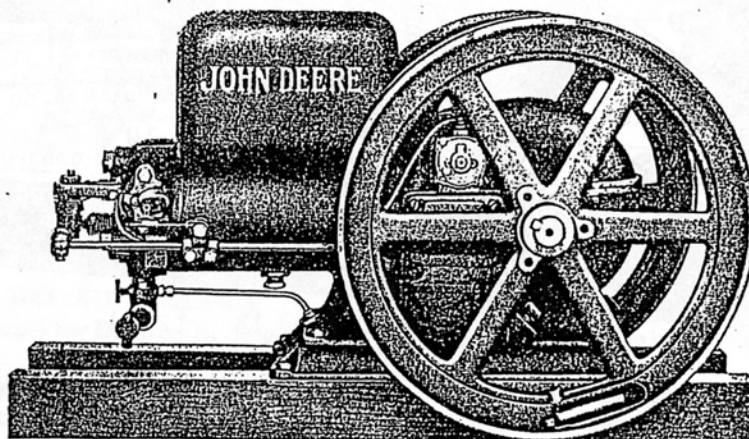


**OPERATING INSTRUCTIONS  
&  
PARTS LIST**

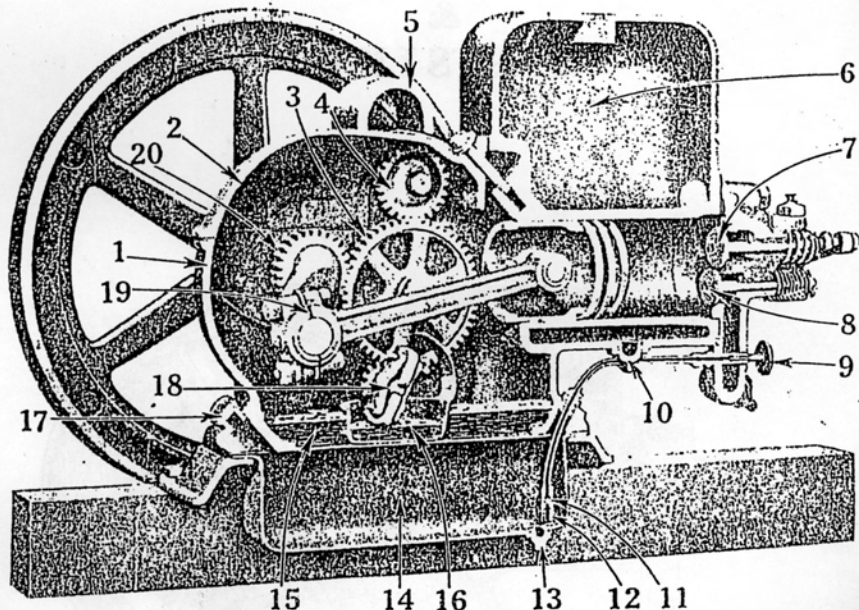


Model "E" 3-H. P. Engine

**JOHN DEERE TYPE "E"  
GASOLINE ENGINES**

**Manufactured by:  
John Deere Tractor Company  
Waterloo, Iowa, U.S.A.**

*Read, study and understand this book.  
Keep for future reference.*



**1. Crank Case** contains all important operating parts. wear taken on easily replaced inexpensive bushings.

**2. Crank Case Cover** prevents dirt or foreign matter getting into operating parts. Removeable without disturbing magneto or operating parts.

**3. Cam Gear** drives cam shaft which governs ignition and valve-timing. it also drives magneto and the governor.

**4. Magneto Gear** drives magneto at the same speed and same direction as crankshaft.

**5. Magneto** furnishes hot fat spark for easy starting and continous running.

**6. Water Hopper** has excess capacity. No danger of over heating.

**7. Exhaust Valve** non warping.

**8. Intake Valve** non warping.

**9. Mixer Needle Valve** for adjusting amount of fuel.

**10. Drain Plug** for removing water.

**11. Check** in fuel line keeps gasoline at mixer.

**12. Strainer Screen** prevents foreign matter from entering check, fuel line, or needle valve.

**13. Drain Plug** for flushing water and sediment from fuel tank.

**14. Gasoline Tank** seamless, rust proof, heavy pressed steel construction, no solder joints. Fully protected from damage. No fire hazard.

**15. Oil Reservoir** Capacity for 20 hours' continuous running. Note-maximum oil level shown.

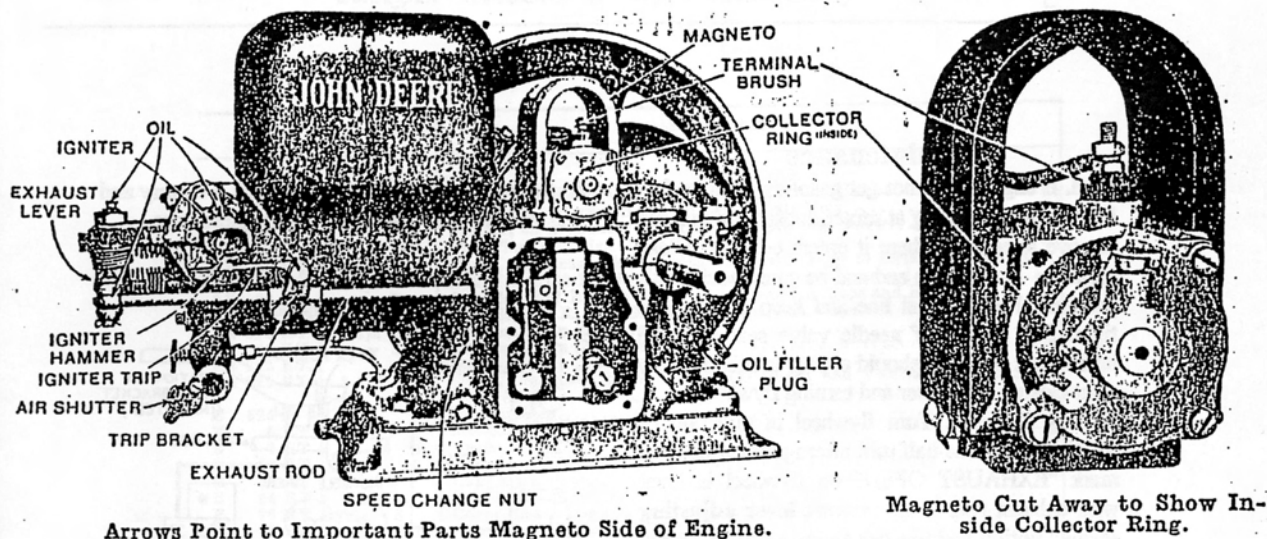
**16. Oil Pan** Revolving governor (18) splashes oil to all parts of crank case, thoroughly lubricating the operating parts. Oil pan regulates oil supply.

