

*Exhibit C*

# Repair Parts Price List

FOR THE

# LAUSON

*20-35*

**16-32**

# TRACTOR

Effective April 1, 1927

**THE JOHN LAUSON MFG. CO.**  
NEW HOLSTEIN, WIS., U. S. A.

# INSTRUCTIONS FOR ORDERING REPAIRS

All prices subject to change without notice.

## THIS LIST SUPERSEDES ALL PREVIOUS LISTS

Always give both TRACTOR and MOTOR NUMBER. The tractor number is found on the name plate on the dash. The motor number is located on the right side of the motor.

State whether to ship via FREIGHT, EXPRESS or PARCEL POST. Unless you do, we will use our own judgment and expect you to abide by it.

Write orders on separate sheet from other business. Be sure and give both NUMBER AND NAME of parts.

Write name and address plainly, where to ship, name of station, county and state.

In telegraphing use CODE WORD. PREPAY ALL TELEGRAMS.

If remittance does not accompany order shipment will be made C. O. D.

INSPECT ALL SHIPMENTS ON RECEIPT. If damaged file CLAIM with TRANSPORTATION COMPANY before ACCEPTING shipment.

Never order by PAIRS or SETS. Give quantity of parts wanted. Example: One set of piston rings might mean THREE RINGS or TWELVE RINGS.

When CLAIM is made for defective parts under our Warranty it is necessary that the parts be returned to factory, TRANSPORTATION CHARGES PREPAID. TAG and MARK PLAINLY such parts so we will know WHO sent them and write us.

If in doubt as to parts needed, send in old parts PLAINLY MARKED TRANSPORTATION CHARGES PREPAID. Also write the factory of shipment stating WHEN and HOW made, CONTENTS and WHY returned.

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**THE JOHN LAUSON MFG. CO.**  
NEW HOLSTEIN, WIS., U. S. A.

## Cylinder Assembly

See Instruction Book for Illustrations of Motor 4 Bores Enbloc

| Part No. | Code Word     | No. Req. | Name of Part   | Price  |
|----------|---------------|----------|--|--------|
| 1105     | Aagock.....   | 1        | Water inlet gasket.....  | \$ .10 |
| 1374A    | Aagadge.....  | 2        | Water inlet stud.....  | .10    |
| 2155     | Aagodo.....   | 1        | 1/4" pet cock.....   | .55    |
| 5350     | Bjabo.....    | 1        | Cylinder "stripped" 4 1/4" bore.....   | 144.00 |
| 8-913    | Tjaculate.... | 4        | Crabs for valve tappet guides.....   | .45    |
|          | Tjade.....    |          | Complete cylinder assembly with pistons, rings, bushing and piston pins..... | 190.50 |
| 2323A    | Bjaboto.....  | 2        | Cylinder hand hole cover.....  | 2.25   |
| 2326     | Tjab.....     | 2        | Cylinder hand hole cover studs.....  | .10    |
| 2330A    | Tjabot.....   | 2        | Cylinder hand hole cover gasket.....   | .20    |
| 2377     | Aagotom....   | 4        | Studs for Crabs.....   | .05    |
| 3003     | Tjacana.....  | 2        | 3/8" 16 U.S.S. hex. nuts.....  | .05    |
| 3580     | Tjacinth..... | 8        | 1/4" 20x1/4" headless set screw.....   | .05    |
| 3023     | Tjacob.....   | 6        | 3/8" SAE hex. nuts.....  | .05    |
| 3634     | Tjack.....    | 6        | 3/8" lockwashers A. L.....   | .05    |
| 4071     | Tjaconet....  | 1        | 1/4" pipe plug.....  | .15    |

## Cylinder Head Assembly

|       |               |    |   |        |
|-------|---------------|----|---|--------|
| 6-17  | Ashoma.....   | 4  | Priming cups.....   | .55    |
| 1097  | Tjadish.....  | 2  | Water outlet gasket.....                                  | .10    |
| 1374  | Tjadestone... | 3  | End cover and conduit stud.....                           | .10    |
| 1374A | Tjael.....    | 4  | Water outlet stud.....                                    | .10    |
| 1374B | Aagiskd.....  | 10 | Intake and exhaust manifold stud.....                     | .10    |
| 1807A | Aagisl.....   | 8  | Valve spring.....   | .70    |
| 1808  | Aagisla.....  | 8  | Valve spring seat.....                                    | .10    |
| 1809  | Aagisle.....  | 8  | Valve spring seat keys.....                               | .10    |
| 2095A | Tjaina.....   | 1  | Cylinder head "stripped".....                             | 83.25  |
| 2161  | Aagisma.....  | 8  | Valve spring washer.....                                  | .10    |
| 2163  | Tjaguar.....  | 11 | Cylinder head stud "long".....                            | .20    |
| 2164  | Tjalap.....   | 6  | Cylinder head stud "short".....                           | .20    |
| 2165  | Tjalapin..... | 2  | Cylinder head stud "intermediate".....                    | .20    |
| 2181  | Aagism.....   | 8  | Valve stem guide.....                                     | 1.15   |
| 2182  | Aagiso.....   | 4  | Rocker arm shaft bracket.....                             | 1.35   |
| 2183  | Aagisoa.....  | 4  | Rocker arm shaft cap stud "short".....                    | .15    |
| 2184  | Rocker.....   | 4  | Rocker arm shaft cap stud "long".....                     | .15    |
| 2188  | Tjambrose...  | 1  | Conduit.....  | 1.65   |
| 2243A | Tjames.....   | 1  | End cover plate.....                                      | .80    |
| 2303B | Tjanus.....   | 2  | Cylinder head cover.....                                  | 6.65   |
|       | Tjapan.....   |    | Cylinder head assembly with valves springs, and caps..... | 116.25 |
| 2304  | Tjanitor..... | 1  | Cylinder head gasket.....                                 | 2.25   |
| 2322B | Aagisoe.....  | 8  | Valves Silcrone.....                                      | 2.75   |
| 3003  | Aabloop.....  | 12 | 3/8" 16 hex. nuts.....                                    | .05    |
| 3023  | Aabloor.....  | 5  | 3/8" 24 SAE hex. nuts.....                                | .05    |
| 3025  | Tjangle.....  | 19 | 1/2" 20 SAE hex. nuts.....                                | .05    |
| 3634  | Aabloos.....  | 5  | 3/8" lockwashers A. L.....                                | .05    |
| 3654  | Tjansen.....  | 1  | 3/8" lockwashers A. H.....                                | .05    |

## Crank Case Top Assembly

|       |              |    |  |      |
|-------|--------------|----|--|------|
| 1715  | Aablotch.... | 12 | Main bearing studs.....                | .15  |
| 1837  | Aablon.....  | 1  | Magneto and pump drive bushing.....    | 2.25 |
| 2008  | Aablona..... | 2  | Water pump bracket studs long.....     | .20  |
| 2009  | Aablonta.... | 1  | Water pump bracket stud short.....     | .15  |
| 2087  | Aablue.....  | 1  | Front camshaft bearing retainer.....   | 3.50 |
| 2088  | Aabluet..... | 1  | Front camshaft bushing.....            | 2.70 |
| 2096A | Asbluff..... | 1  | Rear camshaft bearing cover plate..... | .70  |

Always Give Model and Tractor Number When Ordering Repairs.

| Part No. | Code Word     | No. Req. | Name of Part                                    | Price  |
|----------|---------------|----------|---|--------|
| 2135A    | Tjape.....    | 1        | Special pipe plug for oil line.....             | .10    |
| 2186A    | Aablunt.....  | 2        | Hand hole cover.....                            | 1.65   |
| 2189     | Aablur.....   | 2        | Hand hole cover gasket.....                     | .10    |
| 2240     | Aablurt.....  | 1        | Water pump bracket.....                         | 2.50   |
| 2300E    | Aablush.....  | 1        | Crank case top with bushing studs and caps..... | 195.00 |
| 2307     | Aaboa.....    | 2        | Front and center main bearing cap.....          | 2.00   |
| 2308     | Aaboor.....   | 1        | Rear main bearing cap.....                      | 2.25   |
| 2309     | Aaboa.....    | 2        | Front and center main bearing upper half.....   | 3.95   |
| 2309A    | Aabab.....    | 2        | Front and center main bearing lower half.....   | 3.95   |
| 2310     | Aabode.....   | 1        | Rear main bearing upper half.....               | 5.00   |
| 2310A    | Aabodice..... | 1        | Rear main bearing lower half.....               | 5.00   |
| 2317     | Ambody.....   | 12       | Cylinder hold down studs.....                   | .15    |
| 2331     | Tjarl.....    | 1        | Crankcase gasket cylinder face.....             | .60    |
| 2367     | Aabog.....    | 1        | Center camshaft bearings 2 1/2" bore.....       | 2.65   |
| 2368     | Aaboggy.....  | 1        | Rear camshaft bearing.....                      | 2.25   |
| 3003     | Aaboggus..... | 3        | Hex. nut for bracket stud.....                  | .05    |
| 3025     | Aaboil.....   | 12       | Nuts for cylinder hold down studs.....          | .05    |
| 3047     | Aabolar.....  | 2        | Hex. cast. nuts for main bearing studs.....     | .10    |
| 3061     | Aabold.....   | 8        | Hex. head cap screws for hand hole cover.....   | .05    |
| 3662     | Aabale.....   | 8        | Lockwashers for hand hole covers.....           | .05    |
| 3656     | Aaband.....   | 12       | Lockwashers for cylinder hold down studs.....   | .05    |
| 4101     | Tasan.....    |          | 1/8" grease cup.....                            | .35    |
| 5073     | Aabone.....   | 8        | Bell housing bolts.....                         | .45    |
| 5104     | Tjasey.....   | 1        | Cam shaft bearing cover plate gasket.....       | .15    |
| 5229     | Aabonng.....  | 2        | Rear main bearing laminated shim.....           | .95    |
| 5230     | Aabonnus..... | 4        | Front and center main brg. shim laminated.....  | .90    |
| 5344     | Aabooby.....  | 12       | Bearing retainer screws.....                    | .05    |
| 5510     | Tjamine.....  | 1        | Motor bell housing.....                         | 62.00  |
| 6-051    | Aabook.....   | 1        | Water pump bracket cap.....                     | 1.35   |
| 6-07     | Tjaunt.....   | 1        | Timing inspection hole cover.....               | .15    |
| 6-765    | Tjava.....    | 1        | 1/8" pet cock.....                              | .55    |

## Crank Case Bottom Assembly

|       |               |    |   |       |
|-------|---------------|----|---|-------|
| 2046B | Tjavelin..... | 1  | Lower cover splash plate steel plate.....       | 2.25  |
| 2111  | Aaborder..... | 1  | Crank case bottom cover steel.....              | 5.60  |
| 2160A | Aabore.....   | 1  | Oil screen plate.....                           | 1.15  |
| 2190A | Aaborn.....   | 1  | Oil screen.....                                 | 1.65  |
| 2305A | Aaborne.....  | 1  | Crank case bottom.....                          | 56.00 |
| 2320  | Aabosh.....   | 1  | Crank case bottom gasket R. H.....              | .25   |
| 2321  | Aabossy.....  | 1  | Crank case bottom gasket L. H.....              | .25   |
| 3022  | Aabotch.....  | 4  | Plain hex. nuts for plate studs.....            | .05   |
| 3023  | Aabath.....   | 19 | Plain hex. nuts.....                            | .05   |
| 3060  | Aabather..... | 8  | Hex. head cap screws for oil tray.....          | .05   |
| 3083  | Tjaw.....     |    | Hex. head cap screw 3/8" X.....                 | .05   |
| 3222  | Tjay.....     |    | 3/8" 24 SAE hex. nuts.....                      | .05   |
| 3224  | Tjalous.....  |    | 3/8" 24x1 1/4" SAE hex. head cap screws.....    | .10   |
| 3344  | Aabout.....   | 19 | Hex. head cap screws.....                       | .10   |
| 3633  | Aabou.....    | 4  | Lockwashers for plate studs.....                | .05   |
| 5018  | Tjean.....    |    | Oil screen plate and crankcase bottom stud..... | .10   |
| 5548  | Aabower.....  |    | Oil screen plate studs.....                     | .05   |
| 5049  | Aabowl.....   | 1  | Crank case bottom gasket.....                   | .55   |
| 5050  | Aabox.....    | 1  | Oil screen plate gasket.....                    | .10   |
| 5082  | Aaboy.....    | 1  | Oil screen plate disc.....                      | .15   |
|       | Aabrad.....   | 1  | Square head pipe plug.....                      | .05   |
| 6-765 | Ambrac.....   | 2  | Pet cock.....                                   | .55   |

## Crank Shaft Assembly

|      |              |   |                     |        |
|------|--------------|---|---------------------|--------|
| 1768 | Aabrag.....  | 6 | Flywheel bolts..... | .35    |
| 2079 | Aabraid..... | 1 | Crankshaft.....     | 100.00 |
| 2159 | Starey.....  | 1 | Starting pin.....   | .25    |

Always Give Model and Tractor Number When Ordering Repairs

S280  
S633  
S634  
T601  
T607  
T617  
T617  
S627  
S663  
S666

JR9  
JR1  
T62  
T62  
S65  
T65  
T65

182  
183



| Part No. | Code Word | No. Req. | Name of Part            | Price |
|----------|-----------|----------|-------------------------|-------|
| 2361     | Aabrake   | 1        | Crankshaft gear         | 7.15  |
| 3045     | Aabran    | 6        | 1/2" 20 SAE Castle nuts | .10   |
| 3863     | Aabrass   | 2        | Cotter pins 2 for       | .05   |
| 4033     | Aabrant   | 1        | No. A woodruff key      | .05   |
| 5512     | Tjeer     | 1        | Flywheel                | 46.50 |

## Piston and Connecting Rod Assembly

|       |          |    |   |       |
|-------|----------|----|---|-------|
| 2139  | Aabravo  | 4  | Connecting rod clamp bolts                | .25   |
| 2172A | Tjennett |    | Piston pin bushings                       | .55   |
| 2380A | Aabray   | 4  | Connecting rod stripped                   | 11.25 |
| 2381  | Aabread  | 8  | Connecting rod bearing upper half         | 2.25  |
| 2381  | Aabreak  | 8  | Connecting rod bearing lower half         | 2.25  |
| 2387A | Tjerboa  | 8  | Piston rings 4 1/4" plain                 | .45   |
| 3045  | Habreve  | 16 | Hex. nuts for con. rod bolts              | .10   |
| 3863  | Aabreu   | 16 | Cotter pins for con. rod bolts, 3 for     | .05   |
| 5231  | Aabribes | 8  | Connecting rod bearing laminated shims    | .80   |
| 5344  | Aabrief  | 16 | Bearing retainer screws                   | .05   |
| 5355  | Tjess    | 4  | Piston 4 1/4" with bushing                | 7.25  |
| 5359  | Tjerk    | 4  | Piston pins for 4 1/4" pistons            | 2.25  |
| 5514  | Tjergon  |    | Special oil control piston ring 4 1/4"    | 1.15  |
| 8152  | Aabrier  |    | Connecting rod bolts                      | .40   |
|       | Tjessey  | 4  | Complete piston with rings and 2 bushings | 9.25  |
|       | Aabig    | 4  | Connecting rod complete                   | 20.00 |

## Cam Shaft Group

|       |         |   |                           |       |
|-------|---------|---|---------------------------|-------|
| 1076  | Aabring | 1 | Slotted hex. nut special  | .35   |
| 1777  | Aabrink | 1 | Oil pump drive gear       | 2.70  |
| 2365B | Aabriad | 1 | Cam shaft                 | 36.00 |
| 2366  | Aabrisk | 1 | Cam shaft gear            | 11.75 |
| 3793  | Aabroad | 1 | Taper pin                 | .05   |
| 3884  | Aabrail | 1 | Cotter pin for gear cover | .05   |
| 4029  | Aabrake | 1 | Woodruff key              | .05   |
| 4031  | Aabroad | 1 | Woodruff key for cam gear | .05   |

## Water Pump and Magneto Drive Assembly

|       |         |   |                               |       |
|-------|---------|---|-------------------------------|-------|
| B74-1 | Aabroda | 2 | Metallic packing              | .85   |
| 1745  | Aabroak | 1 | Water pump body with bushing  | 10.25 |
| 1746  | Aabroom | 1 | Water pump cover with bushing | 8.00  |
| 1747A | Aabrath | 1 | Water pump impeller           | 4.00  |
| 1748C | Aabrow  | 1 | Water pump shaft              | 1.35  |
| 1749  | Aabrown | 1 | Water pump gland nut front    | .65   |
| 1750  | Aabruin | 1 | Water pump gland nut rear     | .65   |
| 1751  | Aabruit | 1 | Water pump front bearing      | 1.35  |
| 1752  | Aabrut  | 1 | Water pump rear bearing       | 1.35  |
| 1753  | Aabrush | 1 | Water pump spacing collar     | .60   |
| 1754  | Aabrute | 1 | Water pump gasket             | .10   |
| 3001  | Aabruck | 2 | Hex. nuts                     | .05   |
| 3060  | Aahuffe | 8 | Hex. head cap screws for pump | .05   |
| 3632  | Aahuff  | 2 | Lockwashers                   | .05   |
| 3693  | Aabug   | 1 | Taper pin                     | .05   |
| 3714  | Ashulb  | 1 | Taper pin                     | .05   |
| 3716  | Aahulcd | 1 | Taper pin                     | .05   |
| 4029  | Aahulse | 2 | Woodruff keys                 | .05   |
| 4101  | Aahulk  | 1 | Grease cup No. 000            | .35   |
| 5104  | Aahull  | 2 | Water pump gland packing      | .15   |
| 5126  | Aahully | 8 | Copper washers                | .05   |
| 6-765 | Aabunk  | 1 | Pet cock                      | .55   |

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| Part No. | Code Word   | No. Req. | Name of Part                           | Price |
|----------|-------------|----------|--|-------|
| 5160     | Aabun.....  | 1        | Water pump drive shaft nut.....        | .40   |
|          | Aabung..... |          | Water pump complete with coupling..... | 33.35 |

## Rocker Arm Assembly

|       |               |   |                                       |      |
|-------|---------------|---|---------------------------------------|------|
| 1846  | Aagisme.....  | 8 | Valve tappet adjusting screw nut..... | .10  |
| 2335A | Aago.....     | 4 | Rocker arm shaft cap.....             | 1.35 |
| 2336  | Aablosh.....  | 4 | Rocker arm L. H.....                  | 1.65 |
| 2337  | Aablong.....  | 4 | Rocker arm R. H.....                  | 1.65 |
| 2338  | Aablooh.....  | 8 | Rocker arm bushing.....               | .55  |
| 2350  | Aabloom.....  | 8 | Rocker arm shaft washers.....         | .05  |
| 2351  | Aabloon.....  | 2 | Rocker arm shaft.....                 | 2.65 |
| 2364A | Aabloone..... | 8 | Valve adjusting screw.....            | .10  |
| 3884  | Aablor.....   | 8 | 1 8"x1 1/4" cotter pin.....           | .05  |

## Manifold and Breather Assembly

|       |               |   |                              |       |
|-------|---------------|---|------------------------------|-------|
| S626  | Tjester.....  | 1 | Manifold elbow.....          | 1.75  |
| 1398B | Tjetty.....   | 1 | Breather tube.....           | 2.25  |
| 2333  | Tjewel.....   | 3 | Exhaust manifold gasket..... | .25   |
| 2334  | Tjewfish..... | 2 | Intake manifold gasket.....  | .25   |
| 5407  | Tjib.....     | 1 | Breather cap.....            | 1.65  |
| 5459  | Tjimson.....  | 1 | Intake manifold.....         | 5.65  |
| 5460  | Tjingle.....  | 1 | Exhaust manifold.....        | 15.60 |

## Valve Tappet Assembly

|       |               |   |   |      |
|-------|---------------|---|---|------|
| 6-94  | Aacafe.....   | 8 | Valve tappet rollers.....                 | .45  |
| 6-95  | Aacage.....   | 8 | Valve tappet roller pins.....             | .35  |
| 1726A | Aacairn.....  | 8 | Push rod ball socket ends.....            | .40  |
| 2354A | Aacape.....   | 8 | Push rod for cylinder height 12 1/8"..... | .55  |
| 2354B | Aaclaosh..... | 8 | Push rod for cylinder height 12 3/8"..... | .55  |
| 2393  | Aacalf.....   | 8 | Valve tappets.....                        | 1.70 |
| 2392  | Aacalk.....   | 8 | Valve tappet guides.....                  | 2.00 |
| 8-913 | Aacall.....   | 4 | Crabs for valve tappet guides.....        | .45  |

## Gear Cover Group

|       |               |    |  |       |
|-------|---------------|----|--|-------|
| 2264  | Aacalla.....  |    | Flange coupling on water pump drive shaft..... | 2.80  |
| 2318F | Aacallow..... | 1  | Gear cover.....                                | 20.00 |
| 2319B | Aacalm.....   | 1  | Gear cover gasket.....                         | .40   |
| 2342  | Aacalmer..... | 1  | Flange coupling on water pump shaft.....       | 2.25  |
| 2349A | Aacalve.....  | 1  | Gear on water pump drive shaft.....            | 7.25  |
| 3081  | Aacamel.....  | 4  | Hex. head cap screws.....                      | .05   |
| 3106  | Aacamp.....   | 11 | Hex. head cap screws.....                      | .05   |
| 3633  | Aacan.....    | 4  | Lock washer.....                               | .05   |
| 3634  | Aacant.....   | 11 | Lock washer.....                               | .05   |
| 3716  | Aacanto.....  | 1  | Taper pin.....                                 | .05   |
| 4029  | Aacanton..... | 3  | Woodruff key.....                              | .05   |
| 5150A | Aacap.....    | 1  | Water pump drive shaft.....                    | 6.20  |
| 5160  | Ascape.....   | 1  | Water pump drive shaft nut.....                | .40   |
| 5197A | Ascaper.....  | 1  | Outboard bearing.....                          | 2.65  |
| 5311  | Ascapon.....  | 1  | Outboard bearing gasket.....                   | .10   |
| 5490  | Aacaput.....  |    | Fan pulley on water pump drive shaft.....      | 9.95  |

## Oil pump and Oil Pipe Connection Group

|      |               |   |                             |     |
|------|---------------|---|-----------------------------|-----|
| 6-67 | Aacapovs..... | 1 | Oil pump shaft bushing..... | .40 |
| 6-68 | Aacar.....    | 1 | Pin for oil pump.....       | .05 |

Always Give Model and Tractor Number When Ordering Repairs.

