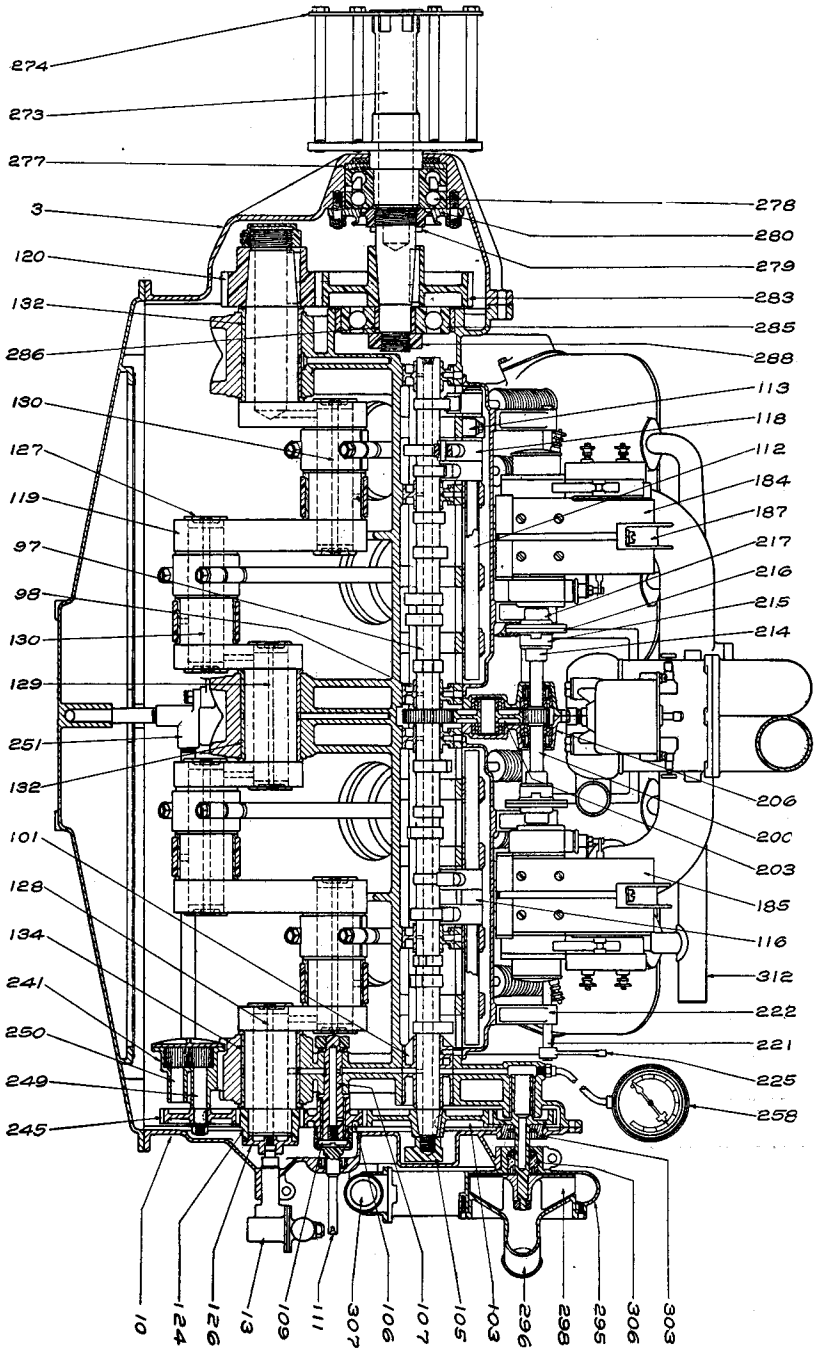
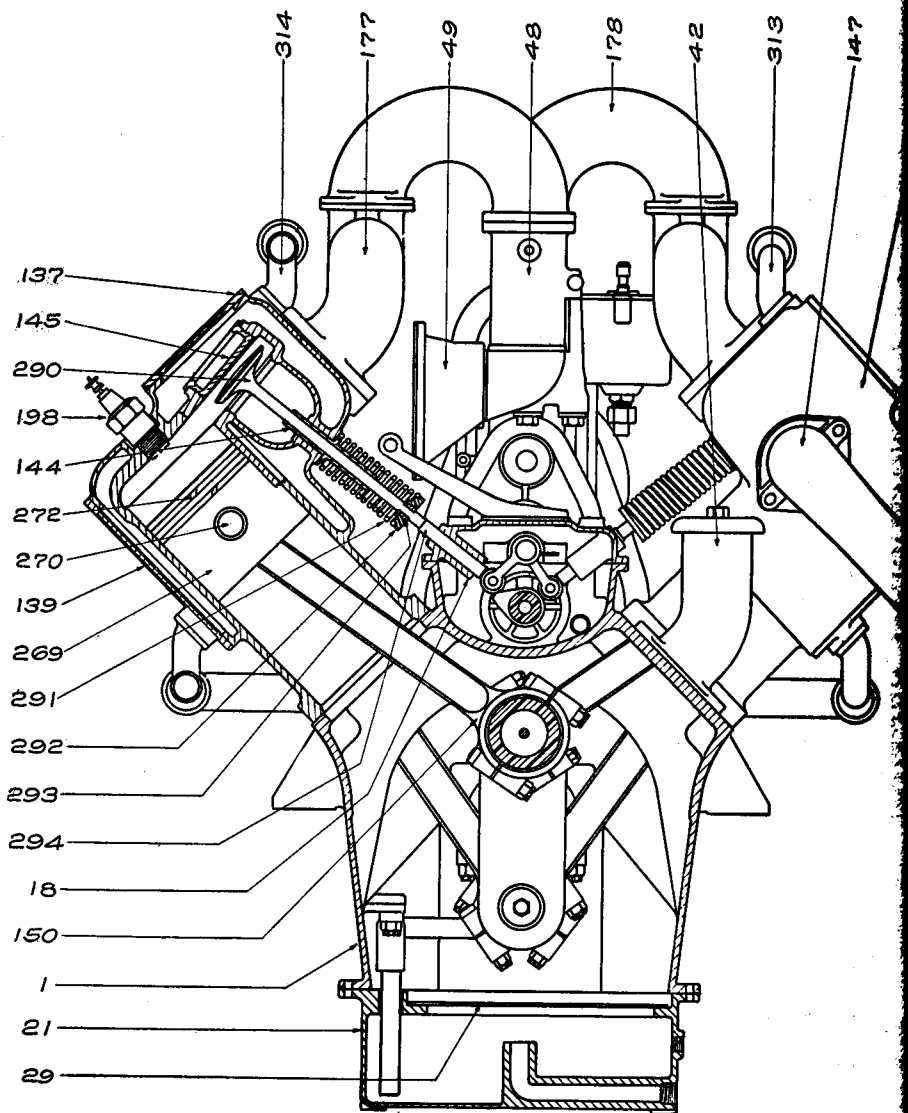