**17. Large Gasoline Filler Hole.** Convenient oil filler on opposite side of engine.

**18. Governor** runs in oil. Insures uniform speed.

**19. Connecting Rod Bearings** die cast, removable and replaceable. Metal shims for adjustment.

**20. Main Bearings** fitted to crankcase. No strain on studs, replaceable die cast bearings with metal shims for adjustment.



Arrows Point to Important Parts Magneto Side of Engine.

Magneto Cut Away to Show Inside Collector Ring.

### BEFORE STARTING

#### Examine for Damage in Shipping

**Lubrication.** Remove oil filler plug. Pour in good grade engine oil until it runs out oil-filler hole. This is correct level. Add oil every fifteen to twenty hours of operation. Use high-grade oil, medium in summer, and light enough in winter to flow at low temperatures. Drain and wash out crankcase every 100 hours of operation. Oil exhaust lever bearing and exhaust rod journal daily. On engines with magneto, oil igniter, ignitor trip, and magneto daily. Use one drop cream separator oil on magneto.

**Fuel** - Fill tank at gasoline filler hole with clean gasoline.

**Water** - Fill hopper three-fourths full of clean water - preferably soft.

**Battery** - To insure purchaser getting fresh batteries, this engine is shipped from factory with out them. Secure a square unit "Hot Shot" battery or four dry cells. The "Hot Shot" is recommended as having fewer connections and better insulation. Place battery in box inside of insulating material. When separate cells are used, insert wooden block in center to prevent rubbing and shorting.

Keep cover on battery box, as batteries deteriorate quickly if allowed to become damp.

Close switch and crank engine slowly against compression until coil vibrates. If coil doesn't vibrate, examine wiring and connections. Clean timer points. Test batteries. Cells should register at least eight amperes.

**Starting (Batteries)** Close switch, open mixer needle one turn, close air shutter and crank engine. When engine starts, open air shutter and adjust needle until engine takes one explosion at a time, running without load. Open switch to stop engine.

**Starting (Magneto)** Open mixer needle one turn, close air shutter and crank engine. When engine starts, open air shutter and adjust needle until engine takes one explosion at a time, running without load. To stop engine, hold down the ignitor trip.

### OPERATING

**Speed** - May be adjusted from one-half to full rated speed by turning speed change nut.

**Mixer** - Needle needs no change except in cold weather. Then it should be opened further until engine is warm.

**Hopper** - Drain hopper in freezing weather.

## Maintenance

**Fuel.** If engine does not get gasoline, remove fuel line by disconnecting at mixer, loosen top nut and remove lower nut where it enters cylinder. Clean strainer at fuel pipe end and be sure check holds gasoline. Replace fuel line and keep connections tight. Slot in end of needle valve seat must be horizontal. Gasoline should appear in mixer elbow after closing air shutter and turning flywheels.

**Timing Exhaust.** Turn flywheel in direction of rotation about one-half turn after ignitor trips until mark "EXHAUST OPEN" on flywheel is level with exhaust rod. Turn exhaust lever adjusting screw" until it just touches end of exhaust valve, then tighten lock nut.

### ENGINE WITH MAGNETO

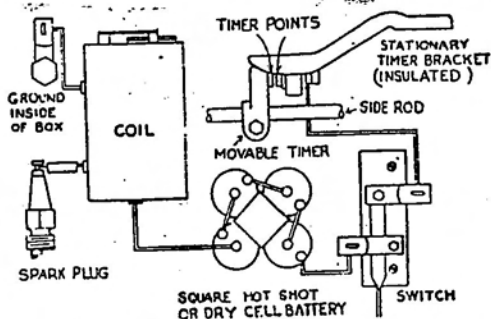
**Magneto.** Test spark by cleaning a bright spot on ignitor main spring and scratch ignitor end of wire across it while flywheels are rotating. If no spark shows, the magneto terminal brush holder, to which wire is attached should be removed and cleaned and copper collector ring inside magneto wiped clean, through terminal brush holder tapped hole. Magneto rarely needs attention, and should always give spark if ignitor is timed correctly. Never remove magneto until marks on magneto and cam gears are lined up. Replace in same position and engine will start.

**Note:** In case the gear marking becomes obliterated, the magneto can be timed by pressing in the timing rivet marked "L" (in magneto end bearing), while the flywheel is turned slowly in the direction it runs. This rivet should drop into the notch and start out just as the ignitor trips.

**Timing Ignitor.** The ignitor must trip when "Spark" on flywheel is level with or slightly above exhaust rod, and exhaust rod is clear back toward flywheel just starting ahead. If ignitor trips before this point, loosen clamp bolts of trip bracket and adjust back toward flywheel. If it trips later than this, adjust bracket ahead. Face of ignitor trip must set flat against hammer when bolts are tightened.

**Battery Connections.** Never attach a battery and coil without first disconnecting magneto wire.

### ENGINE WITH BATTERY Wiring Diagram



**Timing Spark.** Close switch and crank engine slowly against compression until "spark" flywheel mark is level with side rod. Coil should start vibrating here. If it vibrates before, move timer bracket on side rod toward cylinder head end; if later, move toward flywheel.

**Adjusting Coil.** The coil is properly adjusted when it leaves the factory, and should not be disturbed. The correct adjustment is 1/32 inch between the points when the spring is held down.

**To Test Spark Plug.** Remove plug from cylinder and hold against cylinder head, crank engine until coil vibrates; plug should show a good spark. If not clean plug and examine porcelain for cracks. Gap between points of spark plug should be .020 inch.

**Always** be sure switch is open when engine is not running.

John Deere Type "E" engines are extremely simple in design. They have the fewest possible number of parts to wear out or get out of adjustment. They start easily and run without attention. Keep all nuts tight; use good oil as instructed; keep engine clean, and it will prove a safe, reliable and durable power plant.