Part No.  
A2T9  
A2T11  
A2T12  
A2S15  
A2S50  
A2T51  
A2T52  
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| Part No. | Code Word     | No. Req. | Name of Part  | Price |
|----------|---------------|----------|---|-------|
| 1353     | Aacord.....   | 2        | Oil line tube straight fitting.....                   | .20   |
| 1369     | Aacorn.....   | 2        | Oil line tube connection hex. nut.....                | .10   |
| 1370     | Aacoret.....  | 2        | Oil line tube connection ferrule.....                 | .10   |
| 1771     | Aacarnal..... | 1        | Oil pump body.....                                    | 6.70  |
| 1774     | Aacarob.....  | 1        | Oil pump shaft short.....                             | .25   |
| 1775     | Aacorom.....  | 1        | Oil pump gear plain.....                              | 2.25  |
| 1775A    | Aacarp.....   | 1        | Oil pump gear keywayed.....                           | 2.25  |
| 1778     | Aacapel.....  | 1        | Oil pump spiral gear.....                             | 2.80  |
| 2372     | Aacarrot..... | 1        | Oil pump column.....                                  | 5.60  |
| 2373     | Aacarry.....  | 1        | Oil pump shaft.....                                   | 1.70  |
| 3084     | Aacart.....   | 3        | Hex. head cap screws.....                             | .05   |
| 3546     | Aacarve.....  | 6        | Round head machine screws.....                        | .05   |
| 3633     | Aacase.....   | 3        | Lockwashers.....                                      | .05   |
| 3692     | Aacash.....   | 1        | Taper pin for drive gear.....                         | .05   |
| 4025     | Aacask.....   | 2        | Woodruff keys for oil line tube pump to oil feed..... | .05   |
| 5448     | Aacast.....   | 1        | Oil pressure relief assembly complete.....            | 1.70  |
| 6-634    | Aacastor..... | 1        | Oil pump body gasket.....                             | .10   |
| XJ       | Aacatch.....  | 1        | Oil pump complete.....                                | 20.00 |

## Starting Crank Assembly

|        |               |   |                                  |      |
|--------|---------------|---|----------------------------------|------|
| 2093   | Aacattle..... | 1 | Starting crank shaft jaw.....    | 3.50 |
| 2135A  | Aacove.....   | 1 | Starting crank shaft collar..... | .90  |
| 2337A  | Aacovil.....  | 1 | Starting crank shaft pin.....    | .25  |
| 2150B  | Aacvotr.....  | 1 | Starting crank bracket.....      | 3.30 |
| 3103   | Aacease.....  | 1 | Hex. head cap screws.....        | .05  |
| 3634   | Aacedor.....  | 1 | Lockwasher.....                  | .05  |
| 3717   | Aacede.....   | 1 | Taper pin for jaw.....           | .05  |
| 4029   | Aacell.....   | 1 | Woodruff key.....                | .05  |
| 5473   | Aacellor..... | 1 | Starting crank shaft.....        | 1.35 |
| 6-431  | Aacent.....   | 1 | Starting crank shaft spring..... | .25  |
| T00302 | Aacenter..... | 1 | Starting lever.....              | .75  |
| T0307  | Aacestas..... | 1 | Starting handle.....             | .20  |
| T6024  | Aachafe.....  | 1 | Starting lever pin.....          | .10  |
| T6162  | Aacahll.....  | 1 | Crank handle pin.....            | .10  |

Always Give Model and Tractor Number When Ordering Repairs.



# Differential Assembly Group

See Fig. 18 in Instruction Book

| Part No. | Code Word     | No. Req. | Name of Part  | Price |
|----------|---------------|----------|---|-------|
| T200A    | Natty.....    | 3        | Differential bevel pinion.....                                    | 2.70  |
| S201A    | Naught.....   | 2        | Differential bevel gear.....                                      | 8.25  |
| T208A    | Nausea.....   | 1        | Differential spider.....  | 9.65  |
| T209A    | Needy.....    | 2        | Differential spider plates.....                                   | 2.65  |
| T568     | Negate.....   | 3        | Outer washer for diff. shaft.....                                 | .05   |
| T6053A   | Nircosis..... | 3        | Differential pinion shaft.....                                    | .80   |
| S6252A   | Nelofer.....  | 6        | Differential plate stud.....                                      | .15   |
| T6253A   | Decree.....   | 6        | Differential spider studs.....                                    | .15   |
| S6297    | Nervine.....  | 1        | Differential shaft locating washer.....                           | .10   |
|          |               |          | $\frac{1}{4}$ " SAE castellated nuts.....                         | .05   |
|          | Nervinal..... | 1        | Complete differential assembly consisting of the above parts..... | 24.65 |

# Transmission Group

See Fig. 18 in Instruction Book

|        |                |   |   |       |
|--------|----------------|---|---|-------|
| BC61   | Bjab.....      | 1 | Oil check ring spring.....                        | .10   |
| R19    | Bjabot.....    | 1 | Victor gasket for S6045A.....                     | .05   |
| S202   | Dado.....      | 1 | Double differential spur gear.....                | 40.50 |
| S219C  | Daft.....      | 1 | Transmission case.....                            | 35.00 |
| S220   | Dagger.....    | 1 | Transmission case cover.....                      | 7.75  |
| S223A  | Daily.....     | 1 | L. H. pulley shaft bearing housing.....           | 3.70  |
| S224   | Daisy.....     | 1 | L. H. pulley shaft bearing housing end plate..... | .95   |
| S227A  | Daine.....     | 1 | R. H. pulley shaft bearing housing.....           | 4.30  |
| S228C  | Dannis.....    | 1 | R. H. pulley shaft bearing end plate.....         | 1.30  |
| S229B  | Danish.....    | 1 | Transmission bell housing.....                    | 12.25 |
| S237   | Danube.....    | 1 | R. H. diff. shaft bearing sleeve.....             | 8.85  |
| S238   | Dapple.....    | 2 | R. and L. end plate for diff. shaft.....          | 1.80  |
| S239   | Dard.....      | 1 | L. H. differential shaft bearing sleeve.....      | 9.40  |
| S257A  | Dare.....      | 1 | Hub for bevel gear.....                           | 2.25  |
| S262   | Dark.....      | 1 | Transmission hand hole plate.....                 | .75   |
| S270   | Bajacana.....  | 1 | Washer for diff. brg. housing.....                | .55   |
| S271A  | Dekist.....    | 2 | Thrust collar.....                                | 1.20  |
| S272   | Dash.....      | 1 | L. H. pulley retainer.....                        | .65   |
| S488   | Data.....      | 1 | Belt pulley 16x7".....                            | 12.00 |
| S513B  | Daunt.....     | 1 | R. H. foot pedal for brake.....                   | 1.20  |
| S514B  | Day.....       | 1 | L. H. foot pedal for brake.....                   | 1.20  |
| S515   | Dazz.....      | 2 | Brake drum.....                                   | 5.00  |
| T517A  | Dazzie.....    | 2 | Brake shoe.....                                   | 3.20  |
| S562A  | Deaf.....      | 2 | Footpedal adjusting lever.....                    | .60   |
| S565A  | Deal.....      | 1 | Washer for belt pulley.....                       | .25   |
| S566B  | Deam.....      | 1 | Bell housing hand hole cover.....                 | .75   |
| T572   | Debar.....     | 1 | Reverse gear spacing sleeve.....                  | .80   |
| S577B  | Debate.....    | 1 | Pulley shaft packing sleeve.....                  | 1.45  |
| S612   | Debauch.....   | 1 | Oil check ring.....                               | .75   |
| S6045A | Debaucher..... | 1 | Pulley shaft.....                                 | 11.50 |
| S6047  | Debon.....     | 1 | Reverse gear shaft.....                           | .90   |
| S6057C | Debonery.....  | 1 | Main drive bevel gear.....                        | 19.50 |
| S6059  | Decay.....     | 1 | High speed spur gear.....                         | 13.50 |
| S6060  | Decant.....    | 1 | Low speed spur gear.....                          | 10.50 |
| S6135  | Decaul.....    | 1 | Key for bevel gear.....                           | .10   |
| S6172  | Decayen.....   | 1 | Bearing retainer screw.....                       | .05   |
| S6175A | Decantor.....  | 2 | Brake shoe spreader pin.....                      | .60   |
| S6201  | Decent.....    | 1 | Reverse gear bushing.....                         | 1.35  |
| S6215  | Declare.....   | 2 | Differential sleeve washer.....                   | .50   |
| S6218A | Decease.....   | 2 | Bull pinion.....                                  | 12.85 |
| S6230  | Decimal.....   | 1 | Long differential shaft.....                      | 9.25  |
| S6231  | Decipher.....  | 1 | Short differential shaft.....                     | 8.50  |
| S6232  | Declaim.....   | 1 | End thrust bearing for pulley shaft.....          | 1.95  |
| S6251  | Decoct.....    | 1 | Reverse gear.....                                 | 21.65 |

Always Give Model and Tractor Number When Ordering Repairs.

Part No.  
T6192A  
S6239  
S6229  
S6430  
S6431  
S6432  
S6568  
S6569  
S6570  
S6573  
S6574  
A-336  
A-358  
A-359

M40  
S214  
S215  
S583  
S569A  
6017  
S6063  
S6064  
S6004  
S6415  
S6434  
S6435  
S6437  
S6449  
S6467  
S6492  
S6500  
S6514  
S6520  
S6633  
A1T54  
A1T60

S217E  
T218  
S6108  
S6133  
S6166  
S6198  
T628  
S6496  
S6498  
T259  
T603

S41  
ZA17  
ZA17  
JR17  
S340



| Part No. | Code Word | No. Req. | Name of Part                                   | Price |
|----------|-----------|----------|--|-------|
| S6253A   | Decrown   | 6        | Diff. spur gear screws                         | .10   |
| S6254    | Deduce    | 8        | Cap screws for No. 6057B bevel gear            | .10   |
| S6256    | Decoy     | 2        | Cap screw for end of diff. shaft               | .10   |
| S6256A   | Deglute   | 1        | Screw for end of pulley shaft                  | .15   |
| S6299    | Decuple   | 5        | Gasket for 229 bell housing steel              | .15   |
| S6300    | Decuan    | 1        | Gasket for 223 pulley shaft brg. housing L. H. | .20   |
| S6301    | Deed      | 6        | Gasket for 224 end plate L. H.                 | .20   |
| S6302    | Deer      | 1        | Gasket for 227 pulley shaft brg. housing R. H. | .25   |
| S6303    | Deern     | 1        | Gasket for 228 end plate R. H.                 | .15   |
| S6305    | Deface    | 2        | Gasket for 237 and 239 diff. sleeves           | .20   |
| S6306    | Defame    | 1        | Gasket for 262 hand hole plate                 | .20   |
| S6383    | Default   | 2        | Gasket for 238 diff. end plate                 | .30   |
| S6478    | Defaultis | 1        | Felt washer for clutch shaft S6046B            | .10   |
| S6480    | Defect    | 1        | Pulley shaft inner retainer                    | .35   |
| S6508    | Defile    | 1        | Gasket for 569 shifter housing                 | .25   |
| S6518A   | Defer     | 1        | Bull pinion washer                             | .15   |
| S6527    | Deflect   | 1        | Gasket for 220 trans. case cover               | .25   |
| S6575    | Defrand   | 3        | Oil check ring drive stud                      | .15   |
| S6587    | Defaun    | 2        | Bull pinion screw clip                         | .15   |
| S27126   | Defunct   | 1        | Hyatt bearing for pulley shaft gear end        | 6.70  |
| S27132   | Degarnish | 2        | Hyatt bearing for differential shaft inner end | 8.85  |
| S27176   | Degust    | 1        | Hyatt bearing for pulley shaft pulley end      | 10.15 |
| S27182   | Deglut    | 2        | Hyatt bearing for differential shaft outer end | 14.15 |

## Bell Housing and Control Group

See Fig. 8 in Instruction Book

|        |            |   |   |       |
|--------|------------|---|---|-------|
|        | Aacpromcak | 1 | Clamp screw for 505A 1/2x1 1/2" SAE hex. head cap screw | .05   |
| S229B  | Danish     | 1 | Bell housing  | 12.25 |
| S246D  | Aacpromd   | 1 | Clutch operating fork and clamp screw                   | 3.50  |
| S250B  | Aacpromda  | 1 | Clutch crank arm  | .90   |
| S252A  | Aacpryp    | 2 | Clutch rod fork   | 1.15  |
| S505A  | Aacpst     | 1 | Clutch operating lever                                  | 1.05  |
| S566B  | Aacpsu     | 1 | Bell housing hand hole cover                            | .75   |
| S616   | Aaecij     | 1 | Clutch lever bracket                                    | .65   |
| T637   | Aaedct     | 1 | Thrust collar for clutch shaft                          | .80   |
| S6004  | Aacpsve    | 2 | Clutch rod fork pin                                     | .15   |
| S6046B | Aacrowl    | 1 | Clutch shaft  | 6.10  |
| S6058B | Aacrib     | 1 | Main drive bevel pinion                                 | 10.25 |
| S6074C | Aacrest    | 1 | Clutch connecting rod                                   | .70   |
| S6079  | Aacrime    | 1 | Clutch shaft nut  | .05   |
| S6081B | Aacrisp    | 1 | Clutch handle   | .50   |
| S6221A | Aacrone    | 1 | Clutch operating shaft                                  | 1.00  |
| T6233A | Grooved    | 1 | Thrust bearing for clutch shaft                         | 3.95  |
| S6224B | Bjade      | 1 | Felt washer for bell housing                            | .10   |
| S6595  | Aacrowd    | 1 | Greaseless bushing in flywheel                          | 1.95  |
| S6616  | Aacrown    | 1 | Felt packing washer retainer                            | .10   |
| S27030 | Aaecfg     | 1 | Hyatt bearing for clutch shaft                          | 5.30  |

## Clutch Group

Model B-11 1/2 No. 5129 Twin Disc Clutch

See Fig. 8 in Instruction Book

This model engages by pulling lever on dash out of way from motor

|       |          |   |                             |       |
|-------|----------|---|-----------------------------|-------|
|       | Barendo  | 1 | Hub and back plate assembly | 17.25 |
| 100B1 | Bario    | 1 | P. O. hub                   | 11.00 |
| 109B1 | Barulet  | 1 | Back plate                  | 4.95  |
| 110B1 | Bathetic | 1 | Plate pins                  | .25   |
| 111B1 | Baton    | 1 | Plate key                   | .15   |
|       | Batonear | 1 | Adjusting yoke assembly     | 8.15  |
| 104B1 | Battue   | 1 | Adjusting yoke              | 4.15  |
| 103B1 | Batten   | 4 | Fingers                     | .55   |

Always Give Model and Tractor Number When Ordering Repairs

| Part No. | Code Word      | No. Req. | Name of Part                       | Price | Part No.                  |
|----------|----------------|----------|------------------------------------|-------|---------------------------|
| 106B1    | Bateau.....    | 4        | Finger pins.....                   | .15   | T5053                     |
| 105B1    | Beatific.....  | 1        | Cotters.....                       | .05   | R6141                     |
| 114B1    | Becket.....    | 1        | Adjusting lock pin.....            | .30   | T6141                     |
| 115B1    | Beduddle.....  | 1        | Adjusting lock pin spring.....     | .15   | TA6163                    |
|          | Bedreder.....  | 1        | Cone assembly.....                 | 10.65 | TA6166                    |
| 102B29   | Beebread.....  | 1        | Cone.....                          | 5.00  | GT6211                    |
| 117-C8   | Bedight.....   | 1        | Cone collar.....                   | 4.50  | TA6833                    |
| 118-C8   | Beget.....     | 2        | Bolts and nuts.....                | .10   | TA6836                    |
| 120      | Belial.....    | 2        | Shims.....                         | .15   |                           |
|          | Bediale.....   | 1        | Drive plate assembly.....          | 10.50 |                           |
| 116B1    | Begrime.....   | 1        | Driving plate.....                 | 2.50  |                           |
| 112B1    | Bellicose..... | 2        | Friction disc.....                 | 3.75  |                           |
| 122B1    | Bellana.....   | 12       | Tubular rivets.....                | .05   |                           |
| 108B1    | Beluga.....    | 1        | Floating plate.....                | 5.40  |                           |
| 113B1    | Beltone.....   | 4        | Release spring.....                | .25   |                           |
| 5129     | Bagnio.....    | 1        | Model B11 1/2 complete clutch..... | 40.00 | TA6830<br>TA6833<br>AF10B |

