..... | 1 | ½ x ½ | | 1 | 717A | .02 | 1 | 717A | .02 | 1 | 759A | .15 |
| | | 317 | Exhaust Valve Spring..... | 1 | | | 1 | | | 1 | | | 1 | | |
| | | 476 | Exhaust Valve Spring..... | 1 | #476B | .06 | | | | | | | | | |
| 12 | NAME OF PART | Main Bearing Caps. | | | | | | | | | | | | | |
| | | 2 | Main Bearing Caps..... | 2 | DJ12 | .46 | 2 | ZB12 | .65 | 2 | ZC12 | 1.14 | 2 | ZC12 | 1.14 |
| | | 4 | Main Bearing Cap Cap Screws..... | 4 | ½ x 1½ | .06 | 4 | ½ x 1½ | .06 | 4 | ½ x 2¼ | .11 | 4 | ½ x 2¼ | .11 |
| 4 | Main Bearing Cap Lock Washers..... | 4 | ½ | .02 | 4 | ½ | .02 | 4 | ½ | .02 | 4 | ½ | .02 | | |
| 13 | NAME OF PART | Flywheel Opposite Governor with..... | | | | | | | | | | | | | |
| | | 1 | Flywheel Clamp Bolt with Nut..... | 1 | DJ13 | 6.60 | 1 | ZB13B | | 1 | ZC13 | | 1 | ZC13 | |
| | | 1 | Flywheel Gib Head Key..... | 1 | ½ x 4 | | 1 | ½ x 5¼ | | 1 | ½ x 6¼ | | 1 | ½ x 6¼ | |

SUMTER GEAR DRIVEN MAGNETO

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | | |
|-------------------------------------|-------------|---|----------------|-------------|----------|-----------------|-------------|----------|-----------------|-------------|----------|--------|-------------|--|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| 13A | | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | | |
| | | NAME OF PART | | | | | | | | | | | | |
| | | 1 | DJ13A ½ x 4 | 6.60 | 1 | ZB13C ⅝ x 5¼ | 11.20 | 1 | ZC13A ¾ x 6¾ | 21.70 | 1 | | | |
| | | 1 | | | 1 | | | 1 | | | | | | |
| 1 | | 1 | | | 1 | | | | | | | | | |
| A14 | | 1 | VB14B | 1.25 | | | | | | | | | | |
| 14C | | 1 | | 1.14 | 1 | | 1.52 | 1 | | 1.90 | | | | |
| 15 | 264 104 | One Piece Starter Crank, for Engines with Crankshaft turned down, previous to #160361 Starter Crank. | | | | | | | | | | | | |
| | | Starter Crank After 1½ H. P. Engine #160361 For Repair, see Group 728A-C. | | | | | | | | | | | | |
| | | 1 | DJ15A | 1.71 | | | | | | | | | | |
| | | 1 | 23ZK | | | | | | | | | | | |
| | | 4 | 5# F.H. | | | | | | | | | | | |
| | | 1 | ZB44 | | | | | | | | | | | |
| | | 1 | ZB44 | | | | | | | | | | | |
| 2 | DJ104 | | | | | | | | | | | | | |
| 4 | 4#F.H. | | | | | | | | | | | | | |
| 15 | 15 | 4 | ¼ x ½ | .02 | | | | | | | | | | |
| | | 4 | ¼ | | | | | | | | | | | |
| | | Fuel Tank Strap Stove Bolts. | | | | | | | | | | | | |
| | | Fuel Tank Strap Lock Washers. | | | | | | | | | | | | |
| | | Fuel Tank. | | | | | | | | | | | | |
| | | Fuel Tank Flange. | | | | | | | | | | | | |
| | | Fuel Tank Flange Flat Head Rivets. | | | | | | | | | | | | |
| Filler Opening Screw Neck. | | | | | | | | | | | | | | |

1 1/2, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Arranged Numerically | Repair Nos. | NAME OF PART | 1 1/2 H. P. | | 3 H. P. | | 6 H. P. | |
|----------------------|-------------|---|-------------|-------------|----------|-------------|----------|-------------|
| | | | No. Used | Price, Each | No. Used | Price, Each | No. Used | Price, Each |
| 44 | | Filler Opening Cap..... | | | | | | |
| 49 | | Filler Opening Cap Handle..... | | | | | | |
| | | Fuel Tank Drain Flanges..... | | | | | | 2.38 |
| | | Fuel Tank Drain Flange Flat Head Rivets..... | | | | | | |
| | | Fuel Tank Drain Flange Pipe Plugs..... | | | | | | |
| 16 | | Oil Shield Always Fitted With..... | | | | | | |
| | | Oil Shield Clip..... | 1 | .67 | 1 | .87 | 1 | 1.06 |
| | | Oil Shield R. H. M. Screws..... | 1 | .02 | 1 | .02 | 1 | .02 |
| | | Oil Shield Stove Bolt..... | 2 | | 1 | .02 | 1 | .02 |
| | | Oil Shield Stove Bolt Lock Washer..... | | | | | | |
| 17 | | Piston Pin Bushing..... | 1 | .46 | 1 | .82 | 1 | 1.06 |
| 18-C | | 18-C Connecting Rod..... | | | | | | |
| 18 | | Connecting Rod Always Fitted With..... | 1 | 5.50 | 1 | 7.55 | 1 | 10.20 |
| 17 | | Connecting Rod Piston Pin Bushing..... | 1 | | 1 | | 1 | |
| 20 | | Connecting Rod Cap..... | 1 | 4.25 | 1 | 5.90 | 1 | 7.35 |
| 110 | | Connecting Rod Shims (Thick) Price Per Set..... | 1 | | 1 | | 1 | |
| 110A | | Connecting Rod Shims (Thin) Price Per Set..... | 4 | .04 | 4 | .04 | 4 | .04 |
| 150 | | Connecting Rod Bolts With Cotter's..... | 2 | .08 | 2 | .08 | 2 | .08 |
| 151 | | Connecting Rod Castellated Nuts..... | 2 | .17 | 2 | .19 | 2 | .29 |
| | | Connecting Rod Bolt Cotter's..... | 2 | .06 | 2 | .06 | 2 | .11 |
| 176 | | Connecting Rod Crank Pin Liners (Halves)..... | 2 | .68 | 2 | 1.03 | 2 | 1.09 |
| | | 19-C Fuel Check Valve..... | 1 Pr | | 1 Pr | | 1 Pr | |
| *19-C | | Fuel Check Valve Body with Gauze Strainer..... | 1 | .63 | | | | |
| 19 | | Fuel Check Valve..... | 1 | .46 | | | | |
| 90 | | Fuel Check Valve..... | 1 | .17 | | | | |

SUMTER FUELERS, BUTAWAY AND
GEAR DRIVEN MAGNETO

1 1/2, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

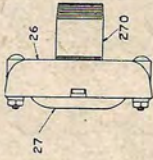
| Repair Nos. Arranged Numerically | Group Parts | 1 1/2 H. P. | | | | 3 H. P. | | | 6 H. P. | | | | |
|-------------------------------------|-------------|------------------|--------|-------------|------------------|-----------------------|---------------------------|----------|-------------|---------------------|-------|------------------------------|------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | | |
| 20 | | 1 | DJ20 | 1.14 | 1 | ZB20 | 1.41 | 1 | ZC20 | 1.90 | | | |
| 21 | | | | | 1 | | | .38 | | | .42 | | |
| 21 | | 21 | | | 1 | ZB21 1/2 x 2 1/8 | | .38 | 1 1 1 | ZC21 1/2 x 2 1/8 | | .42 | |
| 22 | | | | | 1 Pr. | DJ22 | .68 | 1 Pr. | ZB23 | 1.26 | 1 Pr. | ZC23 | 1.90 |
| 23 | | | | | 1 Pr. | DJ23 | .68 | 1 Pr. | ZB23 | 1.26 | 1 Pr. | ZC23 | 1.90 |
| 24 | | 24 | | | | | | | | | 1 | | .38 |
| 24 | | 24 | | | | | | | | | 1 | ZB24 1/2 x 1 1/2 x 1/8 | .38 |
| 24-C | | 24 47 19-C | | | 1 1 1 1 | DJ24B DJ47 19-C | 1.06 .34 .10 .63 | | | | | | |
| 25 | | | | | 1 | DJ25 | 6.80 | | | | | | |

The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group.

NAME OF PART

Connecting Rod Cap.....
 21 Fuel Overflow Pipe.....
 Effective on 3 H. P. Engine #185864.
 Effective on 6 H. P. Engine #185978.
 Fuel Overflow Pipe.....
 Fuel Overflow Pipe Nipple.....
 Fuel Overflow Pipe Elbow.....
 Main Bearing Liner, Upper (Furnished in pairs only).....
 Main Bearing Liner, Lower (Furnished in pairs only).....
 Fuel Suction Pipe.....
 Effective on 3 H. P. Engine #185864.
 Effective on 6 H. P. Engine #185978.
 Fuel Suction Pipe.....
 Fuel Suction Pipe Nipple.....
 Fuel Suction Pipe Elbow.....
 24-C Fuel Suction Pipe.....
 Fuel Suction Pipe.....
 Fuel Suction Pipe Bushing.....
 Fuel Check Valve Complete.....
 Crankshaft with End Turned Down for Starter Crank Previous to Engine #160361.
 Crankshaft.....

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO

| Repair Nos. Arranged Numerically | Group Parts | NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|-------------|---|----------|--------|-------------|----------|---------|-------------|----------|---------|-------------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 25A | 25A | Crankshaft effective on 1½ H. P. Eng. #160361. Crankshaft..... | 1 | ZAA25 | 5.75 | 1 | ZBA25 | 11.00 | 1 | ZCA25 | 16.25 |
| 26-C | | 26-C Silencer..... Silencer..... Previous to 3 H. P. Eng. #185864. Previous to 6 H. P. Eng. #185978. | | | | 1 | | | 1 | | |
| | |  | | | | | | | | | |
| 26 | | Silencer Base..... | | | | 1 | 24NV | .91 | 1 | ZC26 | 1.90 |
| 27 | 270 | Silencer Cap..... | | | | 1 | 24NX | .23 | 1 | ZC27 | .63 |
| | | Silencer Nipple..... | | | | 1 | 1½ x 2½ | .11 | 1 | 2 x 3 | .29 |
| | | Silencer Stove Bolts..... | | | | 2 | ½ x 1½ | .02 | 3 | 1½ x 2½ | .02 |
| | | Note: —This silencer complete will not be furnished for repairs. Silencer 26A will be furnished. | | | | | | | | | |
| 26A | | Silencer..... | | | | 1 | | | 1 | | |
| | | Effective on 3 H. P. Engine #185864. Effective on 6 H. P. Engine #185978. | | | | | | | | | |
| 26A | | Silencer Base..... | | | | 1 | ZB26 | | 1 | ZC26A | 1.03 |
| | | Silencer Cap..... | | | | 1 | ZB27 | .72 | 1 | ZC27A | |
| | | Silencer Rivets..... | | | | | | | | | |
| | | Silencer Nipple..... | | | | 1 | ZB98 | | 1 | ZC98 | |