Part Number	H. P. Size	NAME AND DESCRIPTION
<b>CYLINDER</b>		
629 R	1-1/2-3	Washer, on Crankcase Cover to Waterpot Cap Screw
1450 R	1-1/2-3-6	Pipe Plug, in Lower Hook-Up Lever Shaft Hole
1706 R	6	Washer, on Crankcase Cover to Waterpot Cap Screw
A 2093 R	1-1/2-3-6	Pipe Plug, Cylinder Drain
AE 29 RT	1-1/2	Cover, Crankcase, E60 R, with Oil Guard (Prior to Serial No. 326572)
AE 85 RT	1-1/2	Cylinder, E103 R, with Studs, Main Bearings, Caps and Bushings
AE 86 RT	3	Cylinder, E77 R, with Studs, Main Bearings, Caps and Bushings
AE 171 RT	6	Cylinder, E7 R, with Studs, Main Bearings, Caps and Bushings
AE 218 RT	1-1/2	Bearing, Main (2 Halves)
AE 220 RT	3	Bearing, Main (2 Halves)
AE 222 RT	6	Bearing, Main (2 Halves)
AE 229 RT	1-1/2	Cover, Crankcase, E127 R, with Oil Guard and Ventilator (After Serial No. 326571)
C 524 R	6	Priming Cup
E 5 RT	6	Sub-base
E 6 RT	6	Cover, Crankcase
E 10 RT	6	Cap, Main Bearing
E 53 RT	1-1/2	Cap, Main Bearing
E 54 RT	1-1/2	Sub-base
E 79 RT	3	Cover, Crankcase
E 86 RT	3	Cap, Main Bearing
E 92 RT	3	Sub-base
E 128 RT	1-1/2	Spacer, Ventilator (After Serial No. 326571)
E 1946 RT	1-1/2	Cover, Ventilator (After Serial No. 326571)
E 1947 RT	1-1/2	Ventilator Valve (Leather) (After Serial No. 326571)
E 2012 RT	6	Gasket, Oil Drain
E 2016 RT	6	Washer, Fibre, Crankcase Cover Screw (No Cut)
E 2019 RT	6	Gasket, Crankcase Cover
E 2020 RT	6	Gasket, Crankcase Bottom
E 2031 RT	6	Shim, Main Bearing, Thin
E 2036 RT	6	Shim, Main Bearing, Medium
E 2037 RT	6	Shim, Main Bearing, Thick
E 2046 RT	6	Stud, Cylinder Head, 3/4" x 5-1/4"
E 2136 RT	1-1/2	Gasket, Crankcase Bottom
E 2136 RT	3	Gasket, Crankcase Bottom
E 2183 RT	1-1/2	Gasket, Crankcase Cover
E 2187 RT	1-1/2	Guard, Oil
E 2196 RT	1-1/2	Shim, Main Bearing, Thick
E 2198 RT	1-1/2	Shim, Main Bearing, Medium
E 2220 RT	1-1/2-3-6	Washer, Packing, on Crankcase Cover to Waterpot Cap Screw
E 2229 R	3	Stud, Cylinder Head
E 2230 RT	3	Shim, Main Bearing, Thick
E 2245 RT	3	Shim, Main Bearing, Medium
E 2247 RT	3	Gasket, Crankcase Cover
E 2258 RT	1-1/2	Shim, Main Bearing, Thin
E 2270 RT	3	Shim, Main Bearing, Thin
K 2002 RT	1-1/2	Stud, Cylinder Head, 1/2" x 3-1/4"
K 2003 RT	1-1/2	Stud, Cylinder Head, 1/2" x 2-1/2"
<b>CYLINDER HEAD</b>		
AE 73 RT	3	Head, Cylinder, E78 R, with Valves and Springs
AE 89 RT	1-1/2	Head, Cylinder, E93 R, with Valves and Springs
AE 159 RT	6	Head, Cylinder, E16 R, with Valves and Springs
AE 278 RT	1-1/2	Valve, Intake and Exhaust (Set of Two, E1973 RT)
AE 279 RT	3	Valve, Intake and Exhaust (Set of Two, E1974 RT)
AE 280 RT	6	Valve, Intake and Exhaust (Set of Two, E1975 RT)
E 15 RT	6	Head only, Cylinder
E 78 RT	3	Head only, Cylinder
E 93 RT	1-1/2	Head only, Cylinder
E 2021 RT	6	Gasket, Cylinder Head
E 2221 RT	1-1/2	Gasket, Cylinder Head
E 2251 RT	3	Gasket, Cylinder Head
K 2006 RT	1-1/2-3	Spring, Intake Valve
K 2007 RT	1-1/2-3	Spring, Exhaust Valve
K 2025 RT	3	Spring, Cushion, Intake Valve
K 2073 RT	6	Spring, Cushion, Intake Valve
K 2136 RT	6	Spring, Intake Valve
K 3146 RT	6	Spring, Intake Valve
K 3147 RT	6	Spring, Exhaust Valve
K 3148 RT	6	Retainer, Exhaust Valve Spring
	6	Pin, Exhaust Valve Spring

Part Number	H. P. Size	NAME AND DESCRIPTION