## Governor Group

See Fig. 7 in Instruction Book

|         |               |   |  |       |                  |
|---------|---------------|---|--|-------|------------------|
| 3-U-1   | Galiot.....   | 1 | No. 3x1 1/4" Taper pin.....                              | .05   |                  |
| 4-O     | Galinule..... | 4 | 1/4" SAE hex. nut.....                                   | .05   | 20" CV           |
| 5-W     | Gallnut.....  | 5 | 1/8" lockwasher.....                                     | .05   | D-624            |
| 8-M     | Gamma.....    | 1 | 1/2" SAE hex. cat. nut.....                              | .10   | D-594            |
| 20-V-06 | Gambit.....   | 5 | 1/8" S0-18 round head machine screw.....                 | .05   | C2016            |
| GT133   | Gaglion.....  | 1 | Control bell crank.....                                  | .25   | C-589            |
| GT134A  | Gauntry.....  | 1 | Speed control plunger.....                               | .20   | C-2750           |
| GT135   | Gaumut.....   | 1 | Gov. control bell crank pin.....                         | .10   | C-2283           |
| GT139   | Gambrel.....  | 1 | Top plate.....   | .60   | C-3296           |
| GT158B  | Gabbro.....   | 1 | Governor shaft.....                                      | 1.25  | C-3676           |
| GT159C  | Gader.....    | 1 | Fork and lever shaft.....                                | .35   | C-3977           |
| TA163   | Wain.....     | 2 | 1/2" ball bearing.....                                   | .40   | C-2389           |
| TA164   | Gaddbee.....  | 1 | 5/8" ball bearing.....                                   | .65   | C-2388           |
| TA165A  | Gadroon.....  | 2 | Governor ball pin.....                                   | .10   | C-3814           |
| TA169A  | Goffer.....   | 1 | Governor control spring.....                             | .15   | T6252            |
| TA171   | Baca.....     | 1 | Speed reg. nut.....                                      | .10   | B3949            |
| TA173   | Gala.....     | 1 | Governor fork pin.....                                   | .05   | 5356             |
| TA175A  | Bait.....     | 1 | Governor spring eye bolt.....                            | .10   | 2346A            |
| TA184   | Bano.....     | 2 | Toggle link.....   | .10   |                  |
| TA185   | Badera.....   | 2 | Toggle link pin.....                                     | .05   |                  |
| GT315C  | Gozzella..... | 1 | Fork and lever shaft housing.....                        | .50   |                  |
| TA316A  | Wimiper.....  | 2 | Fork and lever shaft bushing.....                        | .20   |                  |
| GT438C  | Gzela.....    | 1 | Governor housing.....                                    | 6.50  |                  |
| TA439D  | Gemel.....    | 1 | Governor housing cover.....                              | 2.25  | 41               |
| TA443A  | Geez.....     | 1 | Governor head.....                                       | .75   | S651A            |
| TA444A  | Gavial.....   | 2 | Governor ball.....                                       | .45   | TA652            |
| TA445   | Geest.....    | 1 | Governor sleeve.....                                     | .65   | S653             |
| TA446C  | Gecko.....    | 1 | Governor fork.....                                       | .45   | TA6166           |
| GT447C  | Gehia.....    | 1 | Governor lever.....                                      | .30   | S6533E           |
| GT448A  | Gemsbok.....  | 1 | Spring housing.....                                      | 3.25  | TA6801           |
| TA489A  | Genesis.....  | 1 | Throttle lever.....                                      | .30   | TA6801           |
|         |               |   | Complete governor including throttle valve assembly..... | 26.25 | TA6821<br>TA6822 |

## Throttle Valve Group

See Fig. 6 in Instruction Book

|        |             |   |   |      |      |
|--------|-------------|---|---|------|------|
| GT156E | Ajaunt..... | 1 | Butterfly shaft.....                            | .25  | 355  |
| GT449A | Bjaunt..... | 1 | Throttle valve body.....                        | 2.50 | X9   |
| T450B  | Thjarl..... | 1 | Throttle link.....                              | .45  | 235  |
| GT451D | Bjapan..... | 1 | Butterfly valve.....                            | .15  | T500 |
| T2334  | Bjasan..... | 1 | Gasket between throttle valve and manifold..... | .20  | 506  |

Always Give Model and Tractor Number When Ordering Repairs

| Part No. | Code Word | No. Req. | Name of Part  | Price |
|----------|-----------|----------|---|-------|
| T5053    | Bjambrose | 1        | Gasket between throttle valve and carburetor                | .20   |
| R6141    | Bjalap    | 1        | Felt washer   | .05   |
| T6141    | Bjames    | 1        | Asbestos washer   | .05   |
| TA6168   | Bjetty    | 2        | Ball bearings   | .45   |
| TA6160   | Bjocko    | 2        | Ball joints   | .40   |
| GT6213C  | Bjimson   | 1        | Throttle rod  | .20   |
| TA6833   | Bjoke     | 1        | $\frac{3}{8}$ " SAE cat. nut                                | .05   |
| TA6836   | Bjolly    | 1        | Cap plate   | .05   |
|          |           | 1        | $\frac{3}{8}$ " SAE cat. nut                                | .05   |
|          |           | 4        | $\frac{1}{4}$ " SAE hex. nut                                | .05   |
|          |           | 1        | $\frac{1}{4} \times \frac{5}{8}$ " round head machine screw | .05   |
|          |           | 1        | 10-24 $\times \frac{3}{4}$ " round head machine screw       | .05   |
|          |           | 1        | 10-24 hex. nut  | .05   |
|          |           | 1        | $\frac{1}{2} \times \frac{1}{2}$ " woodruff key             | .05   |
|          |           | 2        | 8-32 $\times \frac{1}{2}$ " brass screws                    | .05   |
| TA6830   | Bjonah    | 1        | Butterfly shaft machine washer                              | .05   |
| TA6831   | Bjohn     | 1        | Butterfly shaft machine tension washer                      | .05   |
| AF10B    | Bjingle   | 1        | Complete throttle valve assembly                            | 4.50  |

## Automotive Fan Parts B3949

See Fig. 4 in Instruction Book

|        |          |   |  |       |
|--------|----------|---|--|-------|
| 20" CW | 2A Xebec | 1 | Blade assembly                             | 3.50  |
| D-624  | Xenon    | 4 | Cap screw                                  | .15   |
| D-594  | Xylic    | 4 | Lock washer                                | .10   |
| C2016  | Xyloid   | 1 | Gasket                                     | .15   |
| C-589  | Xyst     | 1 | Oil plug                                   | .10   |
| C-2750 | Xylem    | 1 | Slotted nut                                | .15   |
| C-2283 | Edil     | 1 | Cotter pin                                 | .10   |
| C-3296 | Durar    | 2 | Timken bearing assembly                    | 1.85  |
| C-3676 | Ecumol   | 1 | Hub  | 3.35  |
| C-3977 | Edad     | 1 | Spindle                                    | 3.05  |
| C-2389 | Dosm     | 1 | Felt retaining washer                      | .25   |
| C-2388 | Dulcera  | 1 | Felt retainer                              | .35   |
| C-3814 | Donde    | 1 | Felt washer                                | .20   |
| T6252  | Dona     | 1 | Leather fan belt                           | 3.50  |
| B3949  | Doneda   | 1 | Complete fan without bracket and eccentric | 10.00 |
| 5356   | Donedat  | 1 | Fan bracket                                | 5.00  |
| 2346A  | Adona    | 1 | Fan eccentric                              | 2.50  |

## Governor Control Group

|        |           |   |                                    |      |
|--------|-----------|---|------------------------------------|------|
| 41     | Dietary   | 1 | Governor control complete assembly | 2.50 |
| S651A  | Dieses    | 1 | Governor control segment           | .80  |
| TA652  | Differ    | 1 | Governor control bell crank        | .60  |
| S653   | Difficult | 1 | Governor control bracket           | .60  |
| TA6169 | Diffuse   | 1 | Governor control spring            | .15  |
| S6533B | Dierffuse | 1 | Governor control cable             | .15  |
| TA6802 | Ware      | 1 | Governor control bell crank pin    | .05  |
| TA6803 | Warm      | 1 | Governor control friction spring   | .05  |
| TA6824 | Warren    | 1 | Governor control segment pin       | .05  |
| TA6825 | Warrior   | 1 | Governor control friction pin      | .05  |

## Set of Tools for 16-32 Tractor

|      |  |   |   |      |
|------|--|---|---|------|
| 355  |  | 1 | Mossberg ratchet handle                               | 1.55 |
| X9   |  | 1 | Mossberg adjustable wrench                            | .65  |
| 235  |  | 1 | S wrench $\frac{1}{2}$ " and $\frac{3}{4}$ " openings | .65  |
| T500 |  | 1 | Front wheel hub cap wrench                            | .60  |
| 506  |  | 1 | 6" sure grip pliers                                   | .35  |

Always Give Model and Tractor Number When Ordering Repairs.



| Part No. | Code Word | No. Req. | Name of Part                  | Price | Part No. |
|----------|-----------|----------|-------------------------------|-------|----------|
| 351      |           | 1        | Socket extension              | .75   | S6253    |
| 402      |           | 1        | Hex. spark plug 29/32" socket | .35   | S6254    |
| 1        |           | 1        | Alligator wrench              | .20   | S6250    |
| 1500     |           | 1        | Steel oiler                   | .25   | S6250    |
| 271      |           | 1        | S wrench                      | .50   | S6299    |
| 276      |           | 1        | S wrench                      | .50   | S6300    |
|          |           | 1        | 31/32" socket                 | .25   | S6301    |
|          |           | 1        | 25/32" socket                 | .25   | S6302    |
|          |           | 1        | 1 1/8" socket                 | .25   | S6303    |
|          |           | 1        | 1 1/4" socket                 | .25   | S6304    |
|          |           | 1        | 5/8" socket                   | .25   | S6305    |
|          |           | 1        | 1/2" socket                   | .25   | S6388    |
|          |           | 1        | 1 1/4" socket                 | .25   | S6478    |
|          |           | 1        | 7/8" SAE Champion Spark Plug  | .90   | S6480    |
|          |           | 1        | No. 5 Elliot Screw driver 6"  | .30   | S6508    |
|          |           | 1        | Dixie Switch Key              | .75   | S6518    |
|          |           | 1        | Magneto wrench                | .50   | S6527    |
| AB11     |           |          | Tool box                      | 2.50  | S6577    |
| 1043     |           | 1        | Alemite Grease Gun            | 2.00  | S6587    |

## Main Frame Group

See Fig. 15 in Instruction Book

|         |           |   |                           |       |
|---------|-----------|---|---------------------------|-------|
| S406C   | Discharge | 1 | Front plate               | 15.00 |
| S620A   | Aakern    | 1 | Motor bracket             | 1.85  |
| S6235E  | Aaaken    | 1 | R. H. channel             | 8.40  |
| S6236E  | Aaken     | 1 | L. H. channel             | 8.40  |
| 6524B   | Aekerl    | 1 | Front motor bracket shims | .15   |
| 8-A-22  | Aakev     | 2 | Bolts for 620A            | .10   |
| 10-E-21 | Aakeemp   |   | Main frame rivets         | .10   |

## Radiator Group

|        |          |   |                                     |       |
|--------|----------|---|-------------------------------------|-------|
| BC109  | Aaaken   | 2 | 1/2" radiator drain cock            | .75   |
| S6200C | Aakeeper | 1 | Perfex radiator                     | 66.75 |
| S6200D | Aajess   | 1 | Perfex radiator on twin block motor | 66.75 |
| T6339  | Bjoint   | 2 | Radiator springs                    | .15   |
| T6356A | Calomel  | 1 | Radiator cap. oval type             | .75   |
| S6494  | Eve      | 2 | Radiator cap screws                 | .20   |
| S6510  | Aakeel   | 1 | Upper radiator hose                 | .55   |
| S6511  | Aaakarn  | 1 | Lower radiator hose                 | .75   |
| S6579A | Bjerk    | 1 | Radiator anchor strap               | .25   |

## Front Axle Group

See Back Cover of Instruction Book

|        |            |   |                                   |       |
|--------|------------|---|-----------------------------------|-------|
| T232B  | Discursive | 2 | Steering arm                      | 1.95  |
| S240A  | Disdain    | 1 | Front axle                        | 18.50 |
| S241A  | Disease    | 2 | Steering knuckle                  | 8.75  |
|        |            |   | Specify right or left             |       |
| S287B  | Disembody  | 1 | Steering bell crank               | 4.75  |
| S482A  | Disenable  | 2 | Front wheel hub cap               | 1.20  |
| S534   | Disengage  | 2 | Front wheel dust ring             | .75   |
| S573A  | Aakible    | 1 | Center tie rod fork               | 1.05  |
| S574A  | Aaakid     | 2 | Tie rod fork                      | 1.35  |
| T3120  |            |   |                                   |       |
| T3196  | Bjimson    |   | Small timken bearing              | 3.50  |
| T3520  |            |   |                                   |       |
| T3554  | Bjean      |   | Large timken bearing              | 4.60  |
| S6008A | Disgrace   | 3 | Tie rod fork pin                  | .75   |
| T6007A | Disguise   | 1 | Steering bell crank pin           | .45   |
| S6042  | Dishevel   | 2 | Steering knuckle shaft            | 1.20  |
| S6133A | Dishful    | 1 | Bell crank ball                   | .60   |
| S6189B | Disinter   | 1 | King bolt                         | 1.25  |
| T6191  | Disincline | 2 | Washer for steering knuckle shaft | .05   |

Always Give Model and Tractor Number When Ordering Repairs.



| Part No. | Code Word      | No. Req. | Name of Part                        | Price |
|----------|----------------|----------|-------------------------------------|-------|
| T6192A   | Disjoin.....   | 2        | Nut for steering knuckle shaft..... | .10   |
| S6239    | Dismast.....   | 2        | Front wheel.....                    | 25.65 |
| S6229    | Dismal.....    | 2        | Felt washer for front wheel.....    | .10   |
| S6430    | Bjolly.....    | 1        | L. H. tie rod.....                  | .80   |
| S6431    | Dismember..    | 1        | R. H. steering knuckle tie rod..... | .60   |
| S6432    | Dismort.....   | 1        | L. H. steering knuckle tie rod..... | .45   |
| S6568    | Disobey.....   | 3        | Tie rod fork dowel.....             | .10   |
| S6569    | Disorder....   | 4        | Steering knuckle shaft dowel.....   | .15   |
| S6570    | Disown.....    | 2        | King bolt dowel.....                | .20   |
| S6573    | Dispair.....   | 4        | Steering knuckle bushing.....       | .30   |
| S6574    | Disparate... 2 |          | Steering arm bushing.....           | .15   |
| A-336    | Dickler.....   | 2        | 1/8" Straight alemite fitting.....  | .15   |
| A-358    | Dieler.....    | 1        | 1/8" Elbow alemite fitting.....     | .20   |
| A-359    | Diltong.....   | 6        | 1/4" —45 degree street ell.....     | .15   |

## Shifter Housing Group

See Back Cover of Instruction Book

|       |               |   |  |       |
|-------|---------------|---|--|-------|
| M40   | Diabolic..... | 1 | Shifter assembly.....                  | 15.20 |
| S214  | Diaconal....  | 1 | High and reverse gear shifter.....     | 3.00  |
| S215  | Diadem.....   | 1 | Low speed gear shifter.....            | 2.75  |
| S583  | Diagonal....  | 1 | Cover for shifter housing.....         | .35   |
| S569A | Diagram.....  | 1 | Shifter housing.....                   | 3.95  |
| 6017  | Bjaw.....     | 1 | Shifter lever bracket pin.....         | .20   |
| S6063 | Bjavelin....  | 1 | High and reverse gear shifter rod..... | .35   |
| S6064 | Diagraph....  | 1 | Shifter rod low speed.....             | .45   |
| S6004 | Dial.....     | 1 | Low gear shifter rod.....              | .35   |
| S6415 | Dialect.....  | 1 | Ring for gear shifter handle.....      | .85   |
| S6434 | Dialist.....  | 1 | Fulcrum ball for shifter handle.....   | .35   |
| S6435 | Dialog.....   | 1 | Hand ball for shifter handle.....      | .40   |
| S6437 | Diarist.....  | 1 | Shifter rod locking plug.....          | .10   |
| S6449 | Diariel.....  | 1 | Shifter rod locking plug.....          | .10   |
| S6467 | Diaper.....   | 1 | Locking ball for shifter rod.....      | .05   |
| S6492 | Diamond....   | 2 | Spring for shifter rod ball.....       | .05   |
| S6500 | Diaphram... 1 |   | Fulcrum ball fastening pin.....        | .05   |
| S6514 | Diary.....    | 1 | Gear shifter handle.....               | .90   |
| S6520 | Diable.....   | 2 | Screws for shifter rod springs.....    | .15   |
| S6633 | Dalyer.....   | 1 | Shifter lock bracket pin.....          | .30   |
| A1T59 | Diastole....  | 1 | Air relief valve gasket.....           | .05   |
| A1T60 | Diant.....    | 1 | Air relief valve.....                  | .05   |

## Steering Column Group

|        |                 |   |                                     |      |
|--------|-----------------|---|-------------------------------------|------|
| S217B  | Dispassion... 1 |   | Steering column bracket.....        | 1.75 |
| T218   | Dispel.....     | 1 | Steering wheel.....                 | 3.35 |
| S6108  | Dispense....    | 1 | Steering wheel shaft.....           | 1.25 |
| S6133B | Dispeople... 1  |   | Drag link ball.....                 | .45  |
| S6166  | Dispirit....    | 1 | Steering spindle drag link.....     | 1.15 |
| S6198  | Displace....    | 1 | Steering column pipe.....           | 1.45 |
| T6285  | Disport....     | 1 | Steering column pipe cap.....       | .55  |
| S6496  | Dispute....     | 1 | Steering shaft coupling sleeve..... | .50  |
| S6498  | Disregard... 1  |   | Pin for steering gear.....          | .05  |
| T259   | Bkaaba.....     | 1 | Handle for steering wheel.....      | .25  |
| T6032  | Bkafir.....     | 1 | Steering wheel handle pin.....      | .15  |

## Gasoline Tank Group

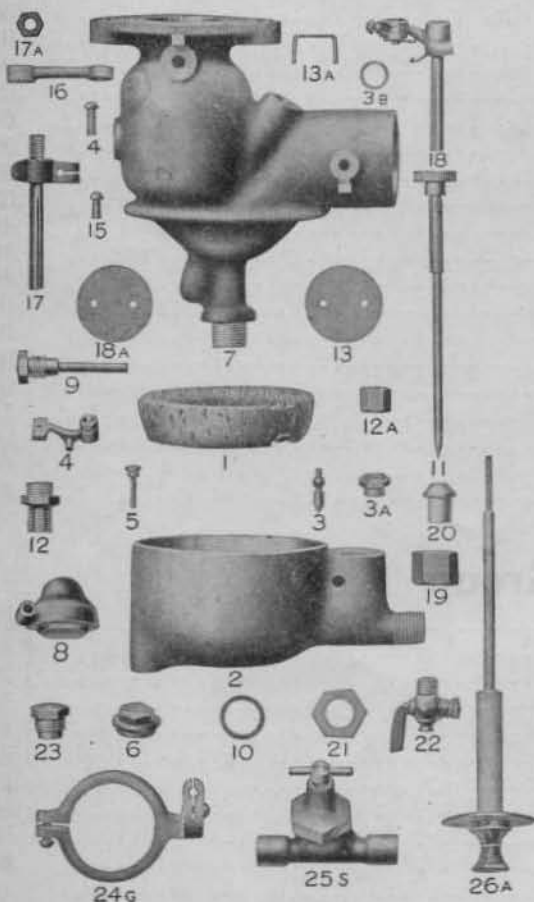
|       |              |   |   |       |
|-------|--------------|---|---|-------|
|       |              |   | Gasoline tank filler hole cover.....              | .35   |
| S41   | Fajadura.... | 1 | Needle valve complete with fitting and guide..... | 1.85  |
| ZA171 | Falange....  | 1 | Needle valve guide.....                           | .15   |
| ZA172 | Falaz.....   | 1 | Brass stuffing nut.....                           | .15   |
| JR173 | Falca.....   | 1 | Needle valve stem.....                            | .20   |
| S340  | Falcidia.... | 1 | Gasoline tank (stripped).....                     | 10.75 |

Always Give Model and Tractor Number When Ordering Repairs.

| Part No. | Code Word      | No. Req. | Name of Part  | Price | Part No. |
|----------|----------------|----------|---|-------|----------|
| S468     | Falicinel..... | 1        | Needle valve guide fitting.....                       | .75   | 1353     |
| S6217    | Falta.....     | 2        | Fuel tank saddle.....                                 | .75   | 1369     |
| S6226    | Falleba.....   | 1        | Gasoline tube $\frac{3}{8}$ "x $34\frac{1}{4}$ "..... | .40   | 1370     |
| S6412    | Famoso.....    | 2        | Fuel tank strap ends.....                             | .10   | 1771     |
| S6458    | Famulo.....    | 2        | Gasoline tank binding strap.....                      | .35   | 1774     |
| S6459    | Fanatico.....  | 1        | R. H. gasoline tank supporting angle.....             | .50   | 1775     |
| S6460    | Fengo.....     | 1        | L. H. gasoline tank supporting angle.....             | .50   | 1775A    |