SUMTER SUMTER ROTARY AND DRILL LAVING MAGNETO

1 1/2, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1 1/2 H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|--|-------------|--|--------|-------------|----------|---------|-------------|----------|--------|-------------|----------|--------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| <p>The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group.</p> <p>NAME OF PART</p> | | | | | | | | | | | | | |
| 53-C | | | | | | | | | | | | | |
| 53 | 53 | Igniter Trip Carrier..... | | | | | | | | | | | |
| | | Igniter Trip Carrier S. A. E. Cap Screw..... | | | | | | | | | | | |
| *54 | 54 | Igniter Trip Blade..... | | | | | | | | | | | |
| | 52 | Igniter Trip Blade Carrier..... | | | | | | | | | | | |
| | 140 | Igniter Trip Blade Carrier Fulcrum Pin..... | | | | | | | | | | | |
| | | Igniter Trip Blade Carrier Fulcrum Pin Washer..... | | | | | | | | | | | |
| | | Igniter Trip Blade Carrier Fulcrum Pin Cotter..... | | | | | | | | | | | |
| | | Igniter Trip Blade Cap Screw..... | | | | | | | | | | | |
| | | Igniter Trip Blade Cap Screw Plate Washer..... | | | | | | | | | | | |
| | | Igniter Trip Blade Cap Screw Lock Washer..... | | | | | | | | | | | |
| | 57 | Igniter Trip Blade Adjusting Screw..... | | | | | | | | | | | |
| *54A | | Igniter Trip Rod Blade..... | 1 | DJ54A | .08 | | | | | | | | |
| 55 | | Exhaust Valve Rocker Headless Screw..... | | | | | | | | | | | |
| | | Exhaust Valve Rocker Headless Screw Jamb Nut..... | | | | | | | | | | | |
| 57 | | Igniter Trip Blade Adjusting Screw..... | | | | | | | | | | | |
| 57A | | Igniter Trip Rod Spring..... | 1 | DJ57A | .10 | | | | | | | | |
| 58-C | | | | | | | | | | | | | |
| 58 | | 58-C Exhaust Rod Rocker Fulcrum Pin | | | | | | | | | | | |
| | | Exhaust Rod Rocker Fulcrum Pin..... | 1 | DJ58 | .29 | | | | | | | | |
| | | Exhaust Rod Rocker Fulcrum Pin Nut..... | 1 | 15UK | .02 | | | | | | | | |
| | 251 | Exhaust Rod Rocker Fulcrum Pin Washer..... | 1 | 3/2 x 1/8 | .04 | | | | | | | | |
| | 63 | Exhaust Rod Rocker Fulcrum Pin Washer..... | 1 | | | | | | | | | | |
| | | Exhaust Rod Rocker Fulcrum Pin Cotter..... | 1 | | | | | | | | | | |
| 60 | | Reservoir Cover..... | | | | | | | | | | | |
| 62 | | Sub-base..... | | | | | | | | | | | |
| | | Previous to 3 H. P. engine 185864. | | | | | | | | | | | |
| | | Previous to 6 H. P. engine #185978. | | | | | | | | | | | |

WORTH SUMTER ROTARY AND
GRU... MAGNETO

1 $\frac{1}{2}$, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1 $\frac{1}{2}$ H. P. | | | 3 H. P. | | | 6 H. P. | | | | |
|-------------------------------------|-------------|---|-----------------------|--------|-------------|----------|-------------------------------|-------------|----------|--|-------------|-------|--|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | |
| | | NAME OF PART | | | | | | | | | | | |
| 62A | | Sub-base..... Effective on 3 H. P. engine #185864. Effective on 6 H. P. engine #185978. | | | | | ZB62C | 7.70 | | ZC62C | 1 | 12.60 | |
| 63 | | Exhaust Rod Rocker Fulcrum Pin Washer..... | | | | | ZB63 | .04 | | ZB63 | 1 | .04 | |
| 64 | | Fuel Pump Body—Not Furnished for Repairs. Reservoir 4A-C will be sent. | | | | | | | | | | | |
| 65-C | 65-C | Fuel Pump Plunger..... | | | | | | .80 | | | 1 | .80 | |
| 65 | 65 | Fuel Pump Plunger..... | | | | | ZB65C | .68 | | ZB65C | 1 | .68 | |
| | 302 | Fuel Pump Plunger Ball..... | | | | | | .04 | | | 1 | .04 | |
| | 69 | Fuel Pump Plunger Cap..... | | | | | ZB69A | .08 | | ZB69A | 1 | .08 | |
| 66 | | Fuel Pump Lever—Having Bent Arm, Previous to 3 H. P. Engine #290867. Fuel Pump Lever Previous to 6 H. P. engine #319858..... | | | | | ZB66E | .15 | | ZC66 | 1 | .15 | |
| 66A | | Fuel Pump Lever Having Straight Arm. Effective on 3 H. P. Engine #290867. Fuel Pump Lever 6 H. P. engine #319858..... | | | | | ZB66F | .15 | | ZC66A | 1 | .15 | |
| 67 | | Fuel Pump Lever Pin..... Fuel Pump Lever Pin Cotter..... | | | | | | .11 | | #424C $\frac{1}{16} \times \frac{3}{8}$ | 1 2 | .11 | |
| 68 | | Reservoir Check Ball Seat Used From..... | | | | | #185864 to 259188 ZB68A | .34 | | #185978 to 259154 ZB68A | 1 | .34 | |
| 68 | | Reservoir Check Ball Seat..... | | | | | | | | | | | |
| 69 | | Fuel Pump Plunger Cap..... | | | | | ZB69A | .08 | | ZB69A | 1 | .08 | |

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

87
9625A

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | | |
|-------------|-------------|----------------------|---|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|
| | | Arranged Numerically | NAME OF PART | No. Used | Price, Each | Symbol | No. Used | Price, Each | Symbol | No. Used | Price, Each | Symbol | No. Used | Price, Each |
| 71 | | | Piston Pin Lock Pin..... | 1 | .04 | DJ71A | 1 | .04 | DJ71A | 1 | .04 | DJ71A | 1 | .04 |
| | | | Piston Pin Lock Pin Headless Set Screw..... | 1 | .04 | ½ x ⅝ #10 | 1 | .04 | ½ x ⅝ #10 | 1 | .04 | ½ x ⅝ #10 | 1 | .04 |
| | | | Piston Pin Lock Pin Lock Washer..... | 1 | .02 | ½ x ⅝ #10 | 1 | .02 | ½ x ⅝ #10 | 1 | .02 | ½ x ⅝ #10 | 1 | .02 |
| | | | Note.—The above piston lock pin parts will not be sent for repairs but will be replaced by 71A with cotter. | | | | | | | | | | | |
| 71A | | | Piston Pin Lock Pin—with..... | 1 | .06 | ZAA71A | 1 | .06 | ZAA71A | 1 | .06 | ZAA71A | 1 | .06 |
| 73 | | | Piston Pin Lock Pin Cotter..... | 1 | | ½ x ⅝ | 1 | | ½ x ⅝ | 1 | | ½ x ⅝ | 1 | |
| | | | Engine Sub-Base..... | 1 | 2.85 | DJ73A | 1 | 2.85 | DJ73A | 1 | 2.85 | DJ73A | 1 | 2.85 |
| | | | Engine to Sub-Base Machine Bolts..... | 4 | .06 | ½ x 1¼ | 4 | .06 | ½ x 1¼ | 4 | .06 | ½ x 1¼ | 4 | .06 |
| 75 | | | Fuel Pump Lever Lockout..... | | | | | | | | | | | |
| 76 | | | Fuel Pump Lever Lockout Cotter..... | | | | | | | | | | | |
| 78 | | | Fuel Throttle Valve..... | 1 | .11 | DJ76A | 1 | .11 | DJ76A | 1 | .11 | DJ76A | 1 | .11 |
| 79 | | | Engine Base Drain..... | 1 | .04 | ½ | 1 | .04 | ½ | 1 | .04 | ½ | 1 | .04 |
| 80 | | | Governor Weight Fulcrum Pin..... | | | | | | | | | | | |
| 81 | | | Governor Weight Fulcrum Pin Cotter..... | | | | | | | | | | | |
| 82 | | | Governor Hub..... | | | | | | | | | | | |
| 83 | | | Governor Weights..... | | | | | | | | | | | |
| 85 | | | Governor Lever..... | | | | | | | | | | | |
| | | | Governor Lever Fulcrum Pin..... | | | | | | | | | | | |
| | | | Governor Lever Fulcrum Pin Cotter..... | | | | | | | | | | | |
| 90 | | | Fuel Check Valve..... | 1 | .17 | DJ90A | 1 | .17 | DJ90A | 1 | .17 | DJ90A | 1 | .17 |
| 92-C | | | 92-C Governor Bracket..... | | | | | | | | | | | |
| 81 | | | Governor Bracket..... | 1 | 8.00 | ZB92G | 1 | 8.00 | ZB92G | 1 | 8.00 | ZB92G | 1 | 8.00 |
| 82 | | | Governor Hub..... | 1 | 2.45 | ZB81H | 1 | 2.45 | ZB81H | 1 | 2.45 | ZB81H | 1 | 2.45 |
| 79 | | | Governor Weights..... | 1 | 2.13 | ZB82E | 1 | 2.13 | ZB82E | 1 | 2.13 | ZB82E | 1 | 2.13 |
| | | | Governor Weights Fulcrum Pins..... | 2 | .27 | ZB82E | 2 | .27 | ZB82E | 2 | .27 | ZB82E | 2 | .27 |
| | | | Governor Weights Fulcrum Pin Cotter..... | 2 | .11 | ZB79A | 2 | .11 | ZB79A | 2 | .11 | ZB79A | 2 | .11 |
| | | | | 4 | | ½ x ⅝ | 4 | | ½ x ⅝ | 4 | | ½ x ⅝ | 4 | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. NAME OF PART | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|---|----------|--------|-------------|----------|-------------|-------------|----------|-------------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 33 | Governor Weight Drag Spring..... Screw..... Governor Weight Drag Spring Adjusting | | | | 1 | ZB33 | .10 | 1 | ZB33 | .10 |
| 308 | Governor Weight Drag Spring Adj. Scr. Nut. | | | | 1 | 10-24 x 5/8 | .02 | 1 | 10-24 x 5/8 | .02 |
| 156 | Governor Weight Spring..... | | | | 1 | #763 | .02 | 1 | #763 | .04 |
| 80 | Governor Weight Spring Adjusting Screw..... | | | | 1 | ZB156A | .08 | 1 | ZB156A | .08 |
| 83 | Governor Sleeve Pin..... | | | | 1 | ZB80E | .38 | 1 | ZB80E | .38 |
| 85 | Governor Lever..... | | | | 1 | ZB83B | .40 | 1 | ZB83B | .40 |
| 48 | Governor Lever Fulcrum Pin..... | | | | 1 | ZB85C | .08 | 1 | ZB85C | .08 |
| 209-C | Governor Lever Fulcrum Pin Cotters..... | | | | 2 | 1/8 x 3/8 | 1.01 | 2 | 1/8 x 3/8 | 1.01 |
| 325 | Speed Regulator..... | | | | 1 | ZB48A | .49 | 1 | ZB48A | .49 |
| | Speed Regulator Fulcrum Pin..... | | | | 1 | 209-C | .04 | 1 | 209-C | .04 |
| | | | | | | #325 | | | #325 | |
| 101-C | 101-C Cylinder and Base..... | | | | 1 | ZB101A | 39.30 | 1 | ZC101A | 62.10 |
| 101 | Cylinder and Base..... | | | | 1 | ZB12 | | 1 | ZC12 | |
| 12 | Main Bearing Caps..... | | | | 2 | x 1 1/2 | | 2 | x 2 1/4 | |
| | Main Bearing Cap Screws..... | | | | 2 | | | 2 | | |
| | Main Bearing Cap Lock Washers..... | | | | 4 | | | 4 | | |
| 126 | Main Bearing Shims..... | | | | 8 | ZB126A | 36.80 | 8 | ZC126A | 58.30 |
| 327 | Cylinder Drain Plug..... | | | | 1 | | | 1 | | |
| 328 | Base Drain Plug..... | | | | 1 | | | 1 | | |
| 301 | Cylinder to Igniter Stud..... | | | | 1 | ZB301 | | 1 | ZB301 | |
| 312 | Cylinder to Head Stud (Long) | | | | 1 | x 4 1/4 | | 1 | x 5 1/4 | |
| 313 | Cylinder to Head Stud (Short) | | | | 3 | x 4 1/4 | | 3 | x 5 1/4 | |
| 412 | Magneto Bracket..... | | | | 1 | ZB412 | | 1 | ZC412 | |
| 22 | Magneto Bracket Cap Screws..... | | | | 2 | x 2 1/4 | .63 | 2 | x 2 7/8 | .95 |
| 23 | Main Bearing Liners, Upper..... | | | | 2 | ZB23 | .63 | 2 | ZC23 | .95 |
| | Main Bearing Liners, Lower..... | | | | 2 | ZB23 | | 2 | ZC23 | |