<b>CRANKSHAFT</b>		
AE 18 RT	1-1/2	Crankshaft with Gear.....
AE 60 RT	3	Crankshaft with Gear.....
AE 150 RT	6	Crankshaft with Gear.....
E 2049 RT	6	Gear, Crankshaft.....
E 2168 RT	1-1/2	Gear, Crankshaft.....
E 2207 R	1-1/2-3-6	Key, Crankshaft Gear.....
E 2228 RT	3	Gear, Crankshaft.....
<b>PISTON AND CONNECTING ROD</b>		
AE 40 RT	1-1/2	Connecting Rod, E49 R, with Bearings.....
AE 75 RT	3	Connecting Rod, E50 R, with Bearings.....
AE 156 RT	6	Connecting Rod, E3 R, with Bearings.....
AE 217 RT	1-1/2	Bearing, Connecting Rod (2 Halves).....
AE 219 RT	3	Bearing, Connecting Rod (2 Halves).....
AE 221 RT	6	Bearing, Connecting Rod (2 Halves).....
AE 241 RT	1-1/2	Piston with Rings.....
AE 242 RT	1-1/2	Piston with Rings, .0625 Oversize.....
AE 243 RT	3	Piston with Rings.....
AE 244 RT	3	Piston with Rings, .0625 Oversize.....
AE 245 RT	6	Piston with Rings.....
AE 246 RT	6	Piston with Rings, .0625 Oversize.....
AE 253 RT	1-1/2	Ring, Piston (Set of Three).....
AE 254 RT	1-1/2	Ring, Piston (Set of Three) .0625 Oversize.....
AE 255 RT	3	Ring, Piston (Set of Three).....
AE 256 RT	3	Ring, Piston (Set of Three) .0625 Oversize.....
AE 257 RT	6	Ring, Piston (Set of Three).....
AE 258 RT	6	Ring, Piston (Set of Three) .0625 Oversize.....
AE 260 RT	1-1/2	Bushing, Piston Pin (Substitute for E2075 R).....
AE 261 RT	3	Bushing, Piston Pin (Substitute for E2076 R).....
AE 262 RT	6	Bushing, Piston Pin (Substitute for E2011 R).....
E 2032 RT	6	Shim, Connecting Rod, Thin.....
E 2036 RT	6	Shim, Connecting Rod, Medium.....
E 2038 RT	6	Shim, Connecting Rod, Thick.....
E 2169 RT	1-1/2	Pin, Piston.....
E 2197 RT	1-1/2	Shim, Connecting Rod, Thick.....
E 2199 RT	1-1/2	Shim, Connecting Rod, Medium.....
E 2231 RT	3	Shim, Connecting Rod, Thick.....
E 2246 RT	3	Shim, Connecting Rod, Medium.....
E 2259 RT	1-1/2	Shim, Connecting Rod, Thin.....
E 2271 RT	3	Shim, Connecting Rod, Thin.....
K 2024 RT	3-6	Pin, Piston Pin Bushing (Used on 3-H. P. Prior to Serial No. 240087).....
K 2117 RT	3	Pin, Piston.....
K 2185 RT	6	Pin, Piston.....
<b>EXHAUST ROD</b>		
E 17 RT	6	Lever, Exhaust.....
E 81 RT	3	Lever, Exhaust.....
E 106 RT	1-1/2	Lever, Exhaust.....
E 2023 RT	6	Spring, Exhaust Lever.....
E 2046 RT	6	Pin, Exhaust Lever Pivot.....
E 2048 RT	6	Pin, Exhaust Lever to Rod.....
E 2061 RT	6	Rod, Exhaust.....
E 2166 RT	1-1/2	Rod, Exhaust.....
E 2206 RT	1-1/2-3	Pin, Exhaust Lever to Rod.....
E 2224 RT	3	Rod, Exhaust.....
E 2292 RT	1-1/2-3	Spring, Exhaust Lever.....
E 2293 RT	1-1/2-3	Cap Screw, Special Exhaust Lever.....
E 2302 RT	1-1/2-3-6	Oiler Cup.....
K 2010 RT	1-1/2-3	Screw, Exhaust Lever Adjusting.....
K 2142 RT	6	Screw, Exhaust Lever Adjusting.....
<b>GOVERNOR</b>		
1460 R	1-1/2-3-6	Pipe Plug, in Lower Hook-Up Lever Shaft Hole.....
AE 24 RT	1-1/2	Lever, Hook-Up, E66 R, with Plate.....
AE 66 RT	3	Lever, Hook-Up, E85 R, with Plate.....
AE 162 RT	6	Lever, Hook-Up, E20 R, with Plate.....
AE 232 RT	1-1/2	Plunger, Governor with Oil Slinger (After Serial No. 326571).....
D 469 R	1-1/2-3-6	Welsh Plug, Top of Hook-Up Lever Shaft (1-1/2- and 3- H. P. After Serial No. 265811).....
E 8 RT	6	Gear, Camshaft.....
E 9 RT	6	Camshaft.....
E 18 RT	6	Shaft, Governor.....