## Carburetor Group

|        |                |   |  |       |      |
|--------|----------------|---|--|-------|------|
| 5053   | Expose.....    | 2 | Kingston carburetor model L-1 $\frac{1}{4}$ "..... | 16.65 | 2372 |
| S6291D | Expound.....   | 1 | Copper gasket for carburetor flange.....           | .80   | 2373 |
| T6077  | Experde.....   | 1 | Carburetor air tube.....                           | 1.50  | 3084 |
| S6390  | Expulse.....   | 1 | Lead seals.....                                    | .05   | 3546 |
| S6493A | Exquisite..... | 1 | Choke valve spring.....                            | .05   | 3633 |
| S6512  | Extant.....    | 1 | Choker hook.....                                   | .10   | 3692 |
| S6532  | Extensive..... | 1 | Carburetor air tube clamp $\frac{1}{2}$ ".....     | .25   | 4025 |
|        |                |   | Choker cable.....                                  | .25   | 5448 |



## Model L-3 Kingston Carburetor Parts

|      |                 |   |   |       |       |
|------|-----------------|---|---|-------|-------|
| S1   | Extol.....      | 1 | Float.....  | 1.15  | 2093  |
| S2   | Extorter.....   | 1 | Fuel chamber.....                                   | 7.50  | 2135  |
| S2B  | Extract.....    | 1 | Cork gasket.....                                    | .05   | 2337  |
| S3   | Extrador.....   | 1 | Fuel valve.....                                     | .45   | 21501 |
| S3A  | Extraneous..... | 1 | Fuel valve seat.....                                | .40   | 3103  |
| S4   | Extreme.....    | 1 | Float lever.....                                    | .25   | 3634  |
| S5   | Extrude.....    | 1 | Float lever shaft.....                              | .25   | 3717  |
| S6   | Exude.....      | 2 | Float lever screw and nut.....                      | .05   | 4029  |
| S7   | Eult.....       | 1 | Mixing chamber.....                                 | 9.00  | 5473  |
| S8   | Exutony.....    | 1 | Air valve.....                                      | 1.50  | 6-431 |
| S9   | Exuvial.....    | 1 | Air valve shaft.....                                | .50   | T003  |
| S10  | Eye.....        | 1 | Gasket (mixing chamber).....                        | .25   | T030  |
| S11  | Eyeball.....    | 1 | Needle valve (adjusting).....                       | .75   | T602  |
| S12  | Eye brow.....   | 1 | Needle valve guide.....                             | .60   | T616  |
| S12A | Eyelid.....     | 1 | Needle valve lock nut.....                          | .25   |       |
| S18  | Facil.....      | 1 | Choke throttle lever stem and spring asse.....      | .75   |       |
| S18A | Facistol.....   | 1 | Choke throttle gate.....                            | .30   |       |
| S18B | Factoria.....   | 1 | Staple choke throttle gate.....                     | .05   |       |
| S19  | Facula.....     | 1 | SAE fuel connection nut.....                        | .40   |       |
| S20  | Facundo.....    | 1 | Fuel intake elbow.....                              | .30   |       |
| S21  | Facha.....      | 1 | Lock nut (fuel chamber).....                        | .25   |       |
| S22  | Fachenda.....   | 1 | Drain valve body.....                               | .20   |       |
| S22A | Fadado.....     | 1 | Drain valve needle.....                             | .15   |       |
| S23  | Faisan.....     | 1 | Air valve stop.....                                 | .40   |       |
|      |                 |   | Carburetor complete model L-3 $1\frac{1}{2}$ "..... | 16.65 |       |

## Air Washer Parts

|       |               |   |                             |      |  |
|-------|---------------|---|-----------------------------|------|--|
| A251  | Ajoy.....     | 1 | Air washer body.....        | 5.75 |  |
| A2T2  | Quack.....    | 1 | Air washer body cover.....  | 3.50 |  |
| A2S6A | Aajowl.....   | 1 | Outlet elbow.....           | .65  |  |
| A2S7A | Quadric.....  | 1 | Air inlet fitting.....      | .65  |  |
| A2T8A | Quadrill..... | 2 | Drain hole cover clamp..... | .15  |  |

Always Give Model and Tractor Number When Ordering Repairs

| Part No. | Code Word | No. Req. | Name of Part   | Price |
|----------|-----------|----------|--|-------|
| A2T9     | Quadroon  | 2        | Drain hole and filler cover                                | .10   |
| A2T11    | Quaff     | 1        | Filler fitting   | .40   |
| A2T12    | Qualify   | 1        | Water gauge body   | .55   |
| A2S15    | Qualm     | 1        | Inlet screen cover   | .85   |
| A2S50    | Quanite   | 1        | Spray tube   | 1.75  |
| A2T51    | Quarter   | 1        | Water gauge cap  | .20   |
| A2T52    | Quartile  | 2        | Water gauge screws   | .10   |
| A2T53    | Quartern  | 1        | Water gauge glass  | .25   |
| A2T54    | Quarto    | 2        | Water gauge glass gasket                                   | .05   |
| A2T55    | Quartum   | 2        | Water gauge body gasket                                    | .05   |
| A2T56    | Quarris   | 2        | Drain and filler cover gasket                              | .05   |
| A2T67    | Quaver    | 2        | Spring for drain hole cover                                | .15   |
| A2T74    | Quay      | 1        | Water separator complete                                   | 1.85  |
| A2T74A   | Queasy    | 1        | Water separator (washer board)                             | .65   |
| A2T79A   | Quenelle  | 1        | Water deflector  | .80   |
| A2T80    | Querciner | 1        | Water deflector bracket                                    | .10   |
| A2S81    | Querist   | 1        | Air inlet screen   | .45   |
| A2S82    | Query     | 2        | Inlet screen cover stud                                    | .10   |
| S6291D   | Aajove    | 1        | Steel tube   | 2.50  |
| T660     | Aajot     | 2        | Air washer packing sleeve                                  | .40   |
| S661     | Aajoss    | 1        | Carburetor fitting   | 1.00  |
|          | Quene     | 6        | $\frac{1}{8}$ "x1 $\frac{1}{4}$ " SAE hex. head cap screw  | .05   |
|          | Queutis   | 10       | $\frac{1}{8}$ " lock washers                               | .05   |
|          | Quinic    | 6        | $\frac{1}{8}$ " hex. SAE nuts                              | .05   |
|          | Quipu     | 1        | $\frac{1}{4}$ "x $\frac{5}{8}$ " round head machine screws | .05   |
|          | Quoit     | 1        | $\frac{1}{4}$ " lock washer                                | .05   |
|          | Quiver    | 1        | $\frac{1}{4}$ " U. S. jamb nut                             | .05   |
|          | Quiesce   | 2        | $\frac{1}{8}$ "x1" U. S. cap screw hex.                    | .05   |
| A2S75    | Aajolt    | 2        | $\frac{1}{2}$ "x1 $\frac{1}{4}$ " 13 thread cap screws     | .05   |
|          | Quillai   | 2        | $\frac{1}{2}$ " plain washers                              | .05   |
|          | Quinary   | 2        | $\frac{1}{8}$ " wing nuts                                  | .05   |
|          | Quoinery  | 2        | $\frac{1}{8}$ "x1" fill head cap screws                    | .05   |
|          | Quitrent  | 1        | Complete air washer and fittings                           | 30.00 |

## Rear Axle and Platform Group

See Fig. 18 in Instruction Book

|        |           |    |  |       |
|--------|-----------|----|--|-------|
| C41    | Bkeel     | 1  | Platform assembly                              | ...   |
| S248A  | Epsome    | 1  | Rear axle housing                              | 35.00 |
| S256   | Aajwa     | 2  | Rear axle cap                                  | .75   |
| S273B  | Equerry   | 2  | Bull gear                                      | 20.50 |
| S563   | Equipage  | 1  | L. H. platform support bracket                 | 3.80  |
| S564   | Era       |    | R. H. platform support bracket                 | 4.60  |
| S570   | Eradicate | 2  | Final drive oil supply fitting                 | 1.15  |
| S601   | Erasor    | 2  | Rear wheel hub caps                            | 1.00  |
| S605A  | Aajilt    | 2  | Final drive gear thrust washer $\frac{1}{2}$ " | 1.20  |
| S619   | Bkepi     | 1  | Draw bar guide                                 | 2.85  |
| S622   | Aajig     | 1  | Draw bar post                                  | .30   |
| S632   | Aajibe    | 2  | Draw bar slide rail spacing collar             | .20   |
| S6105A | Aajib     | 1  | Platform plate                                 | 17.25 |
| S6107  | Ergot     | 1  | R. H. platform angle                           | 2.40  |
| S6120A | Aajeu     | 1  | Draw bar angle                                 | 4.55  |
| S6142  | Error     | 2  | Rear axle cap pins                             | .10   |
| S6181  | Eruca     | 1  | L. H. platform angle                           | 2.40  |
| S6210  | Erndate   | 1  | Rear axle shaft                                | 25.35 |
| S6227  | Eruptive  | 2  | Felt strip for 6420                            | .35   |
| S6234  | Escalop   | 2  | Washer for rear axle                           | .35   |
| S6237C | Aajet     | 1  | Rear wheel R. H. drilled for 2" lug spacing    | 57.50 |
| S638C  | Aajest    | 1  | Rear wheel L. H. drilled for 2" lug spacing    | 57.50 |
| S6240  | Escort    | 1  | Forward bottom angle                           | 1.75  |
| S6241A | Aajess    | 1  | Sliding draw bar                               | 2.35  |
| S6242A | Aajerk    | 1  | Drawbar slide rail                             | 1.50  |
| S6420A | Aajelly   | 2  | Final drive gear housing                       | 15.80 |
| S6421  | Aajeer    | 2  | Final drive gear housing plate                 | 8.50  |
| S6455B | Aajiel    | 16 | Final drive gear studs                         | .25   |

Always Give Model and Tractor Number When Ordering Repairs



| Part No. | Code Word | No. Req. | Name of Part                       | Price | Part No. |
|----------|-----------|----------|------------------------------------|-------|----------|
| S6501    | Estimate  | 2        | Cab and platform strip             | .35   | 236      |
| S6519    | Estop     | 2        | Oil ring for bull gear housing     | .60   | 304      |
| S6597    | Aajean    | 1        | Draw bar bushing                   | .05   | 386      |
| S6599    | Aajay     | 2        | Draw bar brace                     | .90   | 403      |
| S49655   | Estreat   | 2        | Hyatt roller bearing for rear axle | 9.00  | 551      |

## Hood and Fender Group

|        |           |   |                                  |       |     |
|--------|-----------|---|----------------------------------|-------|-----|
| A42    | Aajava    | 1 | Center hood bow assembly         | 4.25  | 213 |
| S290   | Enring    | 2 | Dash bracket                     | .75   | 217 |
| S289   | Aajarl    | 4 | Corner castings                  | .40   | 238 |
| S587A  | Aajar     | 1 | Dash                             | 10.30 | 238 |
| S656   | Bkck      | 1 | Dash extension                   | 1.75  | 238 |
| T6035  | Bkidnap   | 1 | Hood rod guide studs             | .30   | 238 |
| S6083A | Aajam     | 2 | Top hood bow                     | .60   | 304 |
| S6084A | Aajalap   | 2 | Right and left hood side member  | 1.40  | 386 |
| S6143  | Entarl    | 1 | R. H. cab side sheet             | 4.35  | 523 |
| S6144  | Entagle   | 1 | L. H. cab side sheet             | 4.90  | 534 |
| S6145  | Enter     | 1 | R. H. fender                     | 2.40  | 535 |
| S6146  | Enthall   | 1 | L. H. fender                     | 2.40  | 535 |
| S6153  | Enthrone  | 1 | L. H. outside angle for fender   | .80   | 551 |
| S6154  | Entice    | 1 | R. H. inside angle for fender    | .85   | 815 |
| S6155  | Deky      | 1 | Top angle for dash               | .75   |     |
| S6156  | Entrance  | 1 | R. H. bottom angle for fender    | .30   |     |
| 6157   | Entrak    | 1 | L. H. bottom angle for fender    | .30   |     |
| S6276B | Aajail    | 1 | R. H. rear roof sheet            | 1.75  |     |
| S6287  | Eplia     | 1 | R. H. corner filler for fender   | .35   |     |
| S6288  | Ephemera  | 1 | L. H. corner filler for fender   | .35   |     |
| S6411  | Ekeystone | 1 | U. S. oil gauge                  | 2.50  |     |
| S6428  | Ephod     | 1 | R. H. outside angle for fender   | .85   | 107 |
| S6429  | Epic      | 1 | L. H. inside angle for fender    | .95   | 177 |
| S6461A | Aajag     | 1 | R. H. front roof sheet           | 1.80  | 236 |
| S6462A | Ekermes   | 1 | L. H. front roof sheet           | 1.80  | 236 |
| S6463B | Aajacle   | 1 | L. H. rear roof sheet            | 1.75  | 379 |
| S6202  | Ekemel    | 2 | Oil line clips                   | .15   | 388 |
| S6665  | Ekaro     | 1 | R. H. center hood fastening clip | .25   | 402 |
| S6666  | Ekeen     | 1 | Rear hood fastening clip         | .25   | 403 |
| S6667  | Ekeaver   | 1 | L. H. center hood fastening clip | .25   |     |

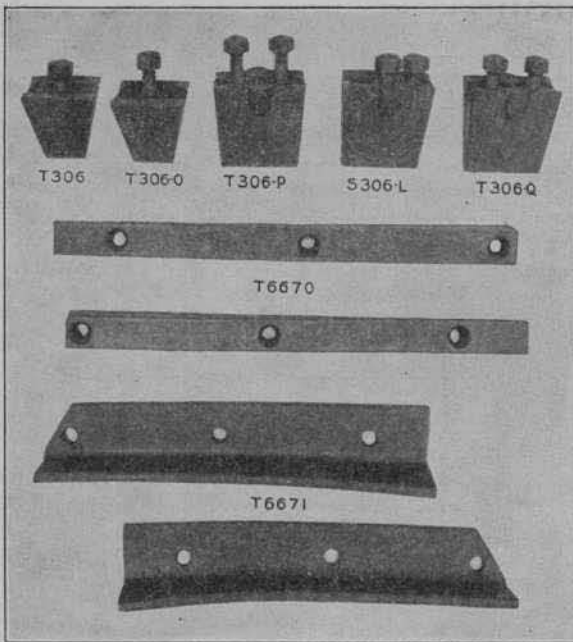
## Seat Post Group

|       |          |   |                      |      |     |
|-------|----------|---|----------------------|------|-----|
| T455  | Lentando | 1 | Seat post bracket    | 5.00 | B7  |
| T456  | Lumbagon | 1 | Seat post flange     | .60  | 174 |
| T457  | Lettuce  | 1 | Seat post collar     | .45  | 174 |
| T6015 | Aahome   | 1 | Seat post collar pin | .05  | 174 |
| S6140 | Libbard  | 1 | Seat post            | 1.75 | 174 |
| T6202 | Aahamec  | 1 | Upper seat post pin  | .05  | 175 |
| T6203 | Aahamede | 1 | Lower seat post pin  | .05  | 175 |
| T6269 | Lifeboy  | 1 | Pressed steel seat   | 1.75 | 175 |
| T6270 | Lignum   | 1 | Seat spring          | 1.00 | 175 |

Always Give Model and Tractor Number When Ordering Repairs.



## Tractor Lugs



| Part No.  | Code Word     | No. Req. | Name of Part                               | Price  |
|---|---------------|----------|--|--------|
| S306L   | Rclag.....    | 64       | Farm tractor lug closely spaced studs..... | \$ .70 |
| T306Q   | Rcatigate.... | 64       | Farm tractor lug wide spaced studs.....    | .75    |
| Balance of lugs illustrated are not used on 16-32 tractor.... |               |          |  |        |

## Pulley Brake Group

See Fig. 4A in Instruction Book

|        |              |   |                                  |      |
|--------|--------------|---|----------------------------------|------|
| S280   | Rclaw.....   | 1 | Pulley brake with lining.....    | 2.95 |
| S633   | Rcarman....  | 1 | Pulley brake pedal.....          | 1.05 |
| S634   | Rcavil.....  | 1 | Pulley brake bracket.....        | 1.30 |
| T6016A | Rchock.....  | 1 | Pulley brake bracket pin.....    | .45  |
| T6075A | Bicker.....  | 1 | Pulley brake connecting rod..... | .30  |
| T6177  | Bufocal..... | 1 | Pulley rod yoke pin.....         | .10  |
| T6178  | Bilge.....   | 1 | Pulley rod yoke.....             | .35  |
| S6274B | Rcark.....   | 1 | Pulley brake lining.....         | .65  |
| S6633  | Rcare.....   | 1 | Pulley brake pedal hanger.....   | .45  |
| S6669  | Rcity.....   | 1 | Spring for pulley brake.....     | .20  |

## Ignition Group

|       |              |   |  |       |
|-------|--------------|---|--|-------|
| JR90  | Aahmog.....  | 1 | Fanstock terminal for magneto.....             | .10   |
| JR180 | Aahamak....  | 1 | Spring for spark adjusting handle.....         | .10   |
| T6208 | Aahmor.....  | 1 | Spark adjusting rod.....                       | .10   |
| T6209 | Aahmos.....  | 1 | Spark adjusting handle and nut.....            | .10   |
| S6509 | Aahmot.....  | 1 | Switch wire.....                               | .50   |
| T6528 | Rcornet..... | 2 | Spark plug cable No. 1 and No. 4 cylinder..... | .40   |
| T6529 | Rclause..... | 2 | Spark plug cable No. 2 and No. 3 cylinder..... | .40   |
|       |              | 1 | Dixie magneto model 46c.....                   | 60.00 |
| 18276 | Aahmube....  | 1 | Splitdorf switch.....                          | 1.95  |
| 18348 | Aahmud.....  | 1 | Splitdorf switch key.....                      | .75   |
|       |              |   | 7/8" SAE champion spark plug.....              | .90   |

Always Give Model and Tractor Number When Ordering Repairs.

# Steering Gear Group

| Part No. | Code Word | No. Req. | Name of Part               | Price | Part No. |
|----------|-----------|----------|----------------------------|-------|----------|
| B-8      | Bgoffer   | 1        | Ball arm special           | 4.75  |          |
| S-B-8    | Bgemsl    | 1        | Trunnion shaft             | 12.95 |          |
| S-B-9    | Bgadroid  | 2        | Trunnion shaft blocks      | 1.00  |          |
| S-B-37   | Bgecko    | 2        | Trunnion shaft bushing     | 1.70  |          |
| S1578    | Bgehia    | 1        | Trunnion shaft lock washer | .10   | 1105     |
| S1579    | Bgerboil  | 1        | Trunnion shaft nut         | .30   | 1374     |
| S1603    | Bgolfer   | 1        | Grease cup                 | .30   | 2155     |
| S1616    | Bgala     | 4        | Housing cap screw nuts     | .10   | 5350     |
| S1617    | Bgzela    | 4        | Housing cap screw          | .15   | 8-913    |
| S1619    | Bgambit   | 1        | Grease plug                | .10   |          |
| S1700    | Bgeez     | 1        | Housing                    | 6.40  | 2323     |
| S1701    | Bgeest    | 1        | Housing cap                | 4.85  | 2326     |
| S1702    | Bgerbille | 1        | L. H. sliding head         | 8.35  | 2330     |
| S1702    | Bgeryon   | 1        | R. H. sliding head         | 8.35  | 2377     |
| S1703    | Bgerent   | 1        | Worm                       | 9.20  | 3003     |
| S1707    | Bgamma    | 1        | Adjusting screw lock nut   | .60   | 3580     |
| S1725    | Bagliot   | 1        | Adjusting screw            | 1.25  | 3023     |
|          |           |          |                            |       | 3634     |
|          |           |          |                            |       | 4071     |

6-17  
1097  
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2322  
3003  
3023  
3025  
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1715  
1837  
2008  
2009  
2087  
2088  
2096A

Always Give Model and Tractor Number When Ordering Repairs.