1 1/2, 3 AND 6 H. P. "Z" ENGINES WITH SUMTNER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1 1/2 H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------------------------------|-------------|-------------|-------------|-------------|----------|-------------|-------------|----------|-------------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 103 | | 1 | DJ103 | .10 | 1 | ZB104 | .15 | 1 | ZC104 | .15 |
| 104 | | 2 | DJ104 | .08 | 2 | 1/2 x 3 1/2 | .04 | 2 | 1/2 x 3 1/2 | .04 |
| 105 | | 4 | 1/4 x 1/2 | .02 | 1 | ZB105 | .61 | 1 | ZB105 | .61 |
| 106 | | 3 | DJ106 | .02 | 3 | ZB106 | .04 | 3 | ZB106 | .04 |
| 110 | | 3 | 3/8 x 2 1/4 | .04 | 3 | 1/2 x 2 1/2 | .08 | 4 | ZC110 | .04 |
| 110A | | 4 | DJ110 | .04 | 4 | ZB110 | .04 | 14 | ZC110A | .08 |
| 117 | | 12 | DJ110A | .08 | 12 | ZB110A | .08 | 1 | 24SP | 4.75 |
| *120 | | 1 | DJ117A | 1.14 | 1 | ZB117A | 1.75 | 1 | ZB120 | .25 |
| *121 | | 1 | | | 1 | ZB120 | .25 | 1 | ZB121 | .08 |
| 126 | | 8 | DJ126A | .08 | 8 | ZB126A | .08 | 8 | ZC126A | .08 |
| 130 | | 1 | DJ130 | .10 | 1 | ZB130 | .15 | 1 | ZC130 | .23 |
| 131 | | 1 | | | 2 | 1/4 | .04 | 2 | 1/4 | .04 |
| *134 | | 1 | DJ134A | .61 | 1 | ZB134B | .68 | 1 | ZB134B | .68 |
| *134A | | 1 | DJ134B | .61 | 1 | ZB135B | .51 | 1 | ZB135B | .51 |
| 135 | | 1 | DJ135A | .38 | 1 | 1/8 x 1 1/8 | .04 | 1 | 1/8 x 1 1/8 | .04 |
| 135A | | 1 | DJ135B | .04 | 1 | ZB136 | .76 | 1 | ZB136 | .76 |
| *136 | | 1 | DJ136A | .63 | 1 | | | 1 | | |
| *136A | 258 | 1 | DJ136B | 1.18 | 1 | | | 1 | | |
| 137 | | 1 | DJ137A | .63 | 1 | ZB137 | .61 | 1 | ZB137 | .61 |
| 137A | | 1 | DJ137B | .63 | 1 | | | 1 | | |
| | | 2 | | | 2 | | | 2 | | |

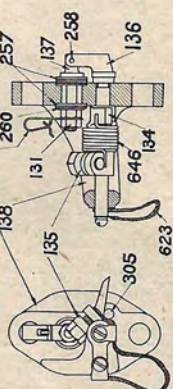
The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group.

NAME OF PART

Suction Elbow Gasket.....
 Fuel Tank Straps.....
 Fuel Tank Strap Stove Bolts.....
 Fuel Tank Strap Carriage Bolts.....
 Fuel Reservoir Overflow Valve.....
 Pulley Clips.....
 Pulley Clips Machine Bolts.....
 Connecting Rod Shims (Thick), Price per set.....
 Connecting Rod Shims (Thin), Price per set.....
 Pulley.....
 Suction Valve Drag Spring.....
 Suction Valve Spring Collar.....
 Main Bearing Shims, Price per set.....
 Magneto to Igniter Wire.....
 Igniter Fixed Electrode Jamb Nuts.....
 Igniter Movable Electrode Pawl.....
 Igniter Movable Electrode Pawl.....
 Igniter Movable Electrode Collar.....
 Igniter Movable Electrode Collar Cap Screw.....
 Igniter Movable Electrode Collar.....
 Igniter Movable Electrode—with.....
 Igniter Movable Electrode Point.....
 Igniter Movable Electrode—with.....
 Igniter Movable Electrode Point.....
 Igniter Movable Electrode Collar.....
 Igniter Movable Electrode Collar Taper Pin.....
 Igniter Fixed Electrode—with.....
 Igniter Fixed Electrode Point.....
 Igniter Fixed Electrode—with.....
 Igniter Fixed Electrode Point.....
 Igniter Fixed Electrode Nuts.....

WORTH SUMTNER ROTARY AND
 OPERATING MAGNETO

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|-------------------------------------|-------------|--|----------|-------------|----------|-------------|----------|-------------|
| | | | No. Used | Price, Each | No. Used | Price, Each | No. Used | Price, Each |
| 138-C | | <p>The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group.</p> <p>138-C Igniter Complete. Previous to 1½ H. P. Engine #286859.</p>  | 1 | 4.26 | | | | |
| 138 | 138 | Igniter Body with..... | 1 | 1.71 | | | | |
| | 305 | Movable Electrode Pawl Stop Pin..... | 1 | .63 | | | | |
| | 136 | Movable Electrode..... | 1 | .61 | | | | |
| | 134 | Movable Electrode Pawl..... | 1 | .06 | | | | |
| | 646 | Movable Electrode Pawl Spring..... | 1 | .04 | | | | |
| | 623 | Movable Electrode to Body Connector..... | 1 | .02 | | | | |
| | | M. Screw..... | 1 | .02 | | | | |
| | | Movable Electrode to Body Connector Lock Washer..... | 1 | .02 | | | | |
| | 135 | Movable Electrode Collar..... | 1 | .38 | | | | |
| | | Movable Electrode Collar Cap Screw..... | 1 | .63 | | | | |
| | 137 | Fixed Electrode..... | 1 | .02 | | | | |
| | 257 | Fixed Electrode Mica Washers..... | 2 | .08 | | | | |
| | 259 | Fixed Electrode Binding Post..... | 1 | .02 | | | | |
| | 260 | Fixed Electrode Steel Washer..... | 1 | .02 | | | | |
| | 131 | Fixed Electrode Jamb Nuts..... | 2 | .04 | | | | |

Note: This igniter body or igniter complete will be replaced by 138A-C for repairs. Other small parts will be furnished for repairs when ordered.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. | Group Parts | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | | |
|---|-------------|---|--------|-------------|----------|--------|-------------|----------|--------|-------------|------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | |
| NAME OF PART | | | | | | | | | | | |
| *138-C | 138C | 138-C Igniter Complete | | | | | | | | | |
| | 136 | Igniter Body with..... | 1 | ZB138 | 5.43 | 1 | ZB138 | 5.43 | 1 | ZB138 | 5.43 |
| | 134 | Movable Electrode Pawl Stop Pin..... | 1 | #405 | 2.51 | 1 | #405 | 2.51 | 1 | #405 | 2.51 |
| | 323 | Movable Electrode Pawl..... | 1 | ZB136 | .76 | 1 | ZB136 | .76 | 1 | ZB136 | .76 |
| | 623 | Movable Electrode Pawl Spring..... | 1 | ZB134B | .68 | 1 | ZB134B | .68 | 1 | ZB134B | .68 |
| | | Movable Electrode to Body Connector..... | 1 | #743B | .08 | 1 | #743B | .08 | 1 | #743B | .08 |
| | | Movable Electrode to Body Connector R. H. M. Screw..... | 1 | VAI75B | .04 | 1 | VAI75B | .04 | 1 | VAI75B | .04 |
| | | Movable Electrode to Body Connector Lock Washer..... | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 |
| | 135 | Movable Electrode Collar..... | 1 | 1/16 | .02 | 1 | 1/16 | .02 | 1 | 1/16 | .02 |
| | 137 | Movable Electrode Collar Cap Screw..... | 1 | ZB135B | .51 | 1 | ZB135B | .51 | 1 | ZB135B | .51 |
| | 257 | Fixed Electrode..... | 1 | 1/8 x 1/8 | .61 | 1 | 1/8 x 1/8 | .61 | 1 | 1/8 x 1/8 | .61 |
| | 259 | Fixed Electrode Mica Washers..... | 2 | ZB137 | .02 | 2 | ZB137 | .02 | 2 | ZB137 | .02 |
| | 260 | Fixed Electrode Binding Post..... | 1 | 2WZ | .08 | 1 | 2WZ | .08 | 1 | 2WZ | .08 |
| | 131 | Fixed Electrode Steel Washer..... | 1 | #24 | .02 | 1 | #24 | .02 | 1 | #24 | .02 |
| | | Fixed Electrode Jamb Nuts..... | 2 | 1/4 x 1/8 | .04 | 2 | 1/4 x 1/8 | .04 | 2 | 1/4 x 1/8 | .04 |
| *138A-C | 138A | 138A-C Igniter Complete | | | | | | | | | |
| | 138A | Effective on 1½ H. P. Engine #268859..... | 1 | | 4.28 | | | 4.28 | | | 4.28 |
| | 305 | Igniter Body with..... | 1 | DJ138D | 1.71 | 1 | DJ138D | 1.71 | 1 | DJ138D | 1.71 |
| | 136A | Movable Electrode Pawl Stop..... | 1 | #414 | | 1 | #414 | | 1 | #414 | |
| | 258 | Movable Electrode with..... | 1 | DJ136B | | 1 | DJ136B | | 1 | DJ136B | |
| | 135A | Movable Electrode Point..... | 1 | | 1.18 | 1 | | 1.18 | 1 | | 1.18 |
| | 134A | Movable Electrode Collar..... | 1 | DJ135B | | 1 | DJ135B | | 1 | DJ135B | |
| | 833 | Movable Electrode Collar Taper Pin..... | 1 | #2 x 1 1/2 | .61 | 1 | #2 x 1 1/2 | .61 | 1 | #2 x 1 1/2 | .61 |
| | 845 | Movable Electrode Pawl..... | 1 | DJ134B | .08 | 1 | DJ134B | .08 | 1 | DJ134B | .08 |
| | 137A | Movable Electrode Pawl Spring..... | 1 | #833C | .04 | 1 | #833C | .04 | 1 | #833C | .04 |
| | 257A | Movable Electrode Spring..... | 1 | #845 | .63 | 1 | #845 | .63 | 1 | #845 | .63 |
| | | Fixed Electrode with Point and Nuts..... | 1 | DJ137B | .02 | 1 | DJ137B | .02 | 1 | DJ137B | .02 |
| | | Fixed Electrode Fibre Washer..... | 1 | DJ129 | .02 | 1 | DJ129 | .02 | 1 | DJ129 | .02 |
| | | Fixed Electrode Steel Washer..... | 1 | DJ145 | .02 | 1 | DJ145 | .02 | 1 | DJ145 | .02 |