LONGITUDINAL SECTION





END VIEW

LIST OF PARTS

Base

1. Base with bearing caps, oil duct and cylinder studs.
2. Oil duct tube.
3. Front gear case.
4. Large bolt for front gear case.
5. Nut for bolt.
6. Lock washer for nut.
7. Small bolt for front gear case.
8. Nut for bolt.
9. Lock washer for nut.
10. Rear gear case.
11. Felt washer for speed countershaft.
12. Retaining screw.
13. Tachometer driving joint.
14. Bolt for water pump and tachometer.
15. Bolt to base.
16. Nut for bolt.
17. Lock washer for nut.
18. Camshaft cover plate.
19. Cap screw to base.
20. Lock washer for cap screw.
21. Oil sump.
22. Bolt to base.
23. Nut for bolt.
24. Lock washer for nut.
25. Pipe plug for oil drain.
26. Union elbow to GI tank.
27. Union nut.
28. Union nipple.
29. Oil filter screen.
30. Screw for filter screen.
31. Stud for centre and front bearing cap.
32. Nut for stud.
33. Plain washer for nut.
34. Stud for rear bearing cap.
35. Nut for stud.
36. Stud for cylinder.
37. Nut for stud.
38. Lock washer for nut.
39. Nameplate.
40. Pins for nameplate.
41. Ringbolt for lifting.