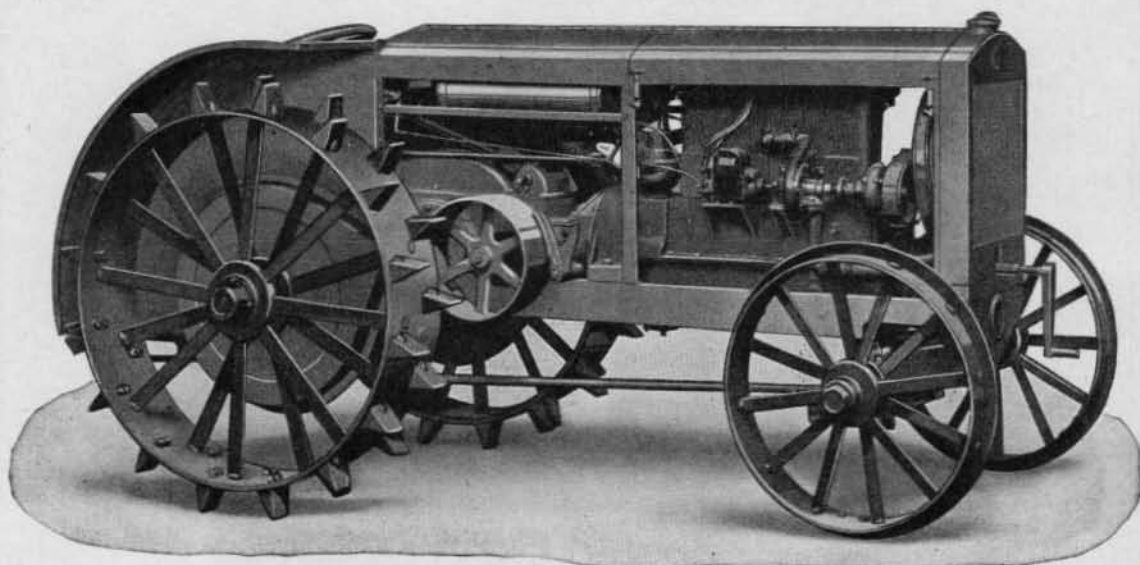
*Exhibit F.*

Instruction Book  
*for the*  
**LAUSON**  
*20-35*  
**16-32**  
**Tractor**

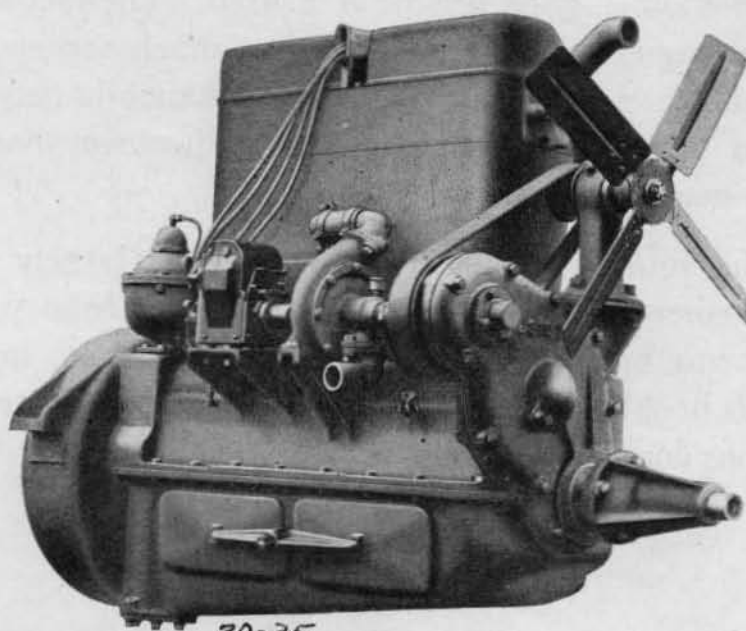
*April 10*  
*1927*

**THE JOHN LAUSON MFG. CO.**  
NEW HOLSTEIN, WIS., U. S. A.

Printed in U.S.A.



20-35  
The ~~16-32~~ Farm Tractor



20-35  
The ~~16-32~~ Valve in Head Motor



## PREPARING THE TRACTOR FOR WORK

### Attention Needed

Before trying to do any actual work, the operator should thoroughly familiarize himself with all its parts also its method of control and care. Do not take out your new machine and put it to your hardest work immediately after taking it home, but rather work it lightly for a day or two until all of the parts have found

themselves. A little care exercised on a new machine will be amply repaid later.

Remember that although the machine has been designed to require a minimum amount of attention, such attention as is required must, however, be given freely.

Before starting your tractor be sure that you have given careful attention to the four things you must do before starting the motor.

### FOUR THINGS TO DO BEFORE STARTING MOTOR

1. Close all drain cocks. There are two cocks on left hand side of cylinder, one cock in bottom of water pump and another below on the pipe from pump to radiator.

2. Fill radiator with clean water, rain water if possible. Ordinary well water is liable to contain foreign matter which is liable to clog up radiator.

3. Examine the amount of oil in the crankcase by opening pet cocks on rear left side of motor. Oil should run out of bottom cock. If crankcase has been filled with two gallons of oil it should drip from top pet cock. The engines are filled with two gallons at the factory, but the amount should be checked as some may have been stolen in shipment.

4. Remove the valve covers from top of motor and oil rocker arms with an oil can. This is only necessary on a new motor or on one that has stood idle for several weeks or longer. Normally, the valve mechanism is oiled from the crankcase automatically.

### Lubrication in Service

Correct lubrication is essential to the long life and satisfactory performance of any tractor. The following instructions should be followed consistently. Remember that good oil is cheaper than repairs—if you neglect lubrication with good oil, you may have to spend money for repairs and new parts that could have been saved with a little care and good oil.

### Engine Crankcase

We recommend the use of Gargoyle Mobiloil "BB" in summer, and Gargoyle Mobiloil "A" in winter (where average weather is below freezing) or high grade oils of similar body and character. When the weather is below 0°F., use Gargoyle Mobiloil Arctic.

The oils recommended have been chosen because they best meet the operating conditions of our engines. As the choice of the correct grade of oil is a matter dependent on many factors of design and service, we feel that you will get best results by using those specified since we are in the best position to consider the engineering and technical phases of the subject.

### Draining Crankcase

As the oil gradually accumulates fuel, foreign matter and impurities in service, the crankcase should be drained regularly and refilled with fresh oil as recommended above. When gasoline is used as fuel, drain after every 50 hours of operation. If kerosene is used as fuel, drain after every 10 hours of operation. Do not flush the crankcase with kerosene when draining it.

### Oil Screen

Twice a year the oil screen should be removed from the bottom of the crankcase and thoroughly washed in kerosene or gasoline.

### Replenishment

Examine the oil level daily by testing the petcocks and add enough oil to bring the level to the top petcock. Do not overfill as this causes excessive consumption. Do not allow the level of the oil to fall below the bottom petcock as this may result in scored piston and cylinder walls, or burned out bearings.

### Water Pump

Screw down the grease cups on the water pump every day, and refill the cups when empty with a good grade of grease, such as Mobilubricant.

### Fan

Oil the fan bearing every time the crankcase is drained. Engine oil should be put in the oil hole in the fan hub.

### Magneto

Put three or four drops only of light engine oil in the magneto oil holes, every month. The magneto needs very little oil.

### Governor

Oil the governor daily thru the snap oiler on top of it, using engine oil.

### Transmission Bull Gears, Etc.

In transmission or gear case use Mobiloil "C" or equivalent. Keep oil level high enough so that lower edge of main drive bevel gear, No. 6057 Fig. 11 dips into the oil at least one inch.

Bull gear housing No. 478 should also be supplied with Mobiloil "C" or equivalent. Convenient filling holes are provided on top of housing directly over bull pinions. Use about two quarts for each housing.

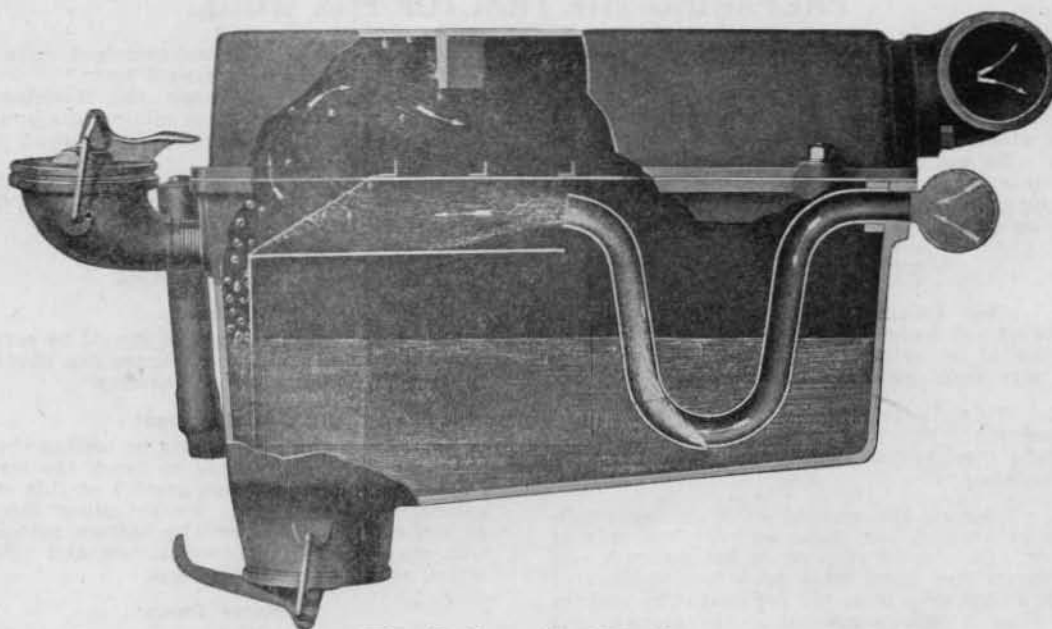
Oil in bull gear housings should be changed occasionally to insure long life. Although they are made dust proof as possible a small amount of grit will eventually work into them. Also natural wear will leave foreign matter in the oil. Changing the oil after a month's plowing or field work will insure clean oil and life of gears will be prolonged. All late date tractors are equipped with drain plugs in bull gear housing.

### Third: Fuel

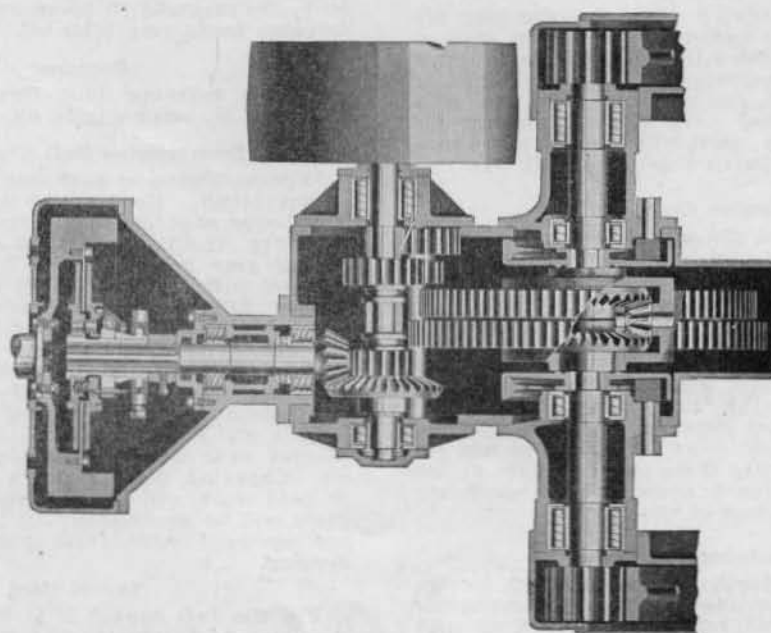
Fill the fuel tank. It is best to strain the gasoline and be sure it contains no water. The water will be at the bottom of your filling can.

### Fourth: Fill Air Washer

Supply water to the siphon air washer. Note level of water in gauge glass. Fill in water



**The Siphon Air Washer**



**The Improved Transmission**

until water shows up to top gauge glass. Never run tractor without water in air washer.

After having done these four things motor is ready to start. Open needle valve on carburetor about one and one half times. Place governor control lever on steering column about in center of the segment. Pull out choker on front plate at right hand of starting crank. This closes the air choker in carburetor. Pull up three times on starting crank. Do not try spinning motor. Release choker on front plate. Insert switch lever on dash and turn to starting

position. Pull up once more on starting crank and motor should start.

To stop motor throw off switch on dash.

Do not attempt to start motor by first putting switch in starting position and then hooking up the choker.

This is liable to flood the motor and prevent starting. Always start as per above directions. Never push down on starting crank. This is dangerous for in case of pre-ignition it is liable to result in a broken arm. Always start by upward pulls.

## TO PUT TRACTOR IN MOTION

Engage the gears by moving the gear set lever on the dash to the proper slot. These are marked; high, low and reverse. Then pull the clutch lever towards the rear allowing the clutch to engage slowly and evenly. When the clutch is engaged it will remain in this position until released.

When shifting gears from high to low or reverse the clutch must be disengaged before the gears can be shifted. Never shift gears with pulley running. Stepping on the foot pedal at right of steering column will apply the brake

and stop the pulley. If gears do not shift easily never attempt to force them. By engaging clutch just a little the gears can be rotated very slowly until the teeth are in position to slide into mesh and will shift without forcing.

A tractor is ordinarily driven in high gear, the lower speed gear being used for negotiating steep grades or extremely hard spots which require more power and since it is for this purpose that low speed gears are provided, the driver should not hesitate to use them. It is bad practice to strain engine in trying to pull in high gear where lower gear should be used.

## THINGS TO WATCH WHEN OPERATING TRACTOR

Lubrication is the most important point to watch on a tractor. Therefore when operating tractor watch the oil gauge on dash. Oil pressure on gauge should register fifteen pounds or more. Do not run motor if oil pressure is too low.

If oil pressure goes below ten pounds examine oil line for leak; if found to be leak proof examine main and connecting rod bearings. If these are loose adjust same and oil pressure should go up.

If all connections have been looked over and oil pressure is still too low it can be raised by screwing up screw No. 5447 on by pass valve of oil pump. See Fig. 1. This oil pump can be

gotten at by removing rear hand hole cover of crank case.

Watch the amount of water in gauge of air cleaner. This is important, for the air cleaner if kept properly supplied with water will prevent almost all dust and grit from entering motor and thereby save the motor from the otherwise resultant destructive wear. Be sure and have water in the radiator at all times. Remember that to allow water to get too low will cause overheating. Whenever possible use rain water only. Hard water or dirty water is liable to clog up the radiator and engine and cause **overheating**.

In freezing weather when no dust is present it is safe to run tractor without water in air washer and thus avoid water freezing in same.

## CLEAN AIR WASHER

When operating tractor under conditions where floating particles of chaff or thistledown are present as in threshing, air cleaner should

be occasionally cleaned by removing upper half and cleaning screen of all foreign matter.

Clogged air washer will cause loss of power and irregular running of motor.

## KEEP FAN BELT TIGHT

Cooling is mainly accomplished by a current of air through radiator produced by a belt driven fan. It is therefore, important to keep fan belt tight in order that a proper current of air thru radiator is maintained. Be careful not to accidentally or by rough handling bend the blades of the fan out of shape. Inspect them frequently. They should be of correct shape

and curvature. Fan blades bent and damaged are the most frequent causes of overheating. In cold weather water should be drained from motor and radiator when not running to prevent cracking by frost. To drain motor and radiator, open cocks under radiator and water pump at left hand side of cylinder. Air washer should also be drained in cold weather.

## MISSING MOTOR

Never allow the motor to run unless all cylinders are firing. If one cylinder misses, that is, does not fire its charge of gas it can easily be noticed by the irregular pulsation of the motor. The cause should at once be located and corrected. Give spark plugs your first attention and clean them thoroughly. To do this

it is best to take them apart and clean off all carbon and oil residue. The porcelain should receive special attention and all carbon wiped off with a piece of waste soaked in gasoline. It is not considered good practice to remove carbon from porcelain with a piece of emery cloth since this is liable to mar and scratch the

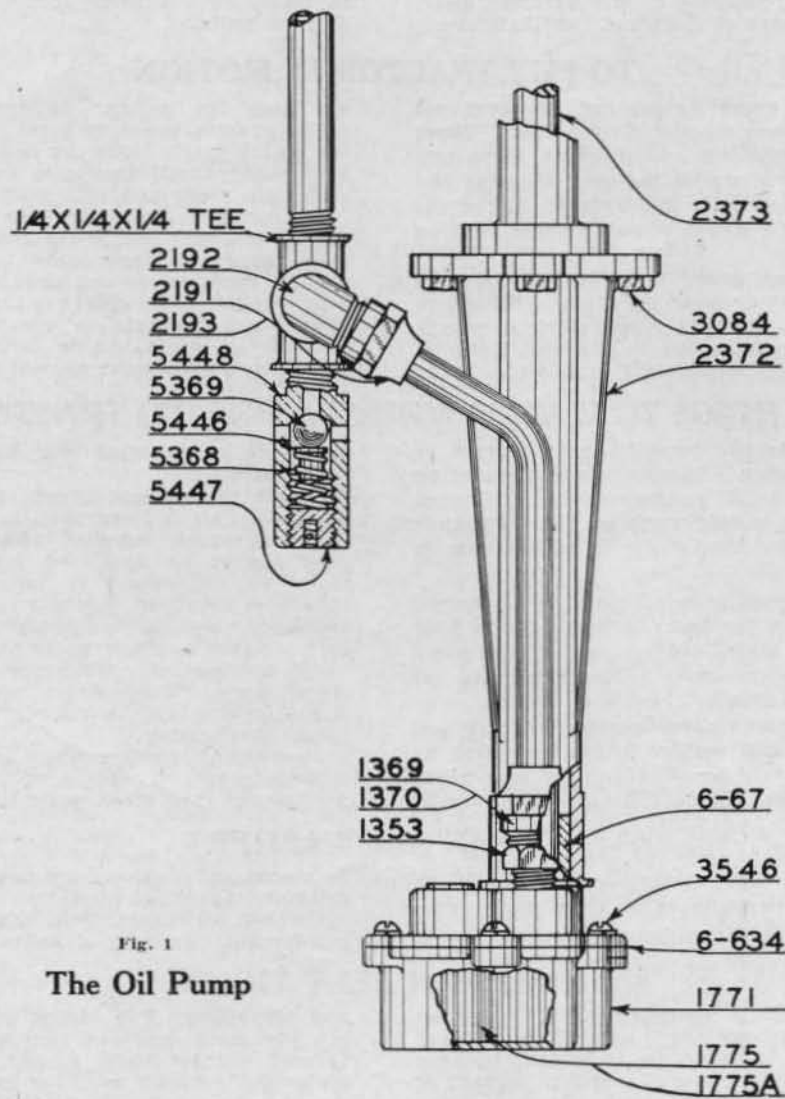


Fig. 1  
The Oil Pump



porcelain surface and thus invite a fresh accumulation of carbon when plug is replaced. Look carefully for cracked porcelains. Cracked porcelains should be discarded and new plugs or porcelains installed.

Missing motor is sometimes caused by one cylinder having no compression due to a bit of carbon or foreign matter lodged under valve

head. Try compression by turning motor over slowly (Switch should be off when doing this) and note where there is a resistance due to compression at every one half revolution of the starting crank. When there is not compression remove head and examine valve. (See page 16 Regrinding valves.) Regrind same and remove carbon.

## HOW TO CARE FOR AND ADJUST THE TRACTOR

Lubrication is of the greatest importance. This item has been treated previously and a few additional hints is all that is deemed necessary. It is necessary to exercise great care in winter especially when tractor has been standing idle for some time. The oil in pump will congeal or stiffen in cold weather and it is best to drain it all out when tractor is laid up for some time. When starting up again in cold weather, heat the oil slightly before pouring into the motor in order to make sure that lubrication

will start as soon as motor is started. If motor is started with oil frozen and stiff serious damage to bearings is liable to result.

When motor has stood idle for some time it is also a good practice before starting again to remove each spark plug and put a little oil into each cylinder with an ordinary oil can.

Oil screen No. 2190A on base of motor should be occasionally removed and cleaned. It is located on bottom of motor. To remove screen, remove hexagon head cap screws holding plate to motor.

## CHANGE OIL IN BULL GEAR HOUSINGS

Oil in bull gear housing should be changed occasionally to insure long life. Although they are made as dust proof as possible a small amount of grit will eventually work into same. Also natural wear will leave abrasions in the

oil. Changing the oil after a month's plowing or field work will insure clean oil and life of gears will be prolonged. All late date tractors are equipped with drain plugs in bull gear housings.