BUSH SUMTER ROTARY AND
 OPERATING MAGNETO
 CO.

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

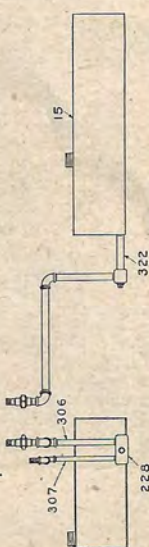
| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|-------------------------------------|-------------|---|--------|-------------|----------|---------|-------------|----------|--------|-------------|----------|--------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| 174 | | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | |
| *176 | | NAME OF PART | | | | | | | | | | | |
| *190B | | Suction Elbow Priming Cup—Used Previous to about Engine #166000 | | | | | | | | | | | |
| | | Crank Pin Liner (Halves) | | | | | | | | | | | |
| | | Cylinder Head Gasket | | | | | | | | | | | |
| | | Reservoir to Head Gasket | | | | | | | | | | | |
| 192 | | Name Plate | | | | | | | | | | | |
| 195 | | Name Plate R. H. M. Screws | | | | | | | | | | | |
| | | Name Plate Rubber Washers | | | | | | | | | | | |
| | | Butterfly Valve and Shaft with Valve Soldered to Shaft | | | | | | | | | | | |
| | | Previous to 3 H. P. Engine #288351 | | | | | | | | | | | |
| | | Previous to 6 H. P. Engine #287103 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 201 | | Butterfly Valve Shaft Washer | | | | | | | | | | | |
| 203 | | Butterfly Valve | | | | | | | | | | | |
| 204 | | Butterfly Valve Shaft | | | | | | | | | | | |
| | 206 | Butterfly Valve Shaft Lever | | | | | | | | | | | |
| | | Butterfly Valve Shaft Lever R. H. M. Screws | | | | | | | | | | | |
| | 207 | Butterfly Valve Shaft Bushings | | | | | | | | | | | |
| | | For repairs on 204 Shaft, 203A-C Butterfly Valve complete will be furnished. | | | | | | | | | | | |

BUSH SUMTER ROTARY AND
 GRINDING MAGNETO
 1916

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|-------------|-------------|----------------------|--|----------|--------|-------------|----------|------------|-------------|----------|-----------|-------------|--|
| | | Arranged Numerically | NAME OF PART | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | |
| 203A-C | | | 203A-C Butterfly Valve Complete..... Effective on 3 H. P. Engine #288351. Effective on 6 H. P. Engine #287103. | 1 | | 1.14 | 1 | | 1.14 | 1 | | 1.14 | |
| 203A | 203A | | Butterfly Valve..... | 1 | | | 1 | ZB203 | | 1 | ZC203 | .19 | |
| | | | Butterfly Valve Screws..... | 2 | | .19 | 2 | 8/32 x 1½ | | 2 | #8 | .02 | |
| | | | Butterfly Valve Lock Washers..... | 2 | | .02 | 2 | #8 | | 2 | ZB204B | .39 | |
| 204A | 204A | | Butterfly Valve Shaft..... | 1 | | .44 | 1 | ZB206B | | 1 | ZB206B | .44 | |
| 206A | 206A | | Butterfly Valve Shaft Arm..... | 1 | | .04 | 1 | 10/24 x ½ | | 1 | 10/24 x ½ | .04 | |
| | | | Butterfly Valve Shaft Arm Screw..... | 1 | | .02 | 1 | ZB201A | | 1 | ZB201A | .02 | |
| | | | Butterfly Valve Shaft Washer..... | 1 | | | 1 | 1x½ | | 1 | 1x½ | | |
| | | | Butterfly Valve Shaft Rivet..... | 1 | | | 1 | | | 1 | | | |
| 205 | | | Governor Pull Rod with..... | 1 | | .34 | 1 | ZB205B | | 1 | ZC205 | .38 | |
| 206 | | | Governor Pull Rod Cotter..... | 2 | | .44 | 2 | 1/16 x 3/8 | | 2 | ZB206A | .44 | |
| 206A | | | Butterfly Valve Shaft Lever..... | 1 | | .44 | 1 | ZB206B | | 1 | ZB206B | .44 | |
| 207 | | | Butterfly Valve Shaft Lever R. H. M. Screw..... | 1 | | .11 | 1 | 10/24 x ½ | | 1 | 10/24 x ½ | .11 | |
| | | | Butterfly Valve Shaft Bushings..... | 2 | | | 2 | ZB207 | | 2 | ZB207 | | |
| 209-C | | | Speed Regulator..... | 1 | | .49 | 1 | ZB209F | | 1 | ZB209F | .49 | |
| 209 | 209 | | Speed Regulator Lever—with..... | 1 | | .34 | 1 | ZB222A | | 1 | ZB222A | .34 | |
| | | | Speed Regulator Leaf Spring..... | 1 | | .15 | 1 | 1/8 x 3/8 | | 1 | 1/8 x 3/8 | .15 | |
| | | | Speed Regulator Leaf Spring Rivets..... | 1 | | | 1 | ZB224 | | 1 | ZB224 | | |
| | | | Speed Regulator Screw..... | 1 | | .02 | 1 | #325 | | 1 | #325 | .02 | |
| 212 | | | Speed Regulator Fulcrum Pin..... | 1 | | | 1 | | | 1 | | | |
| 217-C | | | Water Throttle Fitting..... | 1 | | 1.20 | 1 | ZB217B | | 1 | ZB217B | 1.20 | |
| 217 | 217 | | Water Throttle Fitting..... | 1 | | .65 | 1 | ZB218B | | 1 | ZB218B | .65 | |
| 218 | 218 | | Water Throttle Tube..... | 1 | | .30 | 1 | ZC219 | | 1 | ZC219 | .30 | |
| 219A | 219A | | Water Throttle..... | 1 | | .19 | 1 | #784 | | 1 | #784 | .19 | |
| 311 | 311 | | Water Throttle Spring..... | 1 | | .06 | 1 | | | 1 | | .06 | |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | | | |
|-------------------------------------|-------------|---|----------|--------------------|-------------|----------|----------------------|-------------|----------|--------|-------------|----------|----------------|-------------|----------------------|------|
| | | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | | |
| 271 | | Oiler Nipple..... | 1 | ¼ x 8½ | .11 | | | | | | | | | 1 | ¼ x 10 | .15 |
| 273-C | | Magneto Complete..... | | | | | | | | | | | | | | |
| 273 | 273 | Sumter Special Magneto..... | 1 | #15 Imp. ¾ x 1½ | .06 | 1 | #25 Satan. ¾ x 1½ | .06 | 2 | ¾ x 1½ | .02 | 2 | ¾ x 1½ | 1 | #25 Satan. ¾ x 1½ | .06 |
| | 142 | Sumter Special Magneto Lock Washers..... | 2 | DJ142 | .99 | 2 | ZB142 | .02 | 2 | ZB142 | 1.06 | 1 | ZC142A | 1 | ZC142A | 1.14 |
| 300 | | Sumter Special Magneto Gear..... | 1 | | | 1 | | | 1 | | | 1 | | 1 | | .04 |
| 301 | | Fuel Pump Plunger Spring..... | | | | | | | | | | | | | | .06 |
| 302 | | Igniter Clamp Stud..... | 1 | | | 1 | #783 ¼ x 2¼ | .06 | 1 | ¼ x 2¼ | .04 | 1 | #783 ¼ x 2¼ | 1 | ¼ x 2¼ | .04 |
| 303 | | Igniter Clamp Stud Nut..... | 1 | | | 1 | ¼ x 2¼ | .04 | 1 | ¼ x 2¼ | .04 | 2 | ¼ x 2¼ | 2 | ¼ x 2¼ | .04 |
| | | Fuel Pump Balls..... | 2 | | | 2 | ¼ | .02 | 2 | ¼ | .04 | 2 | ¼ | 2 | ¼ | .04 |
| | | Fuel Pump Ball Pin..... | 1 | | | 1 | #5 | .02 | 1 | #5 | .02 | 1 | #5 | 1 | #5 | .02 |
| | | Previous to 3 H. P. Engine #185864. Previous to 6 H. P. Engine #185978. | | | | | | | | | | | | | | |
| | |  | | | | | | | | | | | | | | |
| 304 | | Suction Pipe Union (Female Half)..... | | | | | | | | | | | | | | .17 |
| 306 | | Overflow Pipe, Horizontal..... | 1 | | | 1 | ¾ x 9½ | .15 | 1 | ¾ x 4½ | .10 | 1 | ¾ x 7½ | 1 | ¾ x 12½ | .17 |
| | | Overflow Pipe, Vertical..... | 1 | | | 1 | ¾ x 3½ | .08 | 1 | ¾ x 5 | .08 | 1 | ¾ x 5 | 1 | ¾ x 7½ | .11 |
| | | Overflow Pipe, Horizontal..... | 1 | | | 1 | ¾ x 1½ | .04 | 1 | ¾ x 1½ | .04 | 1 | ¾ x 1½ | 1 | ¾ x 1½ | .08 |
| | | Overflow Nipple..... | 1 | | | 1 | ¾ x 1 | .04 | 1 | ¾ x 1 | .04 | 1 | ¾ x 1 | 1 | ¾ x 1 | .04 |
| | | Overflow Union..... | 1 | | | 1 | ¾ x 1 | .04 | 1 | ¾ x 1 | .04 | 1 | ¾ x 1 | 1 | ¾ x 1 | .04 |
| | | Overflow Elbow..... | 1 | | | 1 | ¾ x 1 | .17 | 1 | ¾ x 1 | .17 | 1 | ¾ x 1 | 1 | ¾ x 1 | .17 |
| | | | 2 | | | 2 | ¾ x 1 | .04 | 2 | ¾ x 1 | .04 | 2 | ¾ x 1 | 2 | ¾ x 1 | .04 |

MOORE, SUMTER, ROTARY AND
OSCILLATING MAGNETO
DIV.

Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. Arranged Numerically | Group Parts | 1½ H. P. | | | | 3 H. P. | | | | 6 H. P. | | | |
|-------------------------------------|-------------|---|--------|-------------|----------|-----------|-------------|----------|-----------|-------------|----------|-----------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| | | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | | | | |
| | | NAME OF PART | | | | | | | | | | | |
| 307 | | 1 | DJ128 | .04 | 1 | 1 x 9 3/8 | .15 | 1 | 1 x 13 | .17 | 1 | 1 x 13 | .17 |
| 305 | | | | | | 1 | 1 x 9 3/8 | .10 | 1 | 1 x 13 | .11 | 1 | 1 x 13 |
| 308 | | | | | | 1 | 1 x 9 3/8 | .04 | 1 | 1 x 13 | .04 | 1 | 1 x 13 |
| *310 | | 1 | DJ128 | .04 | 2 | 1 x 1 1/2 | .04 | 1 | 1 x 1 1/2 | .04 | 2 | 1 x 1 1/2 | .04 |
| 311 | | | | | | 1 | #405 | .04 | 1 | #405 | .04 | 1 | #405 |
| 312 | | | | | | 1 | #763 | .04 | 1 | #763 | .04 | 1 | #763 |
| 313 | | | | | | 1 | #784 | .06 | 1 | #784 | .06 | 1 | #784 |
| 314 | | | | | | 1 | #784 | .10 | 1 | #784 | .10 | 1 | #784 |
| 316 | | | | | | 3 | 1 x 4 3/8 | .10 | 3 | 1 x 5 5/8 | .15 | 3 | 1 x 5 5/8 |
| *317 | | 1 | #513 | .04 | 1 | 1 x 4 3/8 | .10 | 1 | 1 x 5 5/8 | .15 | 1 | 1 x 5 5/8 | |
| 318 | | | | | | 1 | #742 | .04 | 1 | #742 | .04 | 1 | #742 |
| 319 | | | | | | 1 | #614 | .04 | 1 | #614 | .04 | 1 | #614 |
| 320 | | | | | | 1 | #717A | .11 | 1 | #717A | .11 | 1 | #717A |
| 321 | | | | | | 1 | 1 x 1 1/2 | .06 | 1 | 1 x 1 1/2 | .06 | 1 | 1 x 1 1/2 |
| 322 | | | | | | 1 | #689 | .02 | 1 | #689 | .02 | 1 | #689 |
| 323 | | | | | | 1 | 1 x 3/8 SAE | .02 | 1 | 1 x 3/8 SAE | .02 | 1 | 1 x 3/8 SAE |
| 324 | | | | | | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 |
| 326 | | | | | | 1 | #743B | .08 | 1 | #743B | .08 | 1 | #743B |
| 327 | | | | | | 1 | #12 | .04 | 1 | #12 | .04 | 1 | #12 |
| 328 | | | | | | 1 | #744B | .06 | 1 | #744B | .06 | 1 | #744B |
| 329 | | | | | | 1 | 1 x 1 1/2 | .04 | 1 | 1 x 1 1/2 | .04 | 1 | 1 x 1 1/2 |
| 448 | | | | | | 1 | #761A | .06 | 1 | #761A | .06 | 1 | #761A |
| *476 | | | | | | 1 | #448 | .04 | 1 | #448 | .04 | 1 | #448 |
| 509A | | | | | | 2 | #476B | .06 | 2 | #476B | .06 | 2 | #476B |
| 521 | | | | | | 1 | #0 | .15 | 1 | #0 | .15 | 1 | #0 |
| 527 | | | | | | 1 | #521 | .23 | 1 | #521 | .23 | 1 | #521 |
| 623 | | | | | | 1 | 48A32B | 1.90 | 1 | 48A32B | 1.90 | 1 | 48A32B |
| | | | | | | 1 | VAI75B | .04 | 1 | VAI75B | .04 | 1 | VAI75B |
| | | | | | | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 |
| | | | | | | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 |
| | | | | | | 1 | 48A53B | 2.19 | 1 | 48A53B | 2.19 | 1 | 48A53B |
| | | | | | | 1 | VAI75B | .04 | 1 | VAI75B | .04 | 1 | VAI75B |
| | | | | | | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 | .02 | 1 | 10-24 x 3/8 |
| | | | | | | 2 | #1 | .19 | 2 | #1 | .19 | 2 | #1 |
| | | | | | | 1 | #1 | .27 | 1 | #1 | .27 | 1 | #1 |

1½, 3 AND 6 H. P. "Z" ENGINES WITH SUMTER GEAR DRIVEN MAGNETO.

| Repair Nos. | Group Parts | 1½ H. P. | | | 3 H. P. | | | 6 H. P. | | |
|-------------|-------------|---|----------|-------------|----------|--------|-------------|----------|--------|-------------|
| | | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each | No. Used | Symbol | Price, Each |
| | | The group number in Heavy Type when shown at the Head of a Group of Parts includes all items mentioned in that group. | | | | | | | | |
| | | NAME OF PART | | | | | | | | |
| | | 1 | 1/8 #634 | .02 | 1 | 1/8 | .02 | 1 | 1/8 | .02 |
| 634 | | 1 | | .04 | | | | | | |
| 646 | | 1 | #646B | .06 | | | | | | |
| *647 | | 1 | #831 | .08 | | | | | | |
| *656 | | 1 | #648 | .08 | | | | | | |
| | | 1 | ZA728B | 1.14 | 1 | ZB14 | 1.52 | 1 | ZC14 | 1.90 |
| 728A-C | | 1 | ZA265A | 1.14 | 1 | ZA265A | 1.52 | 1 | ZA265A | 1.90 |
| 728A | | 1 | ZA266 | | 1 | ZA266 | | 1 | ZA266 | |
| | | 1 | ZA267A | | 1 | ZA267A | | 1 | ZA267A | |
| | | 1 | ZA267A | .50 | 1 | ZA267A | .73 | 1 | ZA267A | .77 |
| 267 | | 1 | | .04 | 1 | | .06 | 1 | | .06 |
| 300 | | | | | 1 | #783 | .04 | 1 | #783 | .04 |
| 308 | | | | | 1 | #763 | .04 | 1 | #763 | .04 |
| 310 | | | | | 1 | #750A | .08 | 1 | #749A | .08 |
| 311 | | | | | 1 | #784 | .06 | 1 | #784 | .06 |
| 314 | | | | | 1 | #742 | .04 | 1 | #742 | .04 |
| 317 | | | | | 1 | #717A | .11 | 1 | #759A | .15 |
| 319 | | | | | 1 | #699 | .06 | 1 | #699 | .06 |
| 323 | | | | | 1 | #743B | .08 | 1 | #743B | .08 |
| 324 | | | | | 1 | #12 | .04 | 1 | #12 | .04 |
| 326 | | | | | 1 | #744B | .06 | 1 | #744B | .06 |
| 329 | | | | | 1 | #761A | .06 | 1 | #762B | .06 |
| 448 | | 1 | #448 | .04 | 1 | | | 1 | | |
| .476 | | 1 | #476B | .06 | 1 | | | 1 | | |
| 647 | | 1 | #831 | .08 | 1 | | | 1 | | |

BOTH SUMTER ROTARY AND ORBITATING MAGNETO

FAIRBANKS-MORSE

$1\frac{1}{2}$, 3 AND 6 H. P. "Z" ENGINES

IGNITION

Below is a list of the magnetos used on these engines:

Sumter No. 12 Imp. Gear Driven.

Previous to $1\frac{1}{2}$ H. P. No. 312794.

Previous to 3 H. P. No. 244067.

Previous to 6 H. P. No. 188067.

Note.—Sumter No. 15 Imp. will be sent out on repairs for complete magnetos in place of No. 12 Imp.

Sumter No. 15 Imp. Gear Driven.

Used on $1\frac{1}{2}$ H. P. engines Nos. 312795 to 345864, inclusive.

Sumter No. 22 Satan, Gear Driven.

Used on 3 H. P. engines Nos. 244068 to 261446, inclusive.

Used on 6 H. P. engines Nos. 188068 to 265626, inclusive.

Note.—Sumter No. 25 Satan will be sent out on repairs for complete magnetos in place of No. 22 Satan.

Sumter No. 25, Satan, Gear Driven.

Used on 3 H. P. engines Nos. 261447 to 268917, inclusive.

Used on 6 H. P. engines Nos. 265627 to 267229, inclusive.

Sumter No. 14 Imp. used with model Z plugoscillator on $1\frac{1}{2}$ H. P. and model C plug-oscillator on 3 and 6 H. P. engines.

Used on $1\frac{1}{2}$ H. P. engines Nos. 345865 to 394367, inclusive.

Used on 3 H. P. engines Nos. 268918 to 393879, inclusive.

Used on 6 H. P. engines Nos. 267230 to 392387, inclusive.

Bosch AB33—Ed—1 Oscillating.

First used on $1\frac{1}{2}$ H. P. engine No. 394368.

First used on 3 H. P. engine No. 393880.

First used on 6 H. P. engine No. 392388.

When ordering repair parts always give the type and serial number of the magneto and the size and serial number of engine.