Breather

42. Body.
43. Cover.
44. Cap screw for cover.
45. Cap screw for base.
46. Lock washer for cap screw.

Carburetor

47. Jet body and float chamber.
48. Barrel body.
49. Air inlet.
50. Screw to jet body.
51. Lock washer for screw.
52. Air inlet screen.
53. Screw to air inlet.
54. Lock washer for screw.
55. Float cover.
56. Cover screw.
57. Lock washer for screw.
58. Needle valve cap.
59. Needle valve.
60. Valve lever weight.
61. Valve lever axle.
62. Needle valve collar.
63. Needle valve seat.
64. Union nut.
66. Fibre washer for nipple.
67. Float.
68. Choke tube.
69. Cap jet.
70. Main jet.
71. Compensator.
72. Fibre washer for jet and compensator.
73. Priming tube.
74. Lower plug.
75. Fibre washer for plug.
76. Slow speed screw.
77. Lock nut for screw.
78. Butterfly valve shaft and lever.
79. Butterfly valve.
80. Screw for butterfly valve.
81. Throttle pulley.
82. Pulley base.
83. Pulley plate.
84. Pulley spacer.
85. Screw for pulley.
86. Lock washer for screw.
87. Throttle spring.
88. Clip for throttle spring.
89. Yoke for throttle lever.
90. Hot air sleeve (hose connection).
91. Hot air sleeve (plain)
92. Bolt for sleeve.
93. Nut for bolt.
94. Lock washer for bolt.
95. Metal hose connection (long).
96. Metal hose connection (short).

LIST OF PARTS (Continued)

Camshaft

97. Camshaft.
98. Main camshaft bearings.
99. Screw for bearing.
100. Lock washer for screw.
101. Rear bearing.
102. Retaining screw for bearing.
103. Gear.
104. Key for gear.
105. Nut for gear and eccentric for oil supply pump.
106. Idler gear.
107. Stud for idler gear.
108. Nut for stud.
109. Retaining screw for idler gear.
110. Bushing for idler gear.
111. Speed countershaft.
112. Shaft for cam rocker.
113. Rocker Shaft Support.
114. Cap screw for rocker shaft support.
115. Lock washer for cap screw.
116. Spacing collar for cam rocker.
117. Washer for cam rocker shaft.
118. Cam rocker and roller.

Crankshaft

119. Crankshaft.
120. Crankshaft gear for front end.
121. Key for gear.
122. Nut for gear.
123. Lock screw for nut.
124. Gear for rear end.
125. Key for gear.
126. Tachometer driving dog.
127. Plugs.
128. Bolts for rear journal.
129. Bolt for center journal.
130. Bolt for crank pin.
131. Nut for bolt.
132. Half bushing for center and front bearing.
133. Liner for center and front bearing.
134. Half bushing for rear bearing.
135. Liner for rear bearing.

Cylinder

136. Cylinder with back plate.
137. Top plate.
138. Cap screw for top plate.
139. Back plate.

Cylinder (Continued)

140. Screw for back plate.
141. Stud for inlet manifold.
142. Nut for stud.
143. Lock washer for nut.
144. Valve guide bushing.
145. Valve cap
146. Priming cup.
147. Exhaust elbow.
148. Cap screw for elbow.
149. Lock washer for cap screw.

Connecting Rods

150. Rod and cap, babbited.
151. Bolt
152. Nut.
153. Liner
154. Small end bushing.
155. Lock screw for bushing.

Gaskets

156. Base to front gear case.
157. Base to rear gear case.
158. Base to sump.
159. Base to camshaft cover.
160. Base to cylinder.
161. Base to magneto drive housing.
162. Base to breather.
163. Cylinder to top plate.
164. Cylinder to back plate.
165. Cylinder to water pipes.
166. Cylinder to inlet manifold.
167. Inlet manifold to inlet pipe.
168. Inlet pipe to carburetor.
169. Magneto drive housing.
170. Oil pressure pump to bearing cap.
171. Oil supply pump to rear gear case cover.
172. Spark plug to cylinder.
173. Water pump cover to body.
174. Water pump to pipe.
175. Water pump screw to cover.
176. Valve cap to cylinder.
177. Inlet manifold.
178. Inlet pipe.
179. Cap screw, inlet pipe to manifold.
180. Lock washer for cap screw.
181. Bolt, carburetor to inlet pipe.
182. Nut for bolt.
183. Lock washer for nut.