## SETTING UP BEARINGS ON LAUSON BEAVER MOTORS

See Figs. 2 and 3.

All machinery is subject to wear, and no matter how well built and how large and ample bearings are, the time will come when they must be set up, and all slack looseness taken out of them.

On our Motors this is easily accomplished by removing the bottom pan, whereby all bearings are exposed, and when the work can be readily done.

To remove pan first loosen front motor bracket No. 620A, see Fig. 15, and slide it forward about 2" so motor will rest on same and next remove all cap screws from pan and remove same.

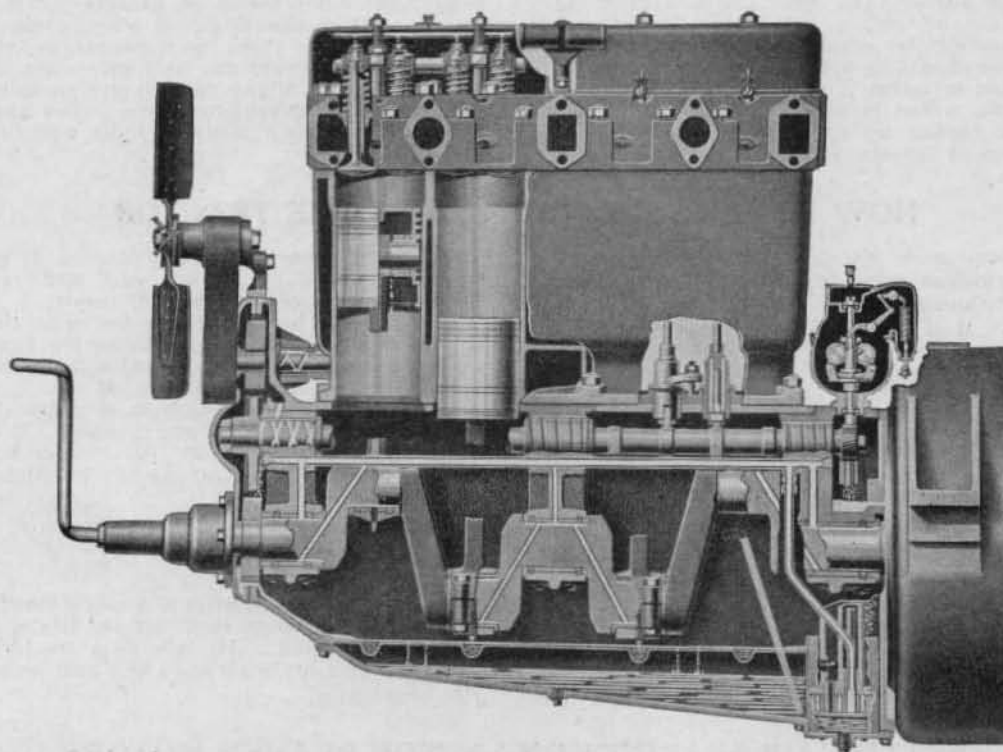
The crankshaft and connecting rod bearings are now exposed very nicely and can be worked on to advantage. Remove all connecting rods with their pistons attached from the engine. They will slide out the bottom end of cylinder very easily. Carefully note whether these pistons are numbered. If not, it is best to mark them so that they may be returned to their respective cylinder. Also mark them as to their position in the cylinders in order that they may not be turned. They should go back just as they came out.

After all pistons have been removed it is now best to set up the main bearings as there will now be no hindrance of the connecting rods dragging thereon. Start with the flywheel bearings. Note how loose the shaft is and remove enough shims from each side of the cap as you deem in your judgment is best. Then replace, tighten all nuts carefully, and be careful to have them good and tight and try to spin the shaft by taking hold of the flywheel. If the flywheel

can be spun very easily take off the cap and remove another light shim from each side and replace as before. This should be repeated until it can be noted that the flywheel can hardly be turned. It is at this point that the final close adjustment should take place. A light shim should either be replaced or renewed until the flywheel can very easily be turned by taking hold of it with the hands.

It is always best to remove enough shims at first to get the shaft tight and keep on replacing possibly a shim at a time until just the right tightness has been secured. When cap is in place and nuts screwed down, strike the cap with a block of wood or a mallet. Never use a steel hammer as this is liable to distort the cap. Also when making a trial adjustment, cap should always be given a couple of blows with a mallet as this will assist materially in securing a good fit. Do not in any case attempt to secure the correct adjustment by varying the tension of the nuts. Nuts should be turned down as tight as they will go and the correct adjustment must be always secured by inserting or removing shims.

After this flywheel bearing has been properly set up loosen the nuts on the bearing but do not take the cap off, and proceed to set up the next bearing. It is very important that the nuts in the flywheel bearing should be loose when setting up the center bearing or front bearing, in order not to be misled by the tightness in the flywheel bearings. Set up the center bearing in the same manner and when the correct set up has been arrived at, loosen this also and then set up the front bearing in a like manner. After the front bearing has been thoroughly



**Cut Open Motor**

adjusted keep it tight and insert split keys in each stud. Tighten up the center and flywheel bearing and insert split keys also. Then again try the flywheel. Even with the friction of the three bearings the flywheel should be easily turned.

The next step is to set up the connecting rod bearings. In setting up connecting rod bearings do not push the piston up into the cylinder but put the rod onto the shaft and let the piston hang to one side. Now remove shims and proceed in the same manner as you would with the main bearings.

Connecting rods should be set up just so tightly that if the rod is lifted up to one side the weight of the piston should easily bring the rod down to a hanging position. It is well to be very careful that the shims are all properly placed upon the studs and that none of the steel shims scrape against the crankshaft. If they do, they should be carefully filed or cut off.

When adjusting caps to rods and after nuts have been screwed down strike both cap and rod a few blows with a mallet or block of wood. This tends to "right" the cap and assists materially in the adjustment. However, never use a steel hammer for this purpose as this will be liable to distort the cap and result in poor bearing fit.

After one connecting rod has been carefully set up remove it from the shaft and lay it aside. Proceed the same way with the next and so on

until all have been carefully set up, being careful to keep their respective shims. After this has been done the last connecting rod worked on can now be loosened, the piston entered in the cylinder, cap put in place, all nuts screwed tight as they will go and secured with cotter pins. Replace the other three pistons in a like manner, being very careful to put them back in the cylinder the way they came out.

We would once more warn against the practice of securing correct adjustment by loosening the nuts a trifle when bearing is a little too tight. This should never be done. Enough shims should be supplied so that the nuts can be screwed down as tight as they will go. The practice of loosening the nuts even a trifle is liable to result in a very serious accident. Engines have been completely wrecked on account of thus neglecting this item.

In setting up bearings be very careful about all small items. Be careful not to nick up the crankshaft bearings or damage them in any way. In setting up bearings be sure to slush every bearing with oil. Before replacing pistons each piston should be carefully cleaned, carbon removed from its closed end, thoroughly slushed with oil as well, before replacing.

Also, the lower crankcase should now be carefully examined, old oil removed, the pan very carefully cleaned out, the pump screen removed, also carefully cleaned, and all exposed parts carefully examined for any possible break or defect.

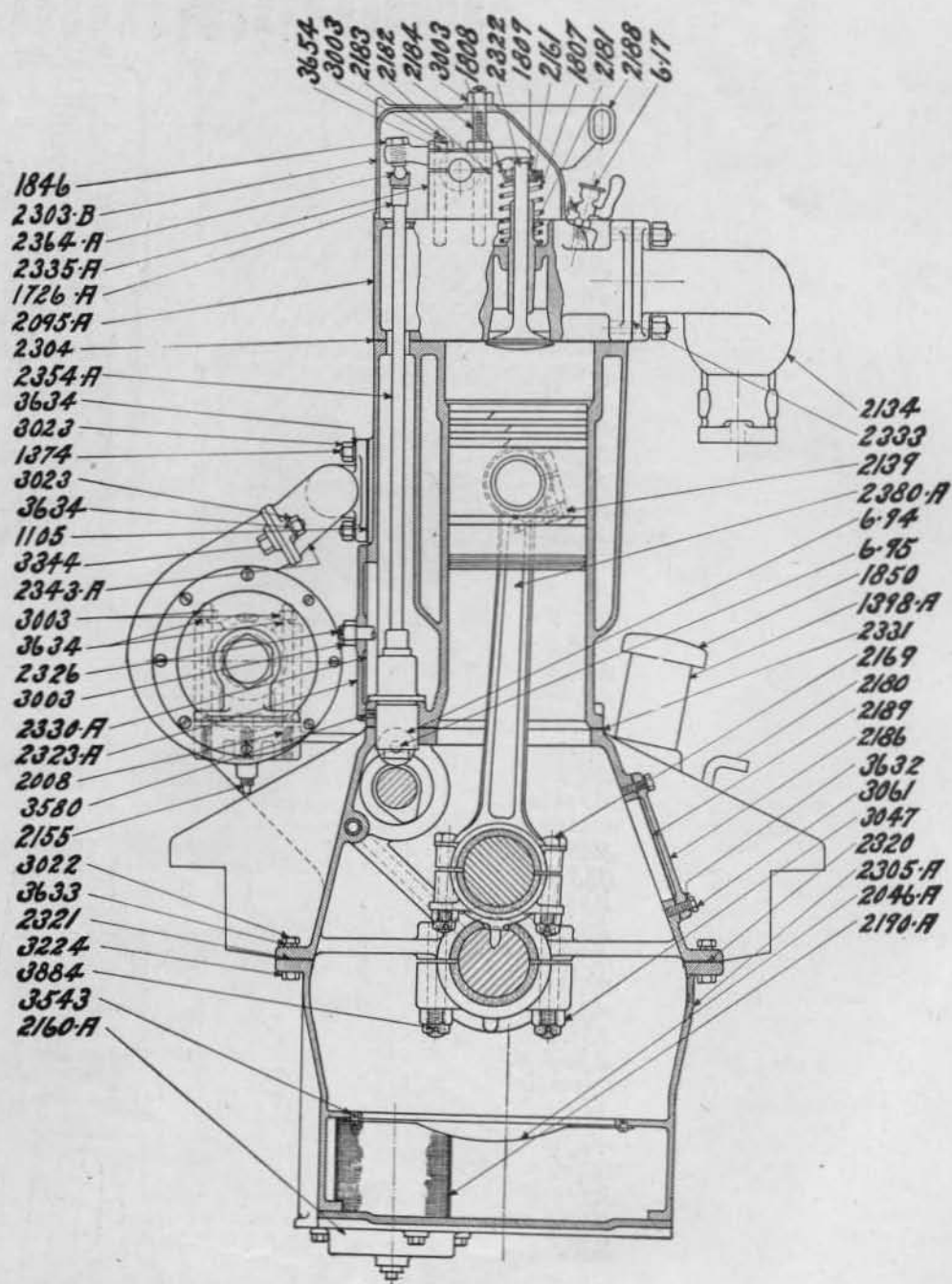


Fig. 2



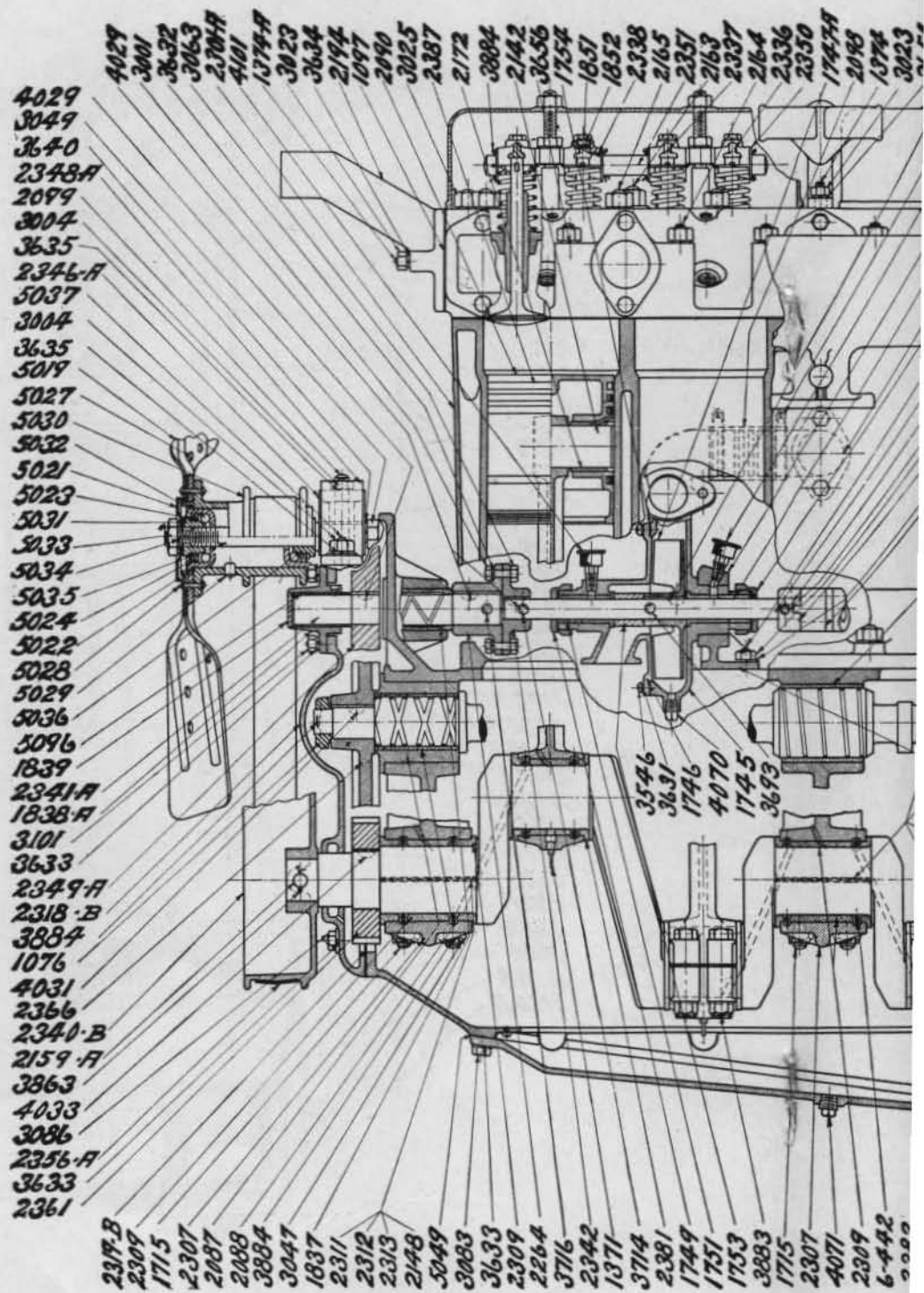
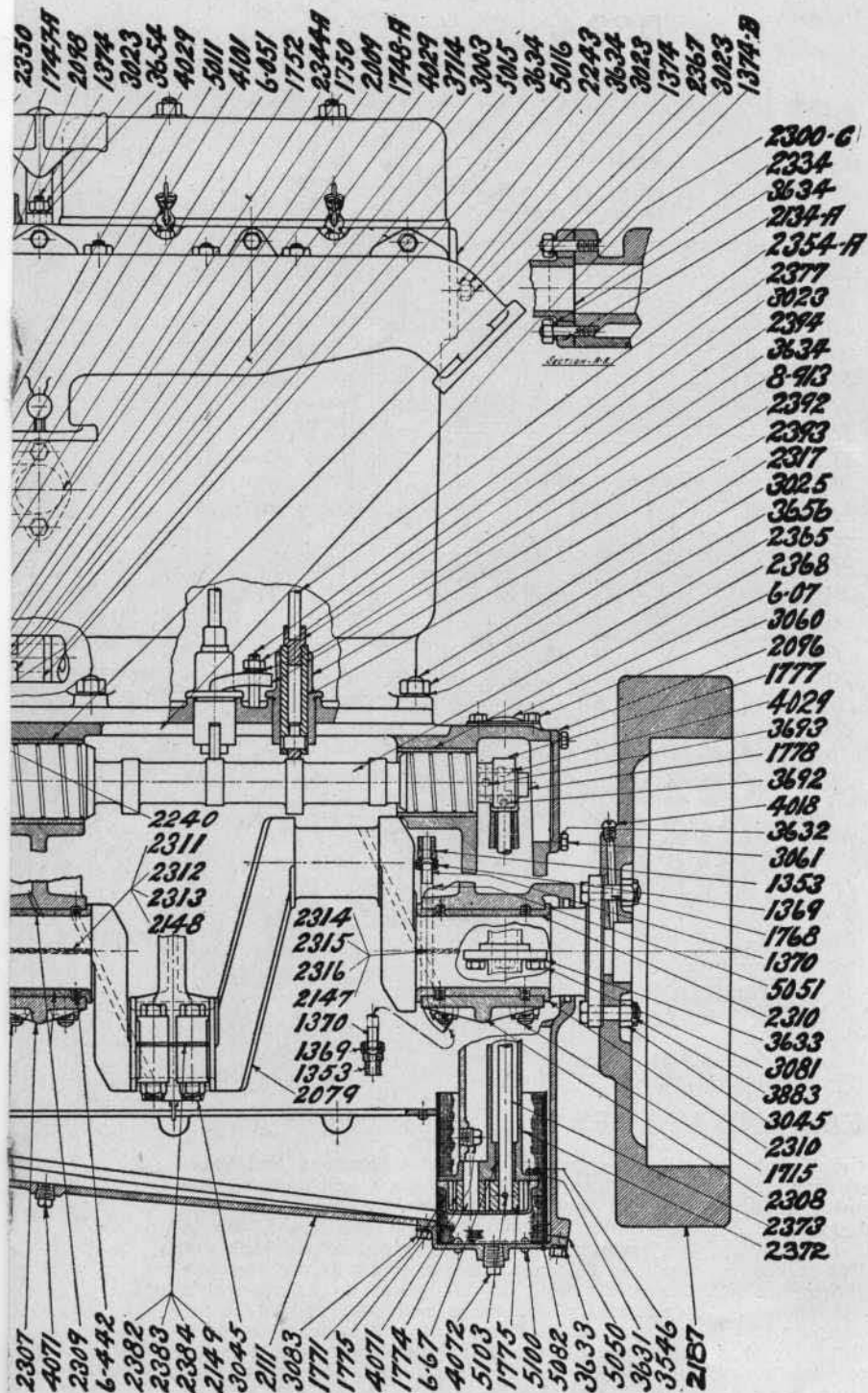


Fig. 3





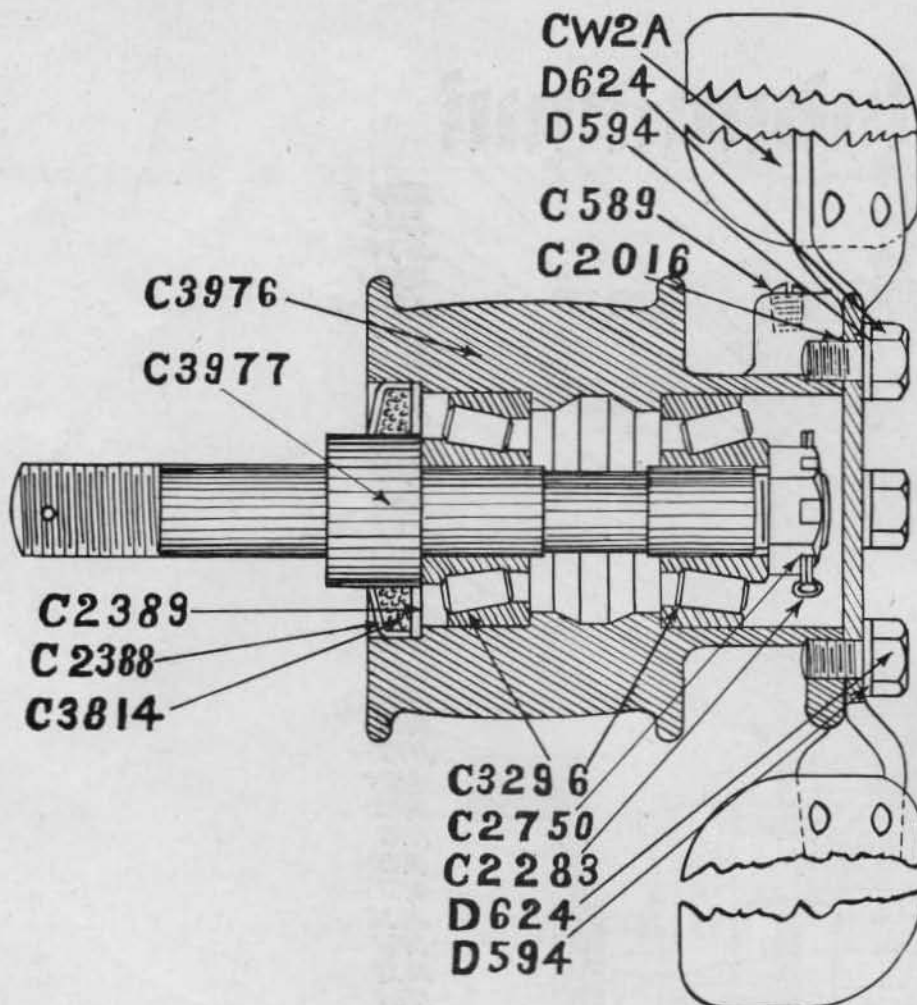


Fig. 4

### The Fan

## HEAD AND VALVES

Head should be removed, valves reground and carbon cleaned out about every 200 hours of running. Don't think because the motor still runs nicely that valves do not need regrounding. If regrounding is delayed valves will pit and warp badly, frequently making renewal of valves necessary and sometimes the head. If they are ground frequently, only slight labor is necessary to put them back into first class shape. If delayed it is a long and tiresome job.