1½, 3 AND 6 H. P. "Z" ENGINES—SUMTER IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| | | | | | | | |
| | Sumter #12 Imp. Magneto, Previous to 1½ H. P. Engine #312794..... | 1 | #12 Imp. | 1 | #12 Imp. | 1 | #12 Imp. |
| 12 | Previous to 3 H. P. Engine #244067..... | 1 | .25 | 1 | .25 | 1 | .25 |
| 71 | Previous to 6 H. P. Engine #188067..... | 1 | 6.00 | 1 | 6.00 | 1 | 6.00 |
| 72 | Magnet Band..... | 1 | .06 | 1 | .06 | 1 | .06 |
| | Armature..... | | | | | | |
| | Armature Shaft Nut..... | | | | | | |

1½, 3 AND 6 H. P. "Z" ENGINES—SUMMER IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|----------------------------------|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 73 | Armature Shaft Lock Washer..... | 1 | .06 | 1 | .06 | 1 | .06 |
| 74 | Armature Shaft Woodruff Key..... | 1 | .06 | 1 | .06 | 1 | .06 |
| 75 | Terminal Nut..... | 1 | .12 | 1 | .12 | 1 | .12 |
| 76 | Terminal Nut..... | 1 | .12 | 1 | .12 | 1 | .12 |
| 77 | Collector Brush Holder..... | 1 | .18 | 1 | .18 | 1 | .18 |
| 78 | Terminal Clip Holder..... | 1 | .12 | 1 | .12 | 1 | .12 |
| 79 | Terminal Clip..... | 1 | .12 | 1 | .12 | 1 | .12 |
| 80 | Terminal Brush with Spring..... | 1 | .18 | 1 | .18 | 1 | .18 |
| 81 | Ground Brush with Spring..... | 1 | .18 | 1 | .18 | 1 | .18 |
| 82 | Rear End Plate..... | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 83 | Rear End Plate Screws..... | 4 | .06 | 4 | .06 | 4 | .06 |
| 84 | Top Plate with Terminal..... | 1 | .93 | 1 | .93 | 1 | .93 |
| 85 | Driving End Plate..... | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 86 | Magneto Frame Assembly..... | 1 | 4.06 | 1 | 4.06 | 1 | 4.06 |
| 87 | Magnets..... | 2 | 1.87 | 2 | 1.87 | 2 | 1.87 |
| 88 | Magnet Clamp Screws..... | 4 | .06 | 4 | .06 | 4 | .06 |
| 89 | Magnet Clamp..... | 1 | .18 | 1 | .18 | 1 | .18 |

For Complete Magneto #15 Imp. will be furnished

1½, 3 AND 6 H. P. "Z" ENGINES—SUMTER IGNITION.

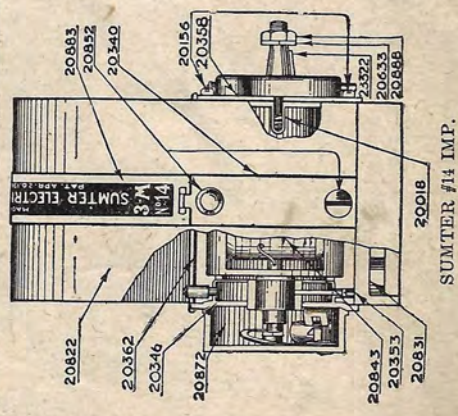
| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|-----------------------------------|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 20018 | Brush Assembly..... | 1 | .18 | 1 | .18 | 1 | .18 |
| 20043 | Red Thrust Washer..... | 1 | .06 | | | | |
| 20043B | Black Thrust Washer..... | 1 | .06 | | | | |
| 20047 | Armature Shaft Lock Washer..... | | | | | | |
| 20048 | Armature Shaft Nut..... | 1 | .06 | 1 | .06 | 1 | .06 |
| 20049 | Armature Shaft Woodruff Key..... | 1 | .06 | 1 | .06 | 1 | .06 |
| 20156 | End Plate Screws..... | 4 | .06 | 4 | .06 | 4 | .06 |
| 20302 | Top Plate with Terminal..... | 1 | 1.06 | 1 | 1.06 | 1 | 1.06 |
| 20322 | Magnets..... | 2 | 2.50 | 2 | 2.50 | 2 | 2.50 |
| 20325 | Armature..... | 1 | 6.25 | 1 | 6.25 | 1 | 6.25 |
| 20331 | Frame Assembly..... | 1 | 4.06 | 1 | 4.06 | 1 | 4.06 |
| 20340 | Magnet Clamp..... | 1 | .18 | 1 | .18 | 1 | .18 |
| 20346 | End Plate Assembly..... | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 20348 | Timing Disc..... | 1 | .12 | | | | |
| 20353 | Oil Reservoir Tube Screw..... | 1 | .06 | | | | |
| 20360 | Drive End Plate Assembly..... | 1 | 1.87 | | | | |
| 20362 | Top Plate Assembly..... | 1 | .31 | | | | |
| 20363 | Oil Wick Assembly..... | 1 | .06 | | | | |
| 20367 | Magnet Band..... | | | 1 | .25 | 1 | .25 |
| 20633 | Drive Shaft Lock Washer..... | 1 | .06 | | | | |
| 20804 | End Plate Assembly..... | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 20816 | Lock Washer..... | 1 | .06 | | | | |
| 20817 | Collector Brush Holder..... | | | 1 | .18 | 1 | .18 |
| 20819 | Magnet Screw Lock Washers..... | 4 | .06 | | | | |
| 20820 | Terminal Nuts..... | 2 | 1.87 | 2 | .06 | 2 | .06 |
| 20822 | Magnets..... | 2 | 1.87 | | | | |
| 20824 | Saddle..... | | | 1 | .12 | 1 | .12 |
| 20826 | Fahnestock Clip..... | | | 1 | .12 | 1 | .12 |
| 20831A | Frame Assembly..... | 1 | 3.75 | | | | |
| 20852 | Magnet Clamp Screws..... | 4 | .06 | 4 | .06 | 4 | .06 |
| 20858 | Bakelite Terminal Cap Screws..... | 2 | .06 | | | | |
| 20865 | Armature Assembly..... | 1 | 6.00 | | | | |
| 20875 | Terminal Cap Assembly..... | 1 | .87 | | | | |

1½, 3 AND 6 H. P. "Z" ENGINES—SUMTER IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|--|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 20884 | Magnet Band..... | 1 | .25 | | | | |
| 20888 | Drive Shaft Nut..... On Orders for Magnetos Complete #25 Satan will be furnished in place of #22 Satan. | 1 | .12 | | | | |
| | <p>SUMTER #25 SATAN</p> | | | | | | |
| 20018 | Sumter #25 Satan Magneto: | | | 1 | #25 Satan | | #25 Satan |
| 20043 | Used on 3 H. P. Engines #261447 to 268917 | | | 1 | .18 | 1 | .18 |
| 20043B | Used on 6 H. P. Engines #265627 to 267229 | | | 1 | .06 | 1 | .06 |
| 20049 | Brush Assembly..... | | | 1 | .06 | 1 | .06 |
| 20156 | Red Thrust Washer..... | | | 1 | .06 | 1 | .06 |
| 20314 | Black Thrust Washer..... | | | 1 | .06 | 1 | .06 |
| | Woodruff Key..... | | | 1 | #1 | 1 | #1 |
| | End Plate Screws..... | | | 4 | 3/8 | 4 | 3/8 |
| | Armature Assembly..... | | | 1 | 6.25 | 1 | 6.25 |

1½, 3 AND 6 H. P. "Z" ENGINES—SUMTER IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|----------------------------|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 20322 | Magnets..... | | | | | | 2.50 |
| 20326 | Frame Assembly..... | | | 2 | 2.50 | 2 | 2.50 |
| 20330 | Magnet Band..... | | | 1 | 4.06 | 1 | 4.06 |
| 20340 | Magnet Clamp..... | | | 1 | .25 | 1 | .25 |
| 20346 | End Plate Assembly..... | | | 2 | .18 | 2 | .18 |
| 20348 | Timing Disc..... | | | 1 | 1.87 | 1 | 1.87 |
| 20353 | Oil Reservoir..... | | | 1 | .12 | 1 | .12 |
| 20356 | Top Plate Assembly..... | | | 1 | .06 | 1 | .06 |
| 20360 | End Plate Assembly..... | | | 1 | .43 | 1 | .43 |
| 20363 | Oil Wick Assembly..... | | | 1 | 1.87 | 1 | 1.87 |
| 20633 | Lock Washer..... | | | 1 | .06 | 1 | .06 |
| 20816 | Lock Washer..... | | | 1 | .06 | 1 | .06 |
| 20819 | Lock Washer..... | | | 1 | .06 | 1 | .06 |
| 20852 | Magnet Screws..... | | | 1 | .06 | 1 | .06 |
| 20858 | Terminal Cap Screw..... | | | 2 | .06 | 2 | .06 |
| 20875 | Terminal Cap Assembly..... | | | 1 | .06 | 1 | .06 |
| 20888 | Hexagon Nut..... | | | 1 | .87 | 1 | .87 |
| | | | | 1 | .12 | 1 | .12 |



1½, 3 AND 6 H. P. "Z" ENGINES—SUMTER IGNITION.

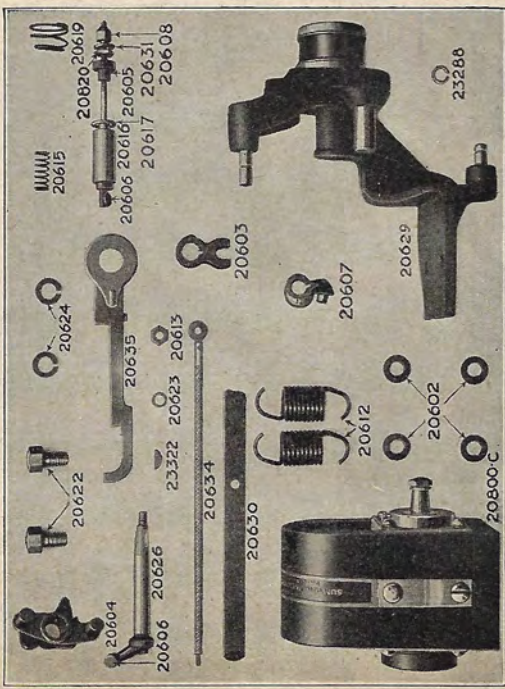
| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|--|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 20800C | Sumter #14 Imp. Oscillating Magneto: | | | | | | |
| 20800C | Used on 1½ H. P. Engines #345865 to 394367 | 1 | .18 | 1 | .18 | 1 | .18 |
| 20800C | Used on 3 H. P. Engines #268918 to 398379 | 1 | .06 | 1 | .06 | 1 | .06 |
| 20800C | Used on 6 H. P. Engines #267230 to 392387 | 1 | .06 | 1 | .06 | 1 | .06 |
| 20018 | Brush Assembly | 4 | .06 | 4 | .06 | 4 | .06 |
| 20043 | Red Thrust Washer | 1 | .18 | 1 | .18 | 1 | .18 |
| 20043B | Black Thrust Washer | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 20156 | End Plate Screw | 1 | .06 | 1 | .06 | 1 | .06 |
| 20340 | Magnet Clamp | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 20346 | End Plate Assembly (Terminal) | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 20353 | Oil Wick Assembly | 1 | .06 | 1 | .06 | 1 | .06 |
| 20358 | End Plate Assembly Drive | 1 | 1.87 | 1 | 1.87 | 1 | 1.87 |
| 20362 | Top Plate Assembly | 1 | .75 | 1 | .75 | 1 | .75 |
| 20633 | Lock Washer | 1 | .06 | 1 | .06 | 1 | .06 |
| 20816 | Lock Washer | 1 | .06 | 1 | .06 | 1 | .06 |
| 20819 | Lock Washer | 1 | .06 | 1 | .06 | 1 | .06 |
| 20822 | Magnets | 2 | 1.87 | 2 | 1.87 | 2 | 1.87 |
| 20831 | Frame Assembly | 1 | 3.75 | 1 | 3.75 | 1 | 3.75 |
| 20843 | Armature Assembly | 1 | 6.00 | 1 | 6.00 | 1 | 6.00 |
| 20852 | Magnet Screw | 4 | .06 | 4 | .06 | 4 | .06 |
| 20856 | Terminal Cap Screw | 2 | .06 | 2 | .06 | 2 | .06 |
| 20858 | Screws for Bakelite Terminal Cap | 2 | .87 | 2 | .87 | 2 | .87 |
| 20872 | Terminal Cap Assembly | 1 | .25 | 1 | .25 | 1 | .25 |
| 20883 | Magnet Band | 1 | .12 | 1 | .12 | 1 | .12 |
| 20888 | Hexagon Nut | 4 | .06 | 4 | .06 | 4 | .06 |
| 23322 | Woodruff Key | 1 | | 1 | | 1 | |