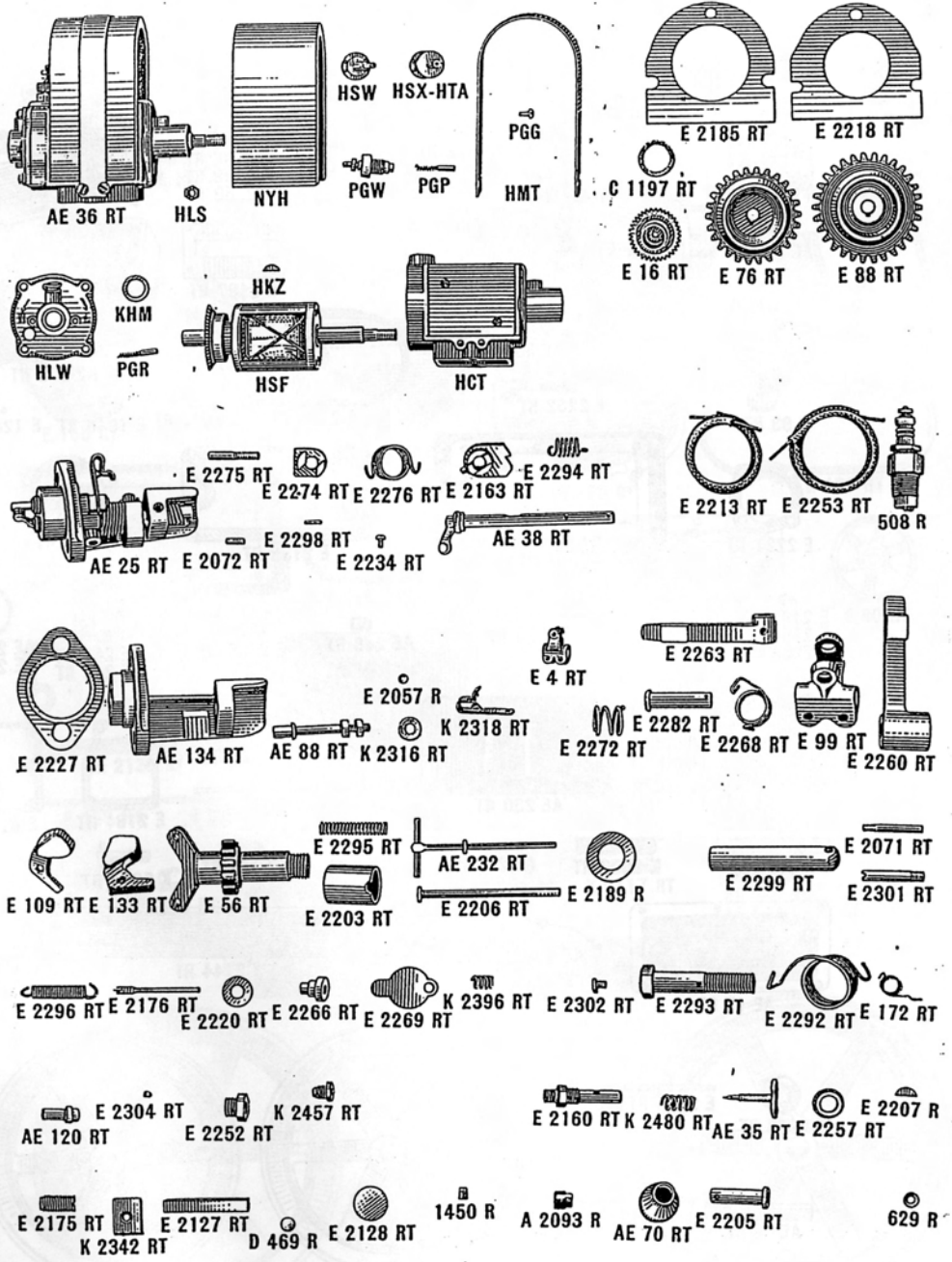
Part Number	H. P. Size	NAME AND DESCRIPTION
<b>GOVERNOR—Continued</b>		
E 19 RT	6	Cover, Governor.....
E 56 RT	1-1/2-3	Shaft, Governor.....
E 61 RT	1-1/2	Cover, Governor.....
E 62 RT	1-1/2	Gear, Camshaft.....
K 80 RT	3	Gear, Camshaft.....
E 84 RT	3	Cover, Governor.....
E 102 RT	1-1/2-3	Camshaft.....
E 109 RT	1-1/2-3-6	Weight, Governor (Used on 1-1/2 Prior to Serial No. 326572).....
E 133 RT	1-1/2	Weight, Governor (After Serial No. 326571).....
E 1979 RT	6	Key, Camshaft Gear (After Serial No. 265316) (No Cut).....
E 2018 RT	6	Gasket, Governor Cover.....
E 2024 RT	6	Plunger, Governor.....
E 2042 RT	6	Shaft, Hook-Up Lever.....
E 2043 RT	6	Bushing, Camshaft.....
E 2044 RT	6	Bushing, Governor Shaft.....
E 2055 RT	6	Cam Follower.....
E 2128 RT	1-1/2-3	Gasket, Hook-Up Lever Shaft Hole (Prior to Serial No. 265812).....
E 2171 RT	1-1/2	Shaft, Hook-Up Lever.....
E 2175 RT	1-1/2-3-6	Screw, Hook-Up Lever Adjusting.....
E 2176 RT	1-1/2-3-6	Screw, Speed Change.....
E 2184 RT	1-1/2	Gasket, Governor Cover.....
E 2189 R	1-1/2-3-6	Washer, Governor Thrust.....
E 2203 RT	1-1/2-3	Bushing, Governor and Camshaft.....
E 2206 RT	1-1/2-3	Plunger, Governor (Used on 1-1/2 Prior to Serial No. 326572).....
E 2207 R	1-1/2-3-6	Key, Camshaft Gear (Used on 6-H. P. Prior to Serial No. 265317).....
E 2220 RT	1-1/2-3-6	Washer, Packing, Speed Change Nut.....
E 2223 RT	3	Shaft, Hook-Up Lever.....
E 2225 RT	3-6	Shaft, Cam Follower.....
E 2248 RT	3	Gasket, Governor Cover.....
E 2260 RT	1-1/2-3	Cam Follower.....
E 2262 RT	1-1/2	Shaft, Cam Follower.....
E 2266 RT	1-1/2-3-6	Nut, Speed Change.....
E 2272 RT	3	Spring, Cam Follower Spacer.....
E 2295 RT	1-1/2-3-6	Spring, Governor Plunger.....
E 2296 RT	1-1/2-3-6	Spring, Speed Change.....
K 2342 RT	1-1/2-3-6	Plate, Hook-Up Lever.....
<b>MIXER</b>		
321 R	6	Gasket, Mixer to Cylinder Head.....
AE 35 RT	1-1/2-3	Valve, Needle.....
AE 160 RT	6	Valve, Needle.....
E 12 RT	6	Body, Mixer.....
E 89 RT	3	Body, Mixer.....
E 2029 RT	6	Seat, Needle Valve.....
E 2180 RT	1-1/2-3	Seat, Needle Valve.....
E 2250 RT	3	Gasket, Mixer to Cylinder Head.....
E 2289 RT	1-1/2-3	Air Shutter.....
K 2396 RT	1-1/2-3-6	Spring, Air Shutter.....
K 2452 RT	6	Air Shutter.....
K 2480 RT	1-1/2-3-6	Spring, Needle Valve.....
<b>FUEL SYSTEM</b>		
1417 RT	1-1/2-3-6	Pipe, Oil Drain (No Cut).....
AE 16 RT	1-1/2	Top, Fuel Tank, with Oil Pan (Prior to Serial No. 326571).....
AE 17 RT	1-1/2	Tank, Fuel, with Drain Plug.....
AE 58 RT	3	Top, Fuel Tank, with Oil Pan.....
AE 59 RT	3	Tank, Fuel, with Drain Plug.....
AE 102 RT	3	Fuel Line, Complete.....
AE 105 RT	1-1/2	Fuel Line, Complete.....
AE 120 RT	1-1/2-3-6	Check Valve Body with Strainer.....
AE 149 RT	6	Top, Fuel Tank, with Oil Pan.....
AE 167 RT	6	Fuel Line, Complete.....
AE 169 RT	6	Tank, Fuel, with Drain Plug.....
AE 230 RT	1-1/2	Top, Fuel Tank, with Oil Pan (After Serial No. 326571).....
AE 379 RT	1-1/2-3-6	Gland, with Bushing and Nut, for Fuel Line (No Cut).....
D 345 RT	1-1/2-3-6	Pipe Cap, on Oil Drain Pipe (No Cut).....
E 97 RT	1-1/2-3-6	Pipe Plug, Oil Filler, and Fuel Filler (No Cut).....
E 2066 RT	1-1/2-3-6	Flange, Fuel Drain (1-1/2-H. P. After Serial No. 250428, 3-H. P. After Serial No. 252844).....