When removing head never wedge chisels, screw drivers or any metal tool between head and cylinders. This will seriously damage the packing surfaces and result in a leaky head. Remove head by tapping with a block of wood at the same time turning motor against compression.

To reground valves remove springs and valve caps. Carefully clean off stem and head so that they are free from carbon. Apply a thin coat of grinding compound or oil and fine emery to the bevel face of the valve and rotate back and forth on the seat. Use a screw driver or screw driver bit held in bit brace to rotate valve. Occasionally the valve and seat should be inspected and condition noted. Do not attempt to grind out all the little pin points as this is not necessary. After a good seat has again been secured clean off the valve and seat and replace. When replacing head be sure to have face of head and cylinder perfectly clean. Wash with gasoline and brush off. Do not screw nuts down solidly one at a time but gradually draw all of them up.

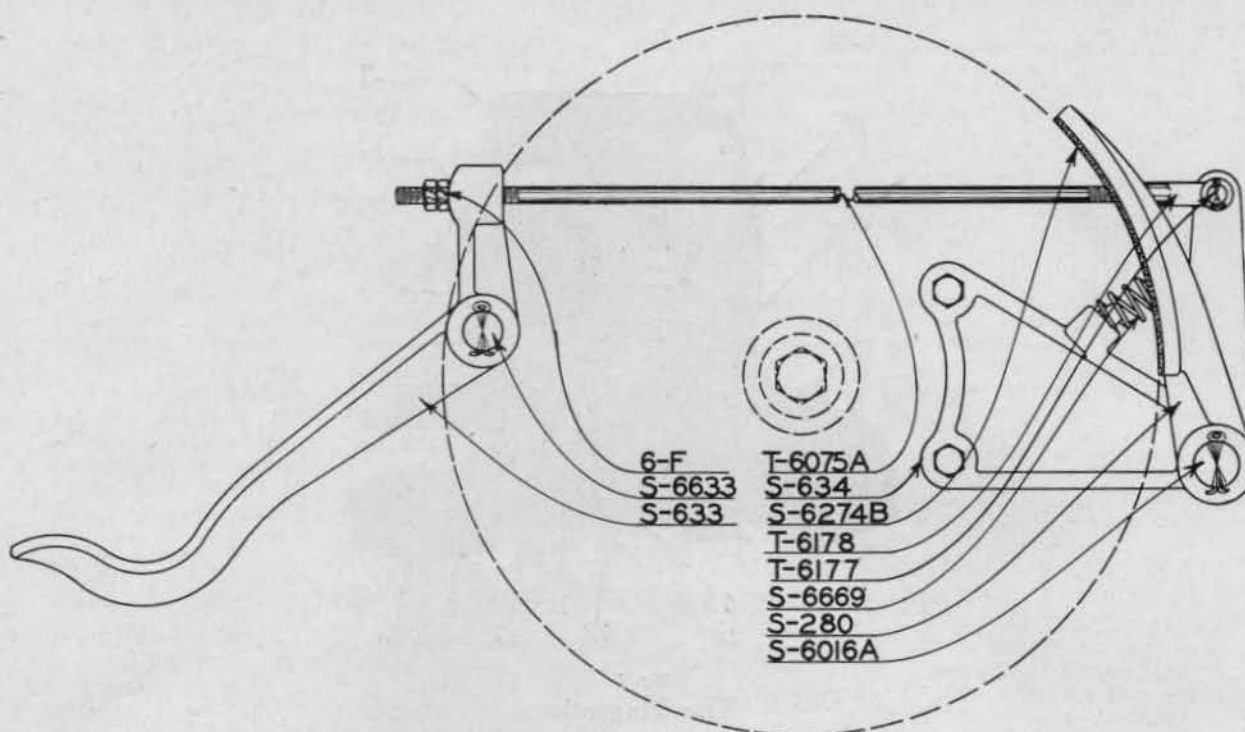


Fig. 4A

## Pulley Brake

## PUSH ROD ADJUSTMENT

Push Rod adjustment is provided for by adjusting screws in the rocker arms. By this means the proper clearance between rocker arms and valve stems may be maintained. All valves

in the closed position may be adjusted. The proper adjustment is between .005 and .008 of one inch clearance for both intake and exhaust valves when the motor is hot.

## MAGNETO INSTRUCTIONS

**LUBRICATION:** The magneto requires very little lubrication—two or three drops of good quality light machine oil in the oil cups every 100 hours is sufficient. More oil than this will cause difficulties. When the Magneto is not provided with oil cups, the bearings are packed in grease and lubrication is not necessary.

**INTERRUPTER:** The interrupter contacts should be open about 1/64 of an inch the thickness of the gauge on the Bosch Magneto adjusting wrench, when the fiber block on the interrupter lever rests in the center of one of the cams on the interrupter housing. On those magnetos supplied with a cam ring, the contact point opening should be adjusted to the proper distance when the interrupter lever fiber block is on the highest portion of the ring. Proper adjustment may be made by loosening the lock nut on the long contract screw and turning the screw in the proper direction, with the Bosch Magneto Wrench. Be sure to tighten

the lock nut after the adjustment has been made.

If the surface of platinum interrupter contact points becomes pitted, re-surface with a fine flat jeweler's file or a piece of fine sand paper, never use emery cloth on platinum contact points.

Tungsten contact points may be re-surfaced with very fine emery cloth or against the side of a fine emery wheel, finishing on an oil stone. A fine carborundum stone is better for the work.

**SPARK PLUG SETTING:** In order to insure proper functioning of the Magneto, the distance between the electrodes of the spark plug should not be less than 1/50 of an inch. This distance varies according to the individuality of the engine. Too wide a spark plug gap will cause difficulty in starting an engine and missing at low speeds; it therefore is especially important that the plugs be examined occasionally to see that the gap is not too great.



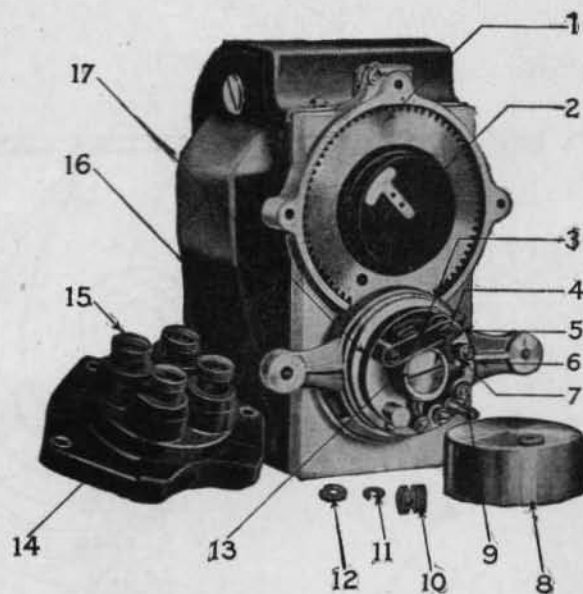


Fig. 5

## The Magneto

### HOW TO TIME THE MAGNETO

To determine whether the magneto is timed correctly, open the priming cups and turn the Flywheel until No. 4 exhaust valve has closed. (No. 4 exhaust valve is the one next to the Flywheel). The flywheel is marked TC 1 and 4 which means that the No. 1 and No. 4 pistons are at the "Top Center" or "Upper Dead Center" at this point.

Position of flywheel may be noted through inspection hole on top of bell housing.

No. 1 piston is now at the end of its upward stroke and at this point the impulse starter should snap loud enough to be heard. If this

does not occur, remove the retaining screws from the magneto drive shaft coupling and rotate the shaft either backward or forward until the correct alignment is made so that the impulse takes place at the proper time.

The timing of a magneto requires great care as a slight variation in the timing will cause a great difference in the performance of the motor.

If the ignition is too early the motor will knock, it will be dangerous to crank and the bearings will be short lived. If the ignition is too late the engine will not develop its full power and overheating will result.

### SETTING THE TIMING LEVER ON THE MAGNETO

When setting the timing lever on the magneto it should be borne in mind that this will not change the time of the snap of the impulse starter. The timing lever is independent of same.

After motor has started the impulse starter ceases to function being automatically cut out. Time of ignition is now controlled by the timing lever. This timing lever should be pushed down as far as it goes.

### HOW TO RETIME MAGNETO IF IT HAS BEEN REMOVED

Open the priming cups and turn flywheel until No. 4 exhaust valve is closed. (No. 4 exhaust valve is the one next to flywheel). The flywheel is marked TC1 and 4. Have this mark at the top, which means that the No. 1 and No. 4 pistons are at the top center or upper dead center at this point. Position of flywheel may be noted through inspection hole on top of bell housing.

Secure magneto to motor in its place and make sure it is properly aligned with the driving shaft.

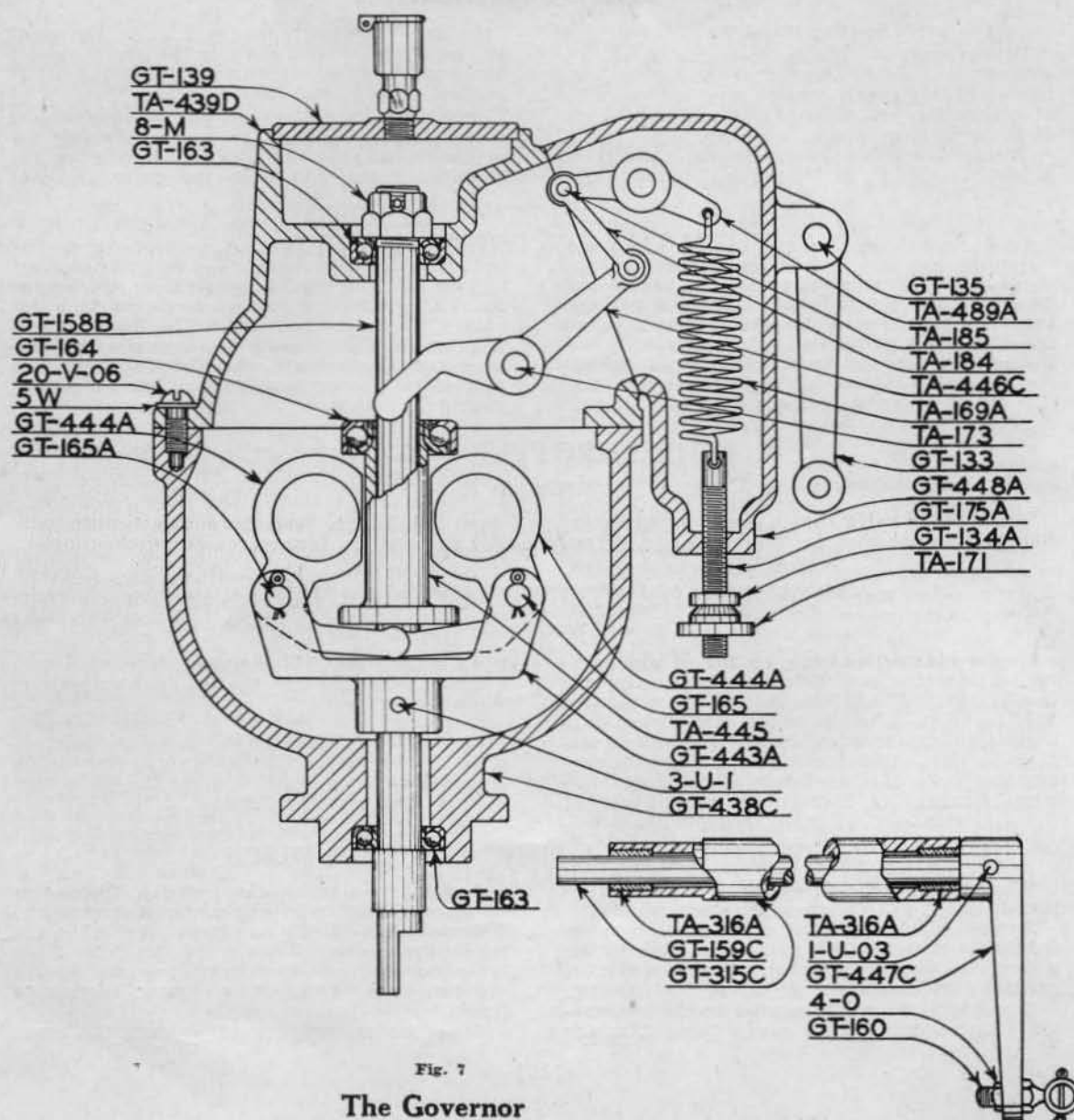
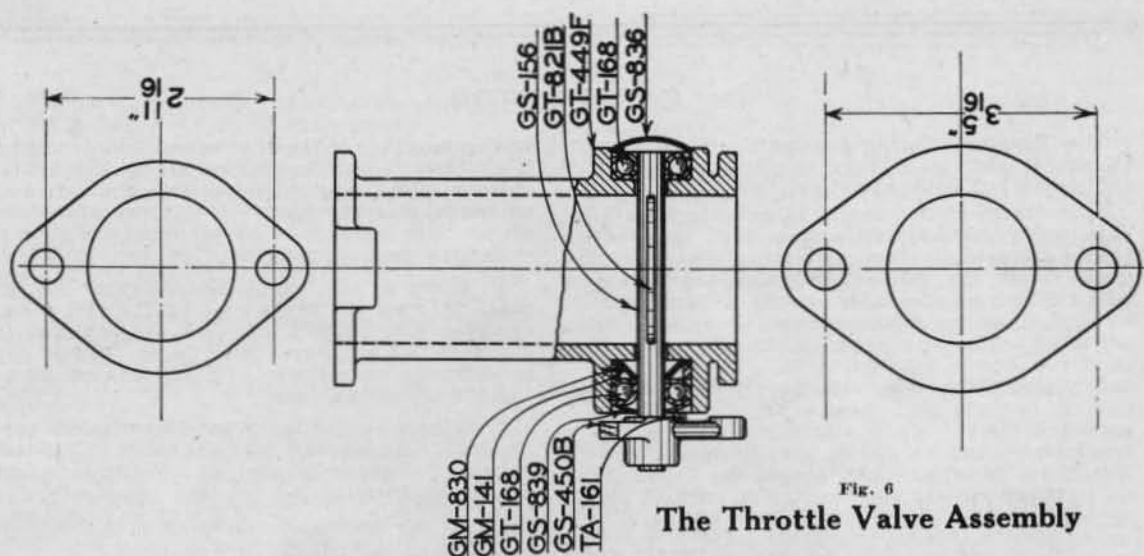
Remove the distributor plate and end cap from the magneto and turn the magneto armature in the direction in which it runs until the carbon brush is in the lower left hand corner and the contacts start to open. This occurs

when the interrupter lever fibre block begins to bear against one of the interrupter cams. (Points just opening).

The armature should be held in that position while the magneto drive is connected to the engine. The installation is completed by replacing the distributor plate and end cap and connecting the wires between the magneto and spark plugs.

Connect wire from No. 1 cylinder to terminal in lower left hand corner of the distributor block. Fasten the wire from No. 2 cylinder to next terminal (going clockwise). Fasten the wire from No. 4 cylinder to the third terminal and the wire from No. 3 cylinder to the fourth terminal. The firing order of the motor being 1-2-4-3.





## CARBURETOR

The Kingston Carburetor which is used on Lauson tractor is of very simple construction and needs but little attention.

Adjustment of the needle valve is important. This is the only adjustment required. Shut off needle valve to give best power. A black sooty smoke from the exhaust indicates too rich a mixture and needle valve should be gradually screwed down until the exhaust is clear. Do not mind a blue or grayish smoke from exhaust as this is due to lubricating oil. Loud exhaust and popping through carburetor indicates too lean a mixture and needle valve should be opened further. Upon starting a cold motor needle valve can be and is usually opened further than normal. Care should be taken to adjust more closely after motor is warmed up.

The function of the choker on the carburetor is to restrict the passage of air in order that more gasoline may be sucked into the cylinders to make starting easy. If motor refused to start easily examine choker and make sure it closes the passage properly.

If there is any suspicion of water in the gasoline, open the drain cock on the carburetor chamber and allow a little of the contents to run into the hollow of your hand. Water can be detected in this way. It will always go to the bottom of the vessel.

Watch closely for leaky gasoline pipes or connections. Repair any leaks at once. They are extremely dangerous and are liable to cause disastrous fires.

## THE GOVERNOR

See Fig. 6 and 7

Do not tamper with the governor unless absolutely necessary. Speed of motor is controlled by the speed control lever on the dash of the tractor. An oiler has been placed on top of the governor. Supply oil daily.

The normal speed of the motor is 1,000 R. P. M. or.....R. P. M. of the belt pulley. The

diameter of the belt pulley is..... The speed of the motor is controlled by the speed control lever on the governor which is connected to the ratchet control lever on the dash.

Pulling back the lever on the steering column increases the speed of the motor. Further adjustment can be obtained by screwing up the thumb nut No. TA171 on the governor.

## WHEN THE GOVERNOR SURGES

When the governor continually opens and closes the throttle, a condition known as surging, may be caused by the governor shaft GT159B being too loose in its bearings. Bearings can be adjusted by screwing down the nut No. 8M on the top end of the governor shaft. If still too loose renew bearings GT163.

Surging may also be caused by the spring No. TA169A having become too weak in which case it should be renewed. The lower end of the shaft GT158B should also be examined. The tang end should be a reasonably close fit into the internal spiral gear. If too loose the shaft should be renewed.

## THE THROTTLE VALVE

Fig. 3

The throttle valve should occasionally be examined for looseness in the bearings. If too

loose it is best to send the entire throttle valve assembly to the factory for an overhauling.

## HOW TO ADJUST TWIN DISC CLUTCHES

See Fig. 8

Remove inspection plate on top of bell housing on transmission. This plate is directly over the clutch. The clutch adjusting yoke No. 104B1. Fig. 8 which is the steel sleeve supporting the four clutch dogs is now nicely exposed to view. Clutch can be adjusted by screwing this yoke further towards the motor. A small locking pin No. 114B1 must be lifted

when doing this. This locking pin is fitted with a spring which returns the pin back to position when it is released.

Be sure this locking pin when released "snaps" back into one of the holes provided for it under the sleeve. The sleeve may have to be turned slightly in order to bring the pin in line with the hole provided for it.

## HOW TO INSTALL NEW FRICTION DISCS

Whenever it becomes necessary to renew friction discs No. 112B11 proceed as follows:

Remove hood, front and rear. Loosen upper and lower radiator hose connection next to the motor. Remove the radiator. Disconnect clutch rod from the clutch arm at top of bell housing.

Disconnect the gasoline pipe at the carburetor. Disconnect the oil gauge tube at motor

and wire running to the switch. Disconnect governor control wire and air washer tube.

Remove the 12 cap screws holding bell housing to the motor. Remove the two bolts holding motor to frame at bell housing and remove the two bolts holding front motor bracket to frame.