1½, 3 AND 6 H. P. "Z" ENGINES—SUMMER IGNITION

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 20661 | Igniter Bracket..... | 1 | 3.75 | | | | |
| 20662 | Fulcrum Pin..... | 1 | .18 | | | | |
| 20663 | Magneto Crank..... | 1 | .93 | | | | |
| 20664 | Trip and Break Lever..... | 1 | 1.87 | | | | |
| 20666 | Stationary Electrode Assembly (Electrode and point only)..... | 1 | 1.68 | | | | |
| 20669 | Trip Finger..... | 1 | 1.87 | | | | |
| 20672 | Trip and Break Lever Spring..... | 1 | .31 | | | | |
| 20673 | Movable Electrode Arm Spring..... | 1 | .12 | | | | |
| 20674 | Movable Electrode Seating Spring..... | 1 | .06 | | | | |
| 20687 | Fulcrum Pin Cotter..... | 1 | .06 | | | | |
| 20691A | Movable Electrode Complete Assembly..... | 1 | 2.50 | | | | |
| 20820 | Hexagon Nut, ⅜-8/32 Brass..... | 1 | .06 | ZAI36A | | | |

1½, 3 AND 6 H. P. "Z" ENGINES—SUMMER IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 695 | Oscillating Magneto Unit | | | | | | .18 |
| 20602 | Spring Roller | | | 1 | .18 | 4 | .62 |
| 20603 | Magneto Crank | | | 1 | 1.87 | 1 | 1.87 |
| 20604 | Trip and Break Lever | | | 1 | .06 | 1 | .06 |
| 20605 | Stationary Electrode Insulating Bushing | | | 1 | .12 | 1 | .12 |
| 20606 | Igniter Point | | | 1 | 1.25 | 1 | 1.25 |
| 20607 | Movable Electrode Arm | | | 1 | .12 | 1 | .12 |
| 20608 | Stationary Electrode Terminal Nut | | | 1 | .12 | 1 | .12 |



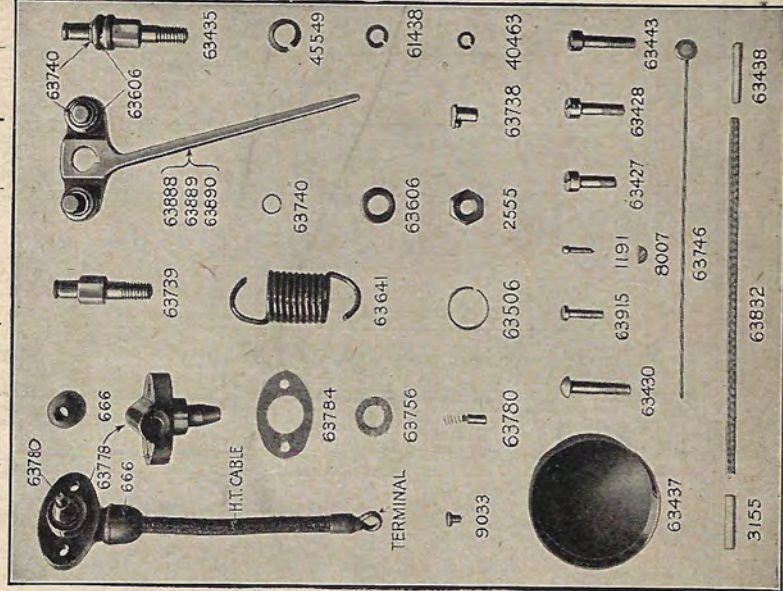
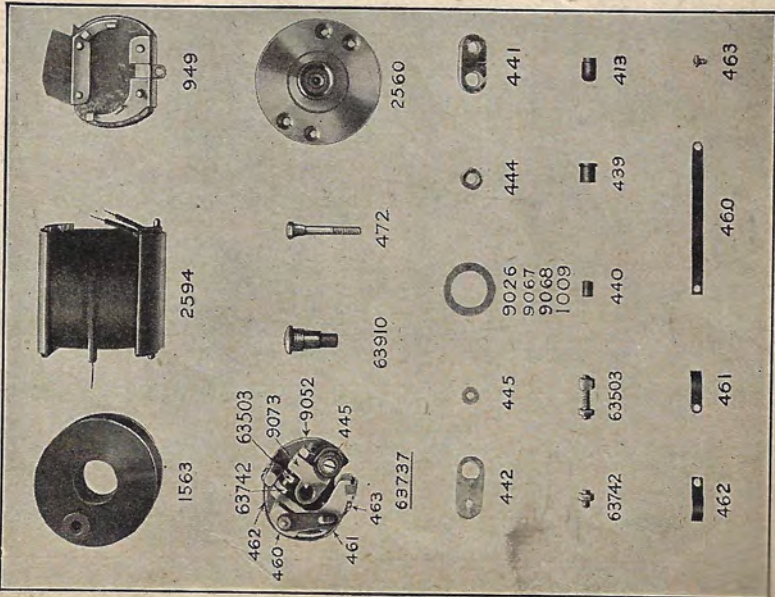
Repair Price List— $\frac{1}{2}$ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES—SUMMER IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|--|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 20612 | Trip Break Lever Spring..... | 2 | .25 | | | | |
| 20613 | Movable Electrode Nut..... | 1 | .06 | | | | |
| 20615 | Movable Electrode Arm Spring..... | 1 | .06 | | | | |
| 20616 | Stationary Electrode Assembly (Electrode with Point) | 1 | 1.68 | | | | |
| 20617 | Stationary Electrode Gasket..... | 1 | .06 | | | | |
| 20619 | Movable Electrode Seating Spring..... | 1 | .12 | | | | |
| 20622 | Magneto Fastening Screw..... | 4 | .06 | | | | |
| 20623 | Movable Electrode Nut Lock Washer..... | 1 | .06 | | | | |
| 20624 | Magneto Fastening Screw Lock Washer..... | 4 | .06 | | | | |
| 20626 | Movable Electrode Assembly (Electrode with Point)..... | 1 | 1.87 | ZB136B | 1.87 | ZB136B | 1.87 |
| 20629 | Igniter Bracket with Pins, Assembled..... | 1 | 6.25 | | 6.25 | | 6.25 |
| 20630 | Starting Lever..... | 1 | .25 | | .25 | | .25 |
| 20631 | Stationary Electrode Washer..... | 1 | .06 | | .06 | | .06 |
| 20634 | Cable Assembly..... | 1 | .43 | ZB130A | .43 | ZB130A | .43 |
| *20635 | Trip Finger Assembly Complete..... | 1 | 2.50 | | 2.50 | | 2.50 |
| 20820 | Stationary Electrode Holding Nut, Hex..... | 1 | .06 | | .06 | | .06 |
| 23288 | Spring Post Ring..... | 4 | .06 | | .06 | | .06 |
| 23322 | Movable Electrode Key..... | 1 | .06 | | .06 | | .06 |

1½, 3 AND 6 H. P. "Z" ENGINES—BOSCH IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|-------------|----------|-------------|----------|-------------|
| | | No. Used | Price, Each | No. Used | Price, Each | No. Used | Price, Each |
| | AB-33 ED1—Bosch Magneto Effective on..... | ..... | 394368 | ..... | 393880 | ..... | 392388 |



Repair Price List—1½ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES—BOSCH IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 274 | Interrupter Wick | 1 | .04 | 1 | .04 | 1 | .04 |
| 323 | Armature Wound Core Dowel Pin | 1 | .04 | 1 | .04 | 1 | .04 |
| 377 | Condenser Fastening Screw | 1 | .04 | 1 | .04 | 1 | .04 |
| 378 | Armature (Condenser) End Fastening Screw | 1 | .04 | 1 | .04 | 1 | .04 |
| 413 | Interrupter Lever | 1 | .08 | 1 | .08 | 1 | .08 |
| 414 | Interrupter Disc Fibre Plate | 1 | .04 | 1 | .04 | 1 | .04 |
| 415 | Interrupter Disc Fibre Plate Rivet | 1 | .04 | 1 | .04 | 1 | .04 |
| 417 | Interrupter Lever Holding Spring | 1 | .04 | 1 | .04 | 1 | .04 |
| 418 | Interrupter Lever Holding Spring Washer | 1 | .04 | 1 | .04 | 1 | .04 |
| 438 | Lock Nut for Contact Screw | 1 | .04 | 1 | .04 | 1 | .04 |
| 439 | Interrupter Center Bushing | 1 | .08 | 1 | .08 | 1 | .08 |
| 440 | Anti-clockwise Contact Block Rubber Bushing | 1 | .05 | 1 | .05 | 1 | .05 |
| 441 | Anti-clockwise Contact Block Mica Plate Thick | 1 | .08 | 1 | .08 | 1 | .08 |
| 442 | Anti-clockwise Contact Block Mica Plate Thin | 1 | .04 | 1 | .04 | 1 | .04 |
| 443 | Anti-clockwise Contact Block Center Washer | 1 | .04 | 1 | .04 | 1 | .04 |
| 444 | Anti-clockwise Contact Block Mica Washer, Thick | 1 | .04 | 1 | .04 | 1 | .04 |
| 445 | Anti-clockwise Contact Block Mica Washer, Thin | 1 | .04 | 1 | .04 | 1 | .04 |
| 446 | Anti-clockwise Contact Block Screw Brass Washer | 1 | .04 | 1 | .04 | 1 | .04 |
| 447 | Anti-clockwise Contact Block Fastening Screw | 1 | .06 | 1 | .06 | 1 | .06 |
| 457 | Interrupter Lever Fibre Block | 1 | .04 | 1 | .04 | 1 | .04 |
| 458 | Interrupter Lever Fibre Block Rivet | 1 | .04 | 1 | .04 | 1 | .04 |
| 459 | Interrupter Lever Fibre Block Pivot Pin | 1 | .05 | 1 | .05 | 1 | .05 |
| 460 | Interrupter Lever Operating Spring | 1 | .04 | 1 | .04 | 1 | .04 |
| 461 | Interrupter Lever Reinforcing Spring (on Lever) | 1 | .04 | 1 | .04 | 1 | .04 |
| 462 | Interrupter Lever Reinforcing Spring (on Disc) | 1 | .04 | 1 | .04 | 1 | .04 |
| 463 | Interrupter Spring Screw | 1 | .04 | 1 | .04 | 1 | .04 |
| 472 | Interrupter Fastening Screw | 1 | .09 | 1 | .09 | 1 | .09 |
| 666 | Brush Holder Rubber Protector | 1 | .06 | 1 | .06 | 1 | .06 |
| 944 | Armature Shaft Fastening Screw | 1 | .04 | 1 | .04 | 1 | .04 |
| 949 | Not used—Use 61823 | 1 | 3.63 | 1 | 3.63 | 1 | 3.63 |
| 956 | Condenser Linen Insulation Strip—Short | 1 | .04 | 1 | .04 | 1 | .04 |
| 957 | Condenser Linen Insulation Strip—Long | 1 | .04 | 1 | .04 | 1 | .04 |
| 958 | Condenser Center Insulation Bushing | 1 | .08 | 1 | .08 | 1 | .08 |