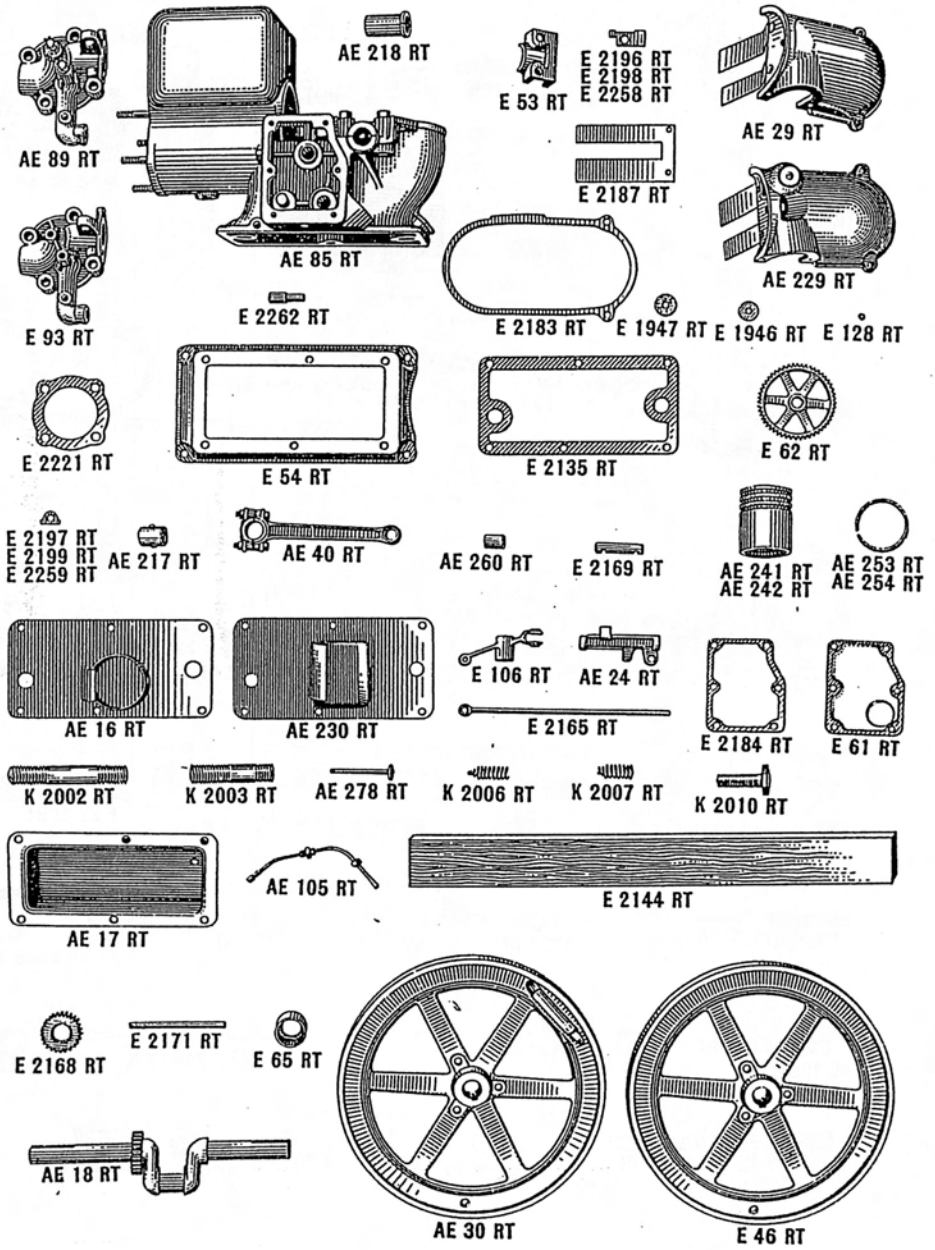
Part Number	H. P. Size	NAME AND DESCRIPTION
<b>FUEL SYSTEM—Continued</b>		
E 2262 RT	1-1/2-3-6	Bushing, Fuel Line.
E 2267 RT	1-1/2-3	Flange, Fuel Drain (1-1/2-H. P. Prior to Serial No. 250423, 3-H. P. Prior to Serial No. 252844).
E 2304 RT	1-1/2-3-6	Check, Gas Valve.
K 2457 RT	1-1/2-3-6	Nut, Compression, Fuel Pipe Cylinder Bushing.
L 1151 T	1-1/2-3-6	Plug, Fuel Tank Drain (No Cut).
<b>ENGINE PARTS</b>		
2532 R	3	Washer, on Water Hopper, Cover Latch.
AE 30 RT	1-1/2	Flywheel, E47 R, with Crank.
AE 69 RT	3	Flywheel, E110 R, with Crank.
AE 70 RT	1-1/2-3	Muffler.
AE 80 RT	1-1/2-3	Crankshaft Extension.
AE 139 RT	6	Muffler.
AE 164 RT	6	Flywheel, E1 R, with Crank.
AE 170 RT	6	Crankshaft Extension.
E 11 RT	6	Flywheel, Pulley Side.
E 46 RT	1-1/2	Flywheel, Pulley Side.
E 65 RT	1-1/2	Spacer, Flywheel.
E 83 RT	3	Spacer, Flywheel.
E 111 RT	3	Flywheel, Pulley Side.
E 191 RT	3	Cover, Water Hopper.
E 192 RT	3	Latch, Water Hopper Cover.
E 1988 RT	3	Spring, Water Hopper Cover Latch.
E 2028 RT	6	Skid.
E 2071 RT	1-1/2-3-6	Set Screw, Headless, Crank to Flywheel (1-1/2-H. P. and 3-H. P. After Serial No. 238846).
E 2125 RT	1-1/2-3-6	Funnel.
E 2127 RT	1-1/2-3	Key, Flywheel (Long).
E 2144 RT	1-1/2	Skid.
E 2145 RT	3	Skid.
E 2299 RT	1-1/2-3-6	Crank, Starting, 1/4" Hole.
E 2301 RT	1-1/2-3	Set Screw, Headless, Crank to Flywheel, (Prior to Serial No. 238846).
K 2191 RT	6	Key, Flywheel.
<b>PLAIN PULLEY</b>		
AE 4 RT	1-1/2-3	Pulley, E100 R, 6" x 5" Face, with Bolts.
AE 5 RT	1-1/2-3	Pulley, E98 R, 8" x 5" Face, with Bolts.
AE 6 RT	1-1/2-3	Pulley, E48 R, 10" x 5" Face, with Bolts.
AE 7 RT	1-1/2-3	Pulley, 4-3/4" x 4" Face, with Bolts.
AE 106 RT	1-1/2-3	Pulley, E36 R, 12" x 6" Face, with Bolts.
AE 107 RT	1-1/2-3	Pulley, E37 R, 14" x 6" Face, with Bolts.
AE 108 RT	1-1/2-3	Pulley, E38 R, 16" x 6" Face, with Bolts.
AE 141 RT	6	Pulley, E13 R, 12" x 6", with Set Screw.
AK 465 RT	6	Pulley, K249 R, 20" x 8", with Set Screw.
AK 488 RT	6	Pulley, K291 R, 16" x 8", with Set Screw.
E 2153 RT	1-1/2	Washer, Belt Pulley Reinforcement.
K 2190 RT	6	Key, Belt Pulley.
<b>FRICTION CLUTCH PULLEY</b>		
AE 142 RT	6	Pulley, Friction Clutch, Complete, 12" x 8".
AE 143 RT	6	Pulley, Friction Clutch, Complete, 16" x 8".
AE 200 RT	6	Rim, Pulley, 12" x 8", Friction Clutch.
AK 182 RT	6	Pulley, Friction Clutch, Complete, 20" x 8".
D 136 R	6	Washer on Operating Shaft.
D 186 R	6	Pin, Operating Shaft, 1/4" Rd. x 1/2".
K 276 RT	6	Finger, Clutch.
K 278 RT	6	Guard.
K 280 RT	6	Adjusting Nut.
K 285 RT	6	Rim, Pulley, 16" x 8".
K 286 RT	6	Rim, Pulley, 20" x 8".
K 295 RT	6	Sleeve.
K 297 RT	6	Handwheel.
K 299 RT	6	Collar.
K 2037 RT	6	Grease Cup, No. 0 x 1/4".
K 2190 RT	6	Key, Belt Pulley, 5/8" x 1/2" x 3-3/8".
K 2852 R	6	Pin, Clutch Finger.
K 2853 R	6	Shaft, Clutch Operating.
K 2855 R	6	Key, Collar to Pulley, 1/2" x 1/2" x 13/16".
K 2856 R	6	Set Screw, Headless, 1/4" x 1/2".
K 2858 RT	6	Clutch Facing.