Slide the motor forward against the front

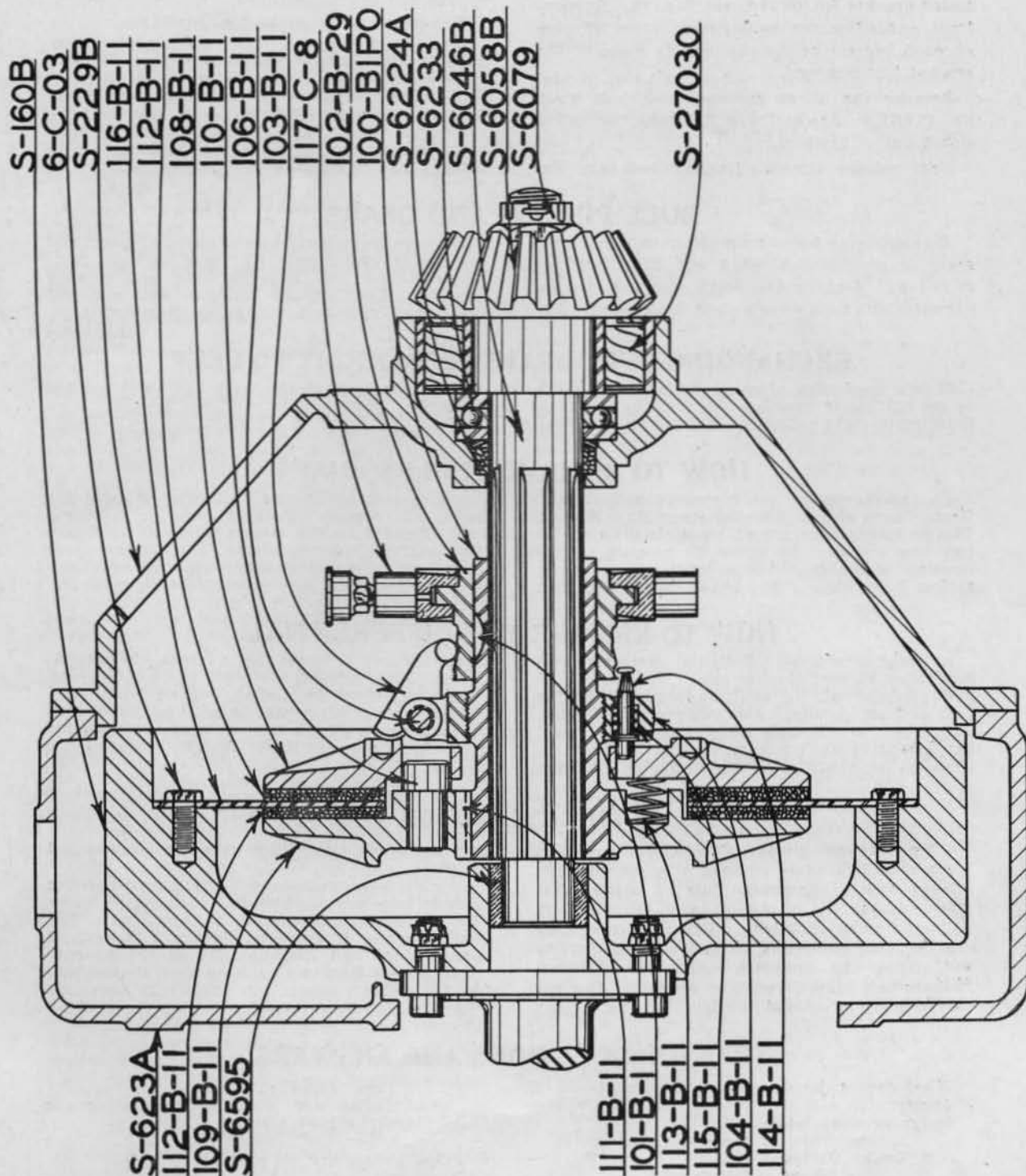


Fig. 8



plate. Raise up front end of motor and remove motor bracket No. S620A, see Fig. 15. Support front end of motor by laying a piece of pipe or wood bar across the channels in place of the bracket just removed.

Remove the 8 cap screws which bolt plate No. 116B1 to flywheel Fig 8. Take the entire clutch out of flywheel.

Next release clutch adjusting lock pin No.

114B29 until adjusting yoke assembly is entirely free and can be removed.

Remove floating plate No. 108B11.

Remove old lining from driving plate No. 116B11 and replace with new lining.

Re-assemble in reverse order.

When re-assembling be careful that the clutch fork S246D does not catch or is held back by the cone collar No. 117C8 as this may bend it or damage other parts and later result in binding and heating of the cone collar.

## BULL PINIONS AND GEARS

Should it ever become necessary to renew bull gears or pinions Nos. 6218 and 273A proceed as follows: Jack up and block rear end of tractor until both rear wheels clear the ground. Re-

move nuts from inner hub of ground wheels and remove ground wheels. Remove all bolts from pressed steel bull gear housing and remove housing. Both pinions and bull gear are now exposed to view and may be easily renewed.

## EXCHANGING BULL GEARS FROM RIGHT TO LEFT

It is a good plan after one side of the teeth of the bull gears have become worn to exchange them from right to left. This places the wear

on the other side of the teeth and this prolongs their life.

## HOW TO REMOVE PULLEY SHAFT

To remove pulley shaft remove pulley first. Next remove shifter housing assembly. Fig. . . This is fastened to top of transmission case by two cap screws. In order to remove shifter housing assembly it is necessary to remove shifter lever Fig. . . No. 6514. Remove shifter

lever by unscrewing small set screw in retaining collar and remove retaining collar by unscrewing. Remove all cap screws from left hand pulley shaft bearing housing. This is the large round plate on transmission case opposite pulley. Pulley shaft may now be easily removed.

## HOW TO REMOVE THE DIFFERENTIAL

In order to remove differential assembly, proceed same as for "How to get at bull gears and bull pinions" but in addition remove gasoline tank and air cleaner. Also remove pipes, wires, etc., which are directly over transmission case. For removing shifter housing see "How to remove pulley shaft". Next remove transmission

case cover. Remove bolts from differential sleeve, and remove end plates. Differential shaft may now be pulled out on each side. When doing this pry up and hold up differential assembly with a crow bar. Differential assembly may now be easily lifted out for inspection or repair.

## THE CYLINDERS

Cylinders and pistons are subject to wear. Worn cylinders cause leakage of gases past the pistons with a consequent loss of power. Excessive smoke out of the breather pipes usually indicates worn cylinders. This condition may also be noted by pulling up on the starting crank and noting the compression of each cylinder. If there is a blow through or excessive leak the only remedy is to send the block to the factory

for regrounding and fitting with new pistons and rings.

We do not recommend putting new oversize pistons into worn cylinders. It is the cylinder that is worn and should be reground. The major part of repairs on cylinders is the cost of new pistons and rings and it should be considered poor economy to place new pistons into worn cylinders when for but little more the cylinders can be reground.

## TRACTOR QUESTIONS AND ANSWERS

What causes the motor to lack power?

Answer:

1. Ignition too late:

(See "How to Time Magneto".)

2. Leaky Valves:

(See "Head and Valves".)

3. Push Rods adjusted incorrectly:

(See "Push Rod Adjustment".)

4. Clogged Air Washer:

(See "Clean Air Washer".)

5. Motor may not fire in all cylinders:

(See "Missing Motor".)

6. Cylinder and piston worn causing gas leakage past pistons:

(See "The Cylinders".)

What causes low oil pressure?

Answer:

1. Bearings too loose:

(See "How to Adjust Bearings".)

2. Leak in the oil line.

3. Screw No. 5447 may need screwing up:

(See Fig. 1.)



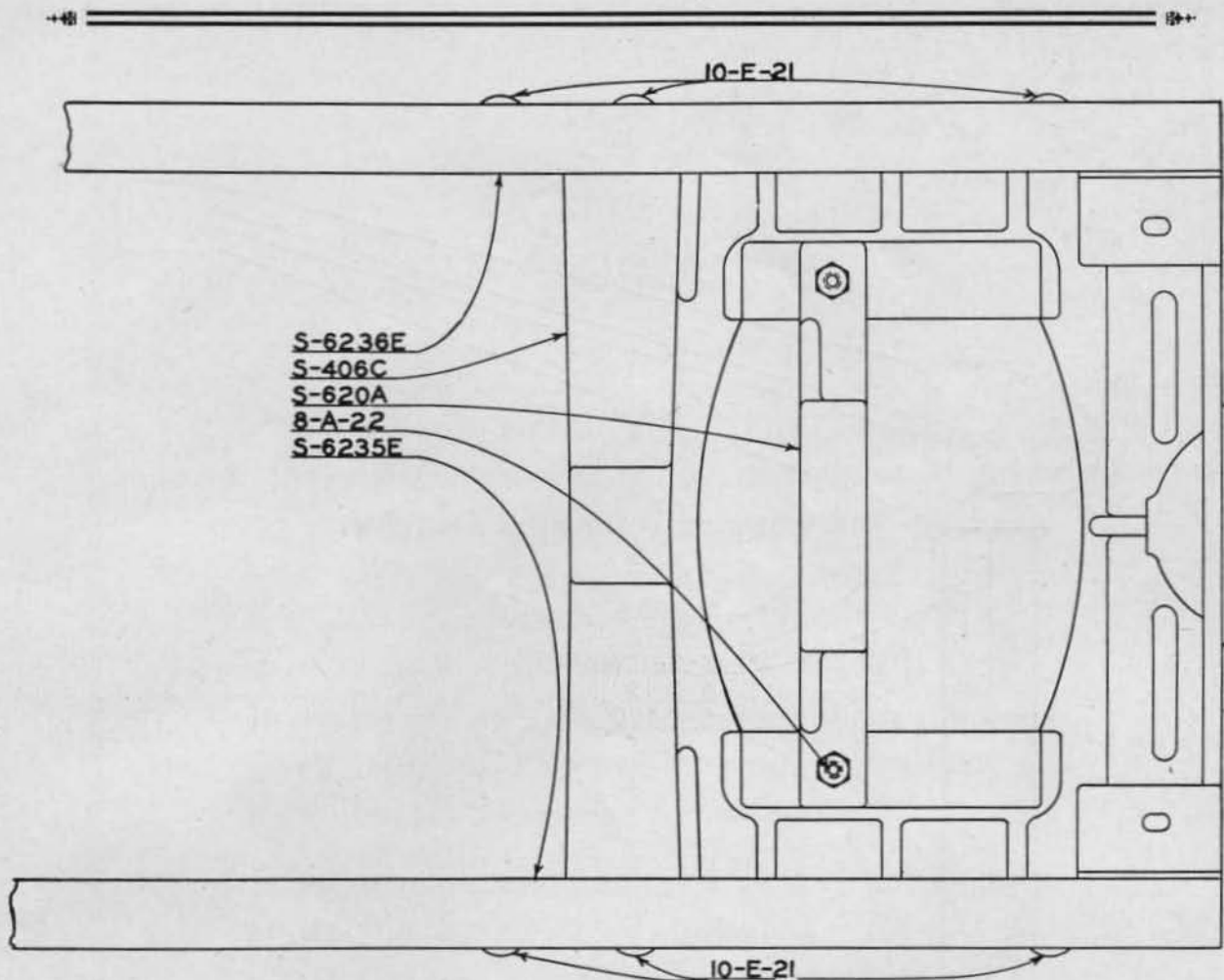


Fig. 15

4. Oil pump worn.  
(Should be overhauled.)
5. No oil in sump of motor.

What cause bearings to wear excessively?  
Answer:

1. Oil in crankcase sump of motor not changed often enough. Drain out all oil in motor and supply new oil every 40 hour run.
2. Crankshaft excessively worn and no longer truly round. Have bearings on crankshaft refinished or install new crankshaft.
3. Neglecting to keep air cleaner filled with water when running tractor when grit and dust is present.
4. Running motor at excessive speed. The motor should never be run beyond 1060 R. P. M.

What causes water to boil in radiator?

Answer:

1. The fan belt too loose or of poor quality. Always use endless leather fan belts.
2. The blades of the fan not having the proper curvature or angle due to having been damaged or mishandled.
3. Radiator clogged with scale due to using hard water. If possible use rain water in the radiator.
4. Circulating pump on motor worn or damaged. The fan or motor may be loose in the shaft, or the vanes of fan bent by starting the motor with ice in the pump body.
5. Defective hose connections from the radiator to the motor obstructing the flow of the water. Renew hose connections.
6. Ignition too late.  
(Read the question: "What causes lack of power and the answers there to". The causes of lack of power also are liable to lead to overheating.

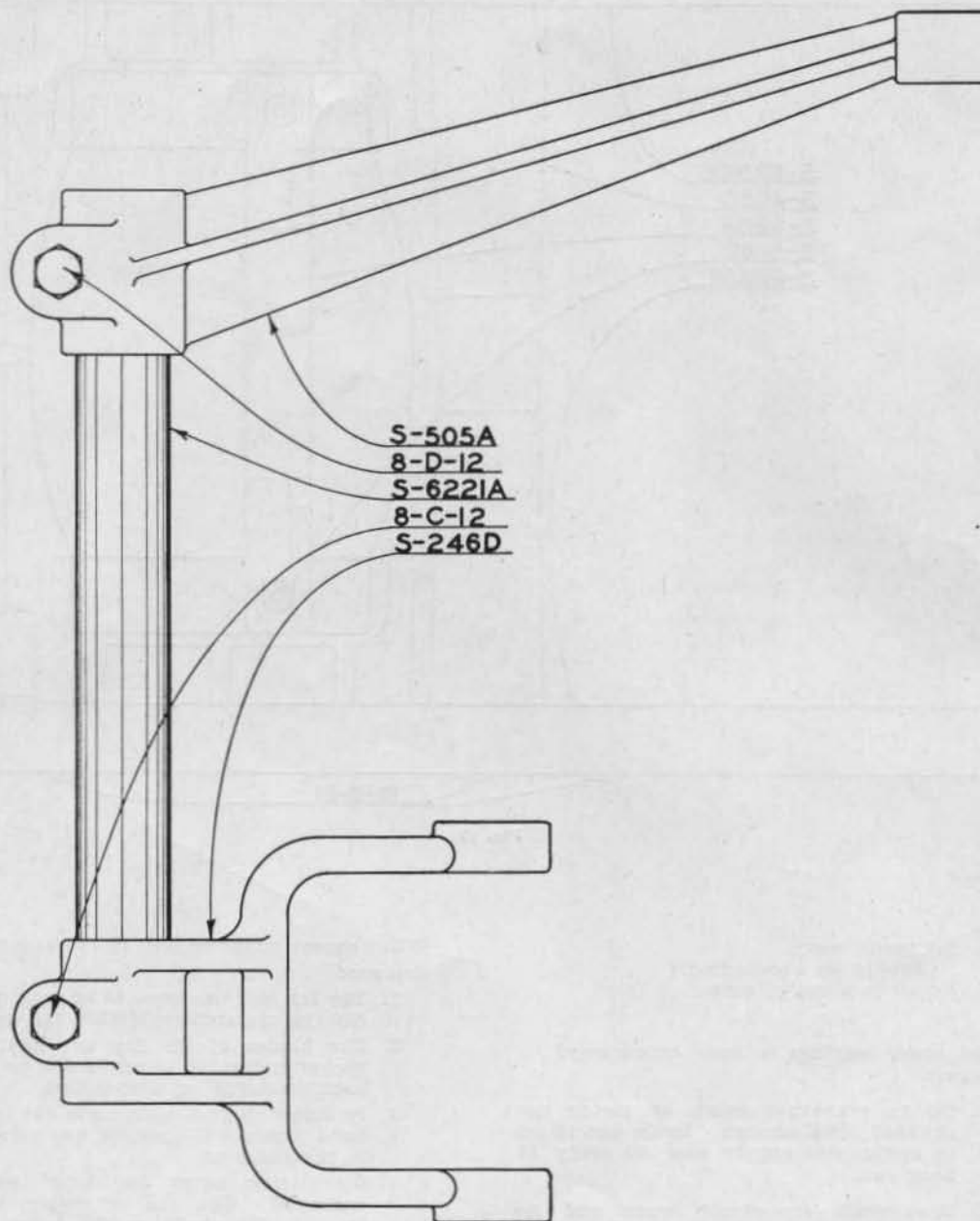


Fig. 17

Clutch Arm

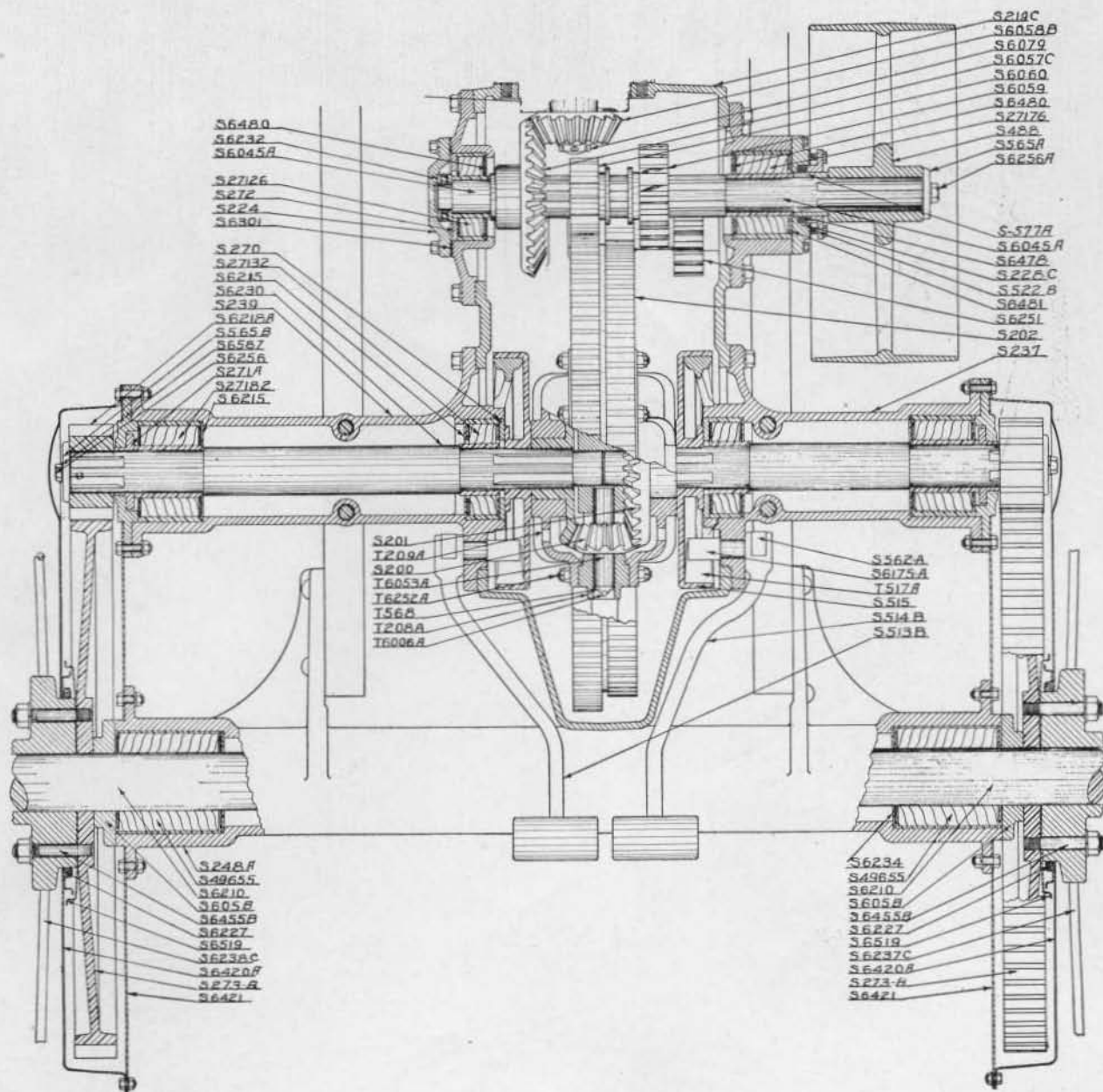


Fig. 18

# Transmission and Rear Axle