$1\frac{1}{2}$, 3 AND 6 H. P. ENGINES—BOSCH IGNITION.

| Repair Numbers | NAME OF PART | $1\frac{1}{2}$ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|--|----------------------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 1009 | Collector Ring Equalizing Washer 0.05 MM. | 1 | .04 | 1 | .04 | 1 | .04 |
| 1191 | Brush Holder Cable Fastening Screw. | 2 | .04 | 2 | .04 | 2 | .04 |
| 1563 | Collector Ring | 1 | 1.92 | 1 | 1.92 | 1 | 1.92 |
| 2176 | Collector Ring Linen Insulation Washer. | 1 | .04 | 1 | .04 | 1 | .04 |
| 2555 | Roller Stud Nut. | 2 | .06 | 2 | .06 | 2 | .06 |
| 2555 | Armature Shaft Nut. | 1 | .06 | 1 | .06 | 1 | .06 |
| 2560 | Armature (Condenser) End Shaft (only). | 1 | 1.50 | 1 | 1.50 | 1 | 1.50 |
| 2594 | Armature Wound Core. | 1 | 6.72 | 1 | 6.72 | 1 | 6.72 |
| 3155 | Oil Felt Wick. | 2 | .04 | 2 | .04 | 2 | .04 |
| 8007 | Armature Shaft Woodruff Key. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9026 | Collector Ring Equalizing Washer 0.3 MM. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9033 | Interrupter Cam Fastening Screw. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9033 | Interrupter End Cap Fastening Screw. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9052 | Not used—Use 61310. | 1 | .91 | 1 | .91 | 1 | .91 |
| 9067 | Collector Ring Equalizing Washer 0.1 MM. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9068 | Collector Ring Equalizing Washer 0.2 MM. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9073 | Not used. Use 62187. | 1 | .22 | 1 | .22 | 1 | .22 |
| 9723 | Terminal Screw Washer. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9724 | Terminal Screw Hex Nut. | 1 | .04 | 1 | .04 | 1 | .04 |
| 9766 | Condenser Insulation Bushing Felt Packing. | 1 | .04 | 1 | .04 | 1 | .04 |
| 40463 | Brush Holder Fastening Screw Lock Washer. | 1 | .04 | 1 | .04 | 1 | .04 |
| 45549 | Armature Shaft Lock Washer. | 2 | .04 | 2 | .04 | 2 | .04 |
| 61310 | Interrupter Disc with Fibre Bushing and Holding String | 1 | .04 | 1 | .04 | 1 | .04 |
| 61394 | Interrupter Lever without Contact Screw. | 1 | .91 | 1 | .91 | 1 | .91 |
| 61438 | Magneto Fastening Screw Washer. | 4 | 1.23 | 4 | 1.23 | 4 | 1.23 |
| 61438 | Rear End Plate Fastening Screw Washer. | 4 | .04 | 4 | .04 | 4 | .04 |
| 61716 | Cam with Felt Wick. | 1 | .27 | 1 | .27 | 1 | .27 |
| 61823 | Condenser. | 1 | 3.63 | 1 | 3.63 | 1 | 3.63 |
| 61905 | Armature Flange. | 1 | 5.60 | 1 | 5.60 | 1 | 5.60 |
| 62030 | Magneto Wrench. | 1 | .22 | 1 | .22 | 1 | .22 |
| 62187 | Anti-clockwise Block. | 1 | .22 | 1 | .22 | 1 | .22 |
| 63404 | Magnet. | 2 | 1.07 | 2 | 1.07 | 2 | 1.07 |
| 63427 | Magnet Fastening Screw—Short. | 4 | .04 | 4 | .04 | 4 | .04 |

Repair Price List— $1\frac{1}{2}$ H. P., 3 H. P., 6 H. P. "Z" Engines

1½, 3 AND 6 H. P. "Z" ENGINES—BOSCH IGNITION.

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 63428 | Magnet Fastening Screw—Long..... | 4 | .04 | 4 | .04 | 4 | .04 |
| 63430 | Rear End Plate Fastening Screw..... | 4 | .04 | 4 | .04 | 4 | .04 |
| 63431 | Armature Flange and Shaft..... | 1 | 1.44 | 1 | 1.44 | 1 | 1.44 |
| 63435 | Roller Stud—Long..... | 1 | .16 | 1 | .16 | 1 | .16 |
| 63437 | Interrupter End Cap..... | 1 | .11 | 1 | .11 | 1 | .11 |
| 63438 | Oil Felt Wick..... | 2 | .04 | 2 | .04 | 2 | .04 |
| 63443 | Magnet to End Plate Fastening Screw..... | 4 | .04 | 4 | .04 | 4 | .04 |
| 63503 | Contact Screw with Nut—Long..... | 1 | .64 | 1 | .64 | 1 | .64 |
| 63506 | Collector Ring Spring Ring..... | 1 | .04 | 1 | .04 | 1 | .04 |
| 63606 | Roller for Trip Lever Spring..... | 4 | .08 | 4 | .08 | 4 | .08 |
| 63641 | Not Used. Use 64028..... | | | 2 | .14 | 2 | .14 |
| 63736 | Armature Complete..... | 1 | 16.00 | 1 | 16.00 | 1 | 16.00 |
| 63737 | Interrupter Assembly with Contact Screws..... | 1 | 4.16 | 1 | 4.16 | 1 | 4.16 |
| 63738 | Oil Cup..... | 1 | .11 | 1 | .11 | 1 | .11 |
| 63739 | Roller Stud—Short..... | 1 | .11 | 1 | .11 | 1 | .11 |
| 63740 | Roller Spring Ring..... | 2 | .04 | 2 | .04 | 2 | .04 |
| 63741 | Rear End Plate..... | 1 | .96 | 1 | .96 | 1 | .96 |
| 63742 | Contact Screw Short..... | 1 | .64 | 1 | .64 | 1 | .64 |
| 63746 | Seal with Wire..... | 2 | .04 | 2 | .04 | 2 | .04 |
| 63756 | Brush Holder Felt Washer..... | 1 | .04 | 1 | .04 | 1 | .04 |
| 63757 | Magneto Frame..... | 1 | 7.47 | 1 | 7.47 | 1 | 7.47 |
| 63772 | Hand Operating Lever..... | 1 | .22 | 1 | .22 | 1 | .22 |
| 63778 | Collector Brush Holder..... | 1 | .64 | 1 | .64 | 1 | .64 |
| 63780 | Collector Brush with Spring..... | 1 | .11 | 1 | .11 | 1 | .11 |
| 63784 | Brush Holder Gasket..... | 1 | .04 | 1 | .04 | 1 | .04 |
| 63832 | Interrupter End Cap Packing Strip..... | 1 | .04 | 1 | .04 | 1 | .04 |
| *63888 | Not Used. Use 64962..... | | | 1 | 1.35 | 1 | 1.35 |
| *63890 | Trip Lever..... | 1 | 1.50 | 1 | 1.50 | 1 | 1.50 |
| 63910 | Grounding Brush and Brass Holding Screw..... | 1 | .32 | 1 | .32 | 1 | .32 |
| 63915 | Brush Holder Fastening Screw..... | 1 | .04 | 1 | .04 | 1 | .04 |
| 63959 | Condenser Fibre Insulation Strip..... | 1 | .04 | 1 | .04 | 1 | .04 |
| 64781 | High Tension Cable 1½ H. P..... | 1 | .27 | 1 | .27 | 1 | .27 |
| 64782 | High Tension Cable 3 H. P..... | | | | .32 | | .32 |

1½, 3 AND 6 H. P. "Z" ENGINES—BOSCH IGNITION,

| Repair Numbers | NAME OF PART | 1½ H. P. | | 3 H. P. | | 6 H. P. | |
|----------------|---|----------|------------|----------|------------|----------|------------|
| | | No. Used | Price Each | No. Used | Price Each | No. Used | Price Each |
| 64783 | High Tension Cable 6 H. P. | | | | | | .38 |
| *64028 | Trip Lever Springs | | | 2 | .14 | 1 | .14 |
| 64251 | Terminal Screw—insulated | 1 | .11 | 1 | .11 | 1 | .11 |
| 64259 | Brush Holder Rubber Protector | 1 | .06 | 1 | .06 | 1 | .06 |
| 64276 | End Cap with Terminal | 1 | .55 | 1 | .55 | 1 | .55 |
| 64277 | End Cap with Pin | 1 | .11 | 1 | .11 | 1 | .11 |
| 74278 | End Cap Contact Spring with Brush | 1 | .14 | 1 | .14 | 1 | .14 |
| 64280 | Terminal Screw Fibre Plate | 1 | .07 | 1 | .07 | 1 | .07 |
| 64281 | Terminal Screw Mica Plate | 1 | .04 | 1 | .04 | 1 | .04 |
| 64282 | Terminal Screw Insulating Bushing | 1 | .07 | 1 | .07 | 1 | .07 |
| 64283 | Terminal Screw | 1 | .05 | 1 | .05 | 1 | .05 |
| 64856 | Trip Lever Roller Holding Washer | 4 | .04 | 4 | .04 | 4 | .04 |
| 64863 | Trip Lever Roller—10 MM Hole | 4 | .08 | 4 | .08 | 4 | .08 |
| 64869 | Interrupter Lever (Bearing) Linen Bushing | 1 | .08 | 1 | .08 | 1 | .08 |
| 64870 | Interrupter Lever Linen Block | 1 | .04 | 1 | .04 | 1 | .04 |
| 64962 | Trip Lever Curved | 1 | 1.35 | | | | |
| 65136 | Trip Lever Springs (For Curved Lever) | 2 | .16 | | | | |
| 65170 | Anti-Clockwise Interrupter Disc with Linen Bushing and Holding Spring | 1 | .94 | 1 | .94 | 1 | .94 |
| 65171 | Anti-Clockwise Interrupter Lever with Linen Block | 1 | 1.23 | 1 | 1.23 | 1 | 1.23 |