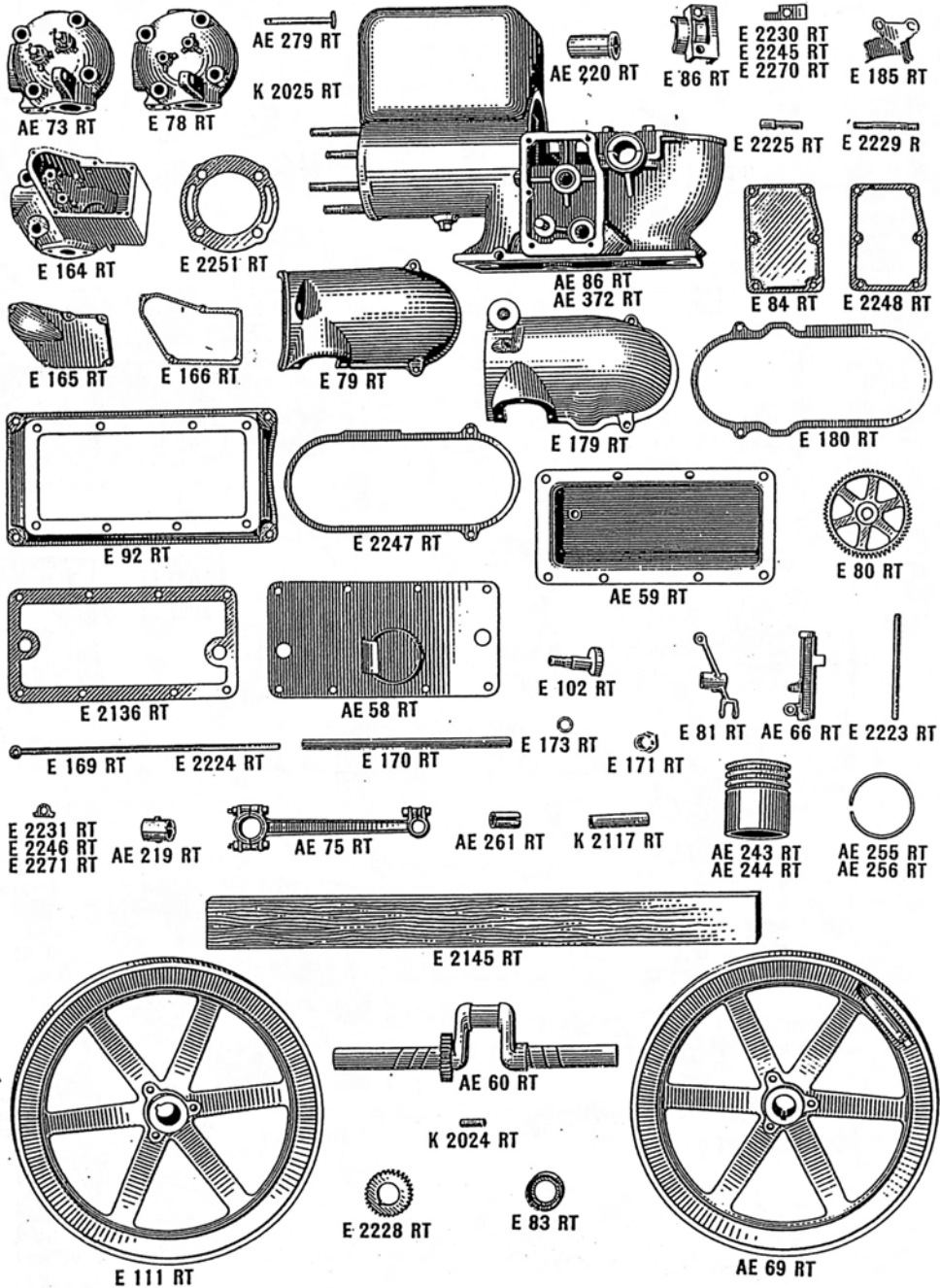


Part Number	H. P. Size	NAME AND DESCRIPTION
<b>HAND TRUCK FOR ENGINES</b>		
1716 RT	6	Washer, on Kingpin.....
AE 82 RT	1-1,2-3	Axle, Front, Complete with E45 RT Turntable.....
AE 83 RT	1-1,2-3	Axle, Rear, Complete with E43 RT Rear Bolster.....
AG 54 RT	6	Bolster.....
AG 55 RT	6	Axle, Rear.....
AG 56 RT	6	Axle, Front.....
D 147 R	6	Washer, on Axles.....
E 42 RT	1-1,2-3	Bolster, Front.....
E 43 RT	1-1,2-3	Bolster, Rear.....
E 44 RT	1-1,2-3	Wheel.....
E 46 RT	1-1,2-3	Turntable.....
E 2007 RT	6	Plate, Bolster.....
E 2131 RT	1-1,2-3	Handle.....
E 2133 RT	1-1,2-3	Brace, Rear Axle.....
K 3054 RT	6	Tongue.....
JD 617 E	6	Wheel.....
<b>MAGNETO</b>		
AE 36 RT	1-1,2-3-6	Magneto only.....
C 1197 RT	1-1/2	Felt, Magneto Oil Seal (After Serial No. 326571).....
E 16 RT	6	Gear, Magneto Drive.....
E 76 RT	1-1,2	Gear, Magneto Drive.....
E 88 RT	3	Gear, Magneto Drive.....
E 2185 RT	1-1,2-3-6	Gasket, Magneto Cover Plate.....
E 2213 RT	1-1,2	Cable, Magneto.....
E 2218 RT	1-1/2-3-6	Plate, Magneto Cover.....
E 2253 RT	3-6	Cable, Magneto.....
<b>MAGNETO PARTS</b>		
1701 R	1-1/2-3-6	Screw, Armature to Shaft (No Cut).....
B 1093 R	1-1/2-3-6	Screw, Frame End, No. 10-32 x 1/2" (No Cut).....
E 2302 RT	1-1,2-3-6	Oil Cup.....
HCT	1-1,2-3-6	Frame.....
HKZ	1-1,2-3-6	Key, Drive Shaft.....
HLS	1-1,2-3-6	Nut, Binding Post (Brass).....
HLW	1-1,2-3-6	Frame End.....
HMT	1-1,2-3-6	Strap, Magnet.....
HSP	1-1,2-3-6	Armature, Complete.....
HSW	1-1,2-3-6	Shaft, Armature Drive.....
HSX-HTA	1-1,2-3-6	Shaft, Armature with Collector Ring (Short).....
KHM	1-1,2-3-6	Washer, Armature Thrust.....
NYH	1-1,2-3-6	Magnet.....
PGG	1-1,2-3-6	Screw, Magnet Strap.....
PGP	1-1,2-3-6	Collector Brush with Spring.....
PGR	1-1,2-3-6	Ground Brush with Spring.....
PGW	1-1,2-3-6	Binding Post and Brush Holder with HLS.....
<b>IGNITER</b>		
AE 25 RT	1-1,2-3-6	Igniter, Complete.....
AE 38 RT	1-1,2-3-6	Electrode, Movable, with Point.....
AE 88 RT	1-1,2-3-6	Electrode, Stationary, with Point and Nuts.....
AE 134 RT	1-1,2-3-6	Body, Igniter, E108 R, with Pin.....
E 4 RT	6	Bracket, Igniter Trip.....
E 99 RT	1-1,2-3	Bracket, Igniter Trip.....
E 2057 R	1-1,2-3-6	Washer, Stationary Electrode.....
E 2072 RT	1-1,2-3-6	Pin, Igniter Torsion Spring (After Serial No. 238844).....
E 2163 RT	1-1,2-3-6	Hammer, Igniter.....
E 2227 RT	1-1,2-3-6	Gasket, Igniter.....
E 2234 RT	1-1,2-3-6	Point, Igniter Spark.....
E 2263 RT	1-1,2-3-6	Trip, Igniter.....
E 2268 RT	1-1,2-3-6	Spring, Igniter Trip Finger.....
E 2274 RT	1-1,2-3-6	Anvil, Igniter.....
E 2275 RT	1-1,2-3-6	Pin, Igniter Anvil.....
E 2276 RT	1-1,2-3-6	Spring, Igniter Main.....
E 2282 RT	1-1,2-3-6	Pin, Igniter Trip Finger.....
E 2294 RT	1-1,2-3-6	Spring, Igniter Torsion.....
E 2298 RT	1-1,2-3	Pin, Igniter Torsion Spring (Prior to Serial No. 238845).....
K 2316 RT	1-1,2-3-6	Mica Washers, Igniter (Set).....
K 2318 RT	1-1,2-3-6	Terminal, Magneto Cable.....

Part Number	H. P. Size	NAME AND DESCRIPTION
<b>BATTERY PARTS</b>		
1708 R	1-1/2-3	Washer, Ground Connection.....
AE 109 RT	1-1/2-3	Spacer, Battery.....
AE 111 RT	1-1/2-3	Box, Battery.....
AE 114 RT	1-1/2-3	Coil Box, with Contact Clips.....
E 2068 RT	1-1/2-3	Washer, Coil Box.....
E 2097 RT	1-1/2-3	Grommet, in Battery Box.....
E 2100 RT	1-1/2-3	Coil.....
E 2101 RT	1-1/2-3	Cable, Spark Plug.....
E 2102 RT	1-1/2-3	Wire, Coil to Battery.....
E 2102 RT	1-1/2-3	Wire, Switch to Timer.....
E 2103 RT	1-1/2-3	Wire, Coil to Ground Connection.....
E 2104 RT	1-1/2-3	Insulator for Switch.....
E 2105 RT	1-1/2-3	Insulator, Battery Box Sides.....
E 2106 RT	1-1/2-3	Insulator, Battery Box Bottom.....
E 2118 RT	1-1/2-3	Bottom Strip (Wood) Battery Box.....
E 2119 RT	1-1/2-3	Support, Battery Box.....
E 2120 RT	1-1/2-3	Cover, Battery Box.....
K 2318 RT	1-1/2-3	Terminal, Ground Connection.....
K 2330 RT	1-1/2-3	Switch.....
K 2807 RT	1-1/2-3	Wire, Battery to Switch.....
K 2807 RT	1-1/2-3	Battery Connectors.....
<b>STATIONARY TIMER</b>		
1708 R	1-1/2-3	Washer under Timer Nut.....
AE 115 RT	1-1/2	Bracket, Stationary Timer, E32 R, Complete.....
AE 118 RT	3	Bracket, Stationary Timer, E30 R, Complete.....
E 2107 RT	1-1/2-3	Point, Timer.....
E 2108 RT	1-1/2-3	Cap, Timer Stud.....
E 2109 RT	1-1/2-3	Stud, Timer.....
K 2316 RT	1-1/2-3	Mica Washers (Set).....
<b>MOVABLE TIMER</b>		
AE 116 RT	1-1/2-3	Bracket, Movable Timer, E35 R, Complete.....
E 2107 RT	1-1/2-3	Point, Timer.....
<b>(BATTERY) ENGINE PARTS</b>		
508 R	1-1/2-3	Spark Plug.....
A 1134 R	1-1/2-3	Safety Nipple, Spark Plug.....
AE 117 RT	1-1/2	Cover, Crankcase, E33 R, with Oil Guard.....
E 29 RT	3	Cover, Crankcase.....
E 31 RT	1-1/2-3	Plate, Spark Plug.....
E 34 RT	1-1/2-3	Camshaft.....
E 2227 RT	1-1/2-3	Gasket, Spark Plug Plate.....



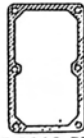








E 19 RT



E 2018 RT



E 8 RT



E 9 RT



E 2043 RT



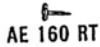
E 18 RT



E 2024 RT



E 2044 RT



AE 160 RT



E 2029 RT



321 R



K 2452 RT



E 12 RT



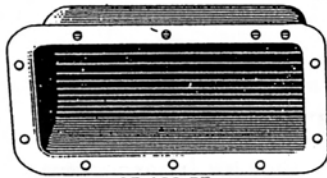
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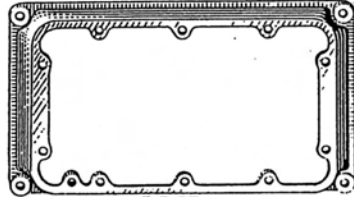
E 2042 RT



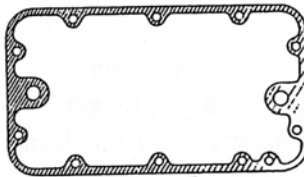
AE 167 RT



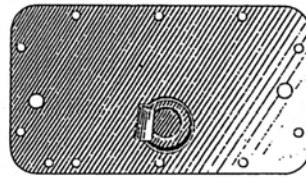
AE 169 RT



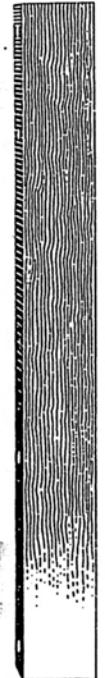
E 5 RT



E 2020 RT



AE 149 RT



E 2028 RT



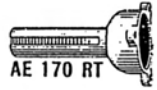
AE 162 RT



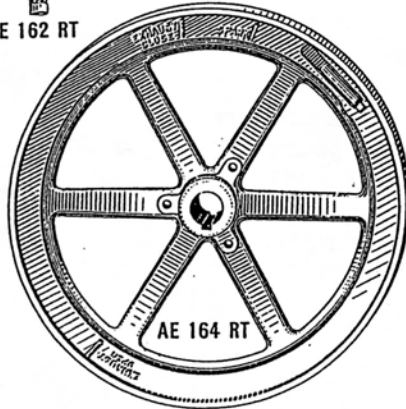
AE 150 RT



E 2049 RT

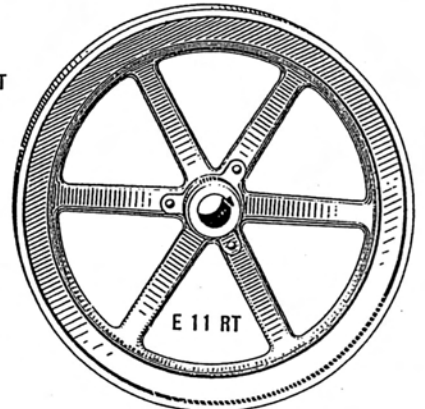


AE 170 RT



AE 164 RT

K 2191 RT



E 11 RT

***NOTICE:***

This book was put together by incorporating information from two smaller John Deere manuals. We did this to give you more information and pictures of the parts. It is complete as it is. The excerpts we took from the books are those that pertain to the John Deere model "E" 1, 3, & 6HP engines.

*Thank you!*

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