LIST OF PARTS (Continued)

Ignition

- 184. Magneto, clockwise rotation, front end.
- 185. Magneto, anti-clockwise rotation, rear end.
- 186. Magneto locating pin.
- 187. Holding down yoke.
- 188. Cap screw for yoke.
- 189. Lock washer for cap screw.
- 190. Cable to spark plug 1L.
- 191. Cable to spark plug 2L.
- 192. Cable to spark plug 3L.
- 193. Cable to spark plug 4L.
- 194. Cable to spark plug 1R.
- 195. Cable to spark plug 2R.
- 196. Cable to spark plug 3R.
- 197. Cable to spark plug 4R.
- 198. Spark plug.
- 199. Spark plug terminal.
- 200. Magneto driving gear and shaft.
- 201. Key for shaft.
- 202. Ball bearings.
- 203. Idler gear.
- 204. Idler gear shaft.
- 205. Ball bearings.
- 206. Gear housing (half).
- 207. Bolt for housing.
- 208. Nut for bolt.
- 209. Lock washer for nut.
- 210. Screw for base.
- 211. Lock washer for screw.
- 212. Felt washer for housing.
- 213. Retainer screw for felt washer.
- 214. Coupling for drive shaft.
- 215. Coupling block.
- 216. Adjusting coupling (14 holes).
- 217. Magneto coupling (12 holes).
- 218. Bolt for coupling.
- 219. Nut for bolt.
- 220. Lock washer for nut.
- 221. Spark advance shaft.
- 222. Bracket for spark advance shaft.
- 223. Screw for bracket.
- 224. Lock washer for screw.
- 225. Spark advance lever for magneto.
- 226. Yoke end for lever (male).
- 227. Nut for yoke end.
- 228. Yoke end for magneto (female)
- 229. Spark advance lever for spring.

Ignition, (Continued)

- 230. Bolt for lever.
- 231. Nut for bolt.
- 232. Lock washer for nut.
- 233. Throttle spring.
- 234. Spring clip.
- 235. Spark advance.
- 236. Yoke for lever.
- 237. Pulley for control wire.
- 238. Pulley block.
- 239. Nut for pulley block.
- 240. Pulley pin.

Oil Pressure Pump

- 241. Body.
- 242. Cover.
- 243. Screw for cover.
- 244. Lock washer for screw.
- 245. Driving gear.
- 246. Key for gear.
- 247. Nut.
- 248. Lock Washer.
- 249. Driving gear and shaft.
- 250. Idler gear and shaft.
- 251. Suction pipe.
- 252. Stud for pipe.
- 253. Nut for stud.
- 254. Relief valve.
- 255. Relief valve spring.
- 256. Relief valve guide.
- 257. Relief valve lock nut.
- 258. Pressure gauge.

Oil Supply Pump

- 259. Body.
- 260. Plunger.
- 261. Plunger spring.
- 262. Ball valve.
- 263. Valve spring.
- 264. Large plug.
- 265. Small plug.
- 266. Cap screw to gear case cover.
- 267. Lock washer for cap screw.
- 268. Sight gauge.

Piston

- 269. Piston.
- 270. Wrist pin.
- 271. Lock screw for wrist pin.
- 272. Piston ring.

LIST OF PARTS (Continued)

Propeller Shaft

- 273. Propeller shaft.
- 274. Front plate for propeller.
- 275. Cap screw for propeller.
- 276. Felt washer for gear case.
- 277. Felt washer retainer.
- 278. Ball bearing for gear case.
- 279. Lock nut for ball bearing.
- 280. Thrust plate.
- 281. Stud for thrust plate.
- 282. Nut for stud.
- 283. Gear.
- 284. Key for gear.
- 285. Ball bearing for base.
- 286. Internal bushing.
- 287. External bushing in base.
- 288. Nut for ball bearing.

Valve

- 289. Inlet valve.
- 290. Exhaust valve.
- 291. Valve spring.
- 292. Valve spring cap.
- 293. Valve spring key (half).
- 294. Push rod.

Water Pump and Pipes

- 295. Water pump body.
- 296. Water pump cover.
- 297. Screw for cover.
- 298. Water pump impeller.
- 299. Water pump gear and shaft.
- 300. Nut for shaft.
- 301. Plain washer for nut.
- 302. Bushing for base for water pump gear.
- 303. Thrust pad for gear case.
- 304. Felt washer for pad.
- 305. Retaining screw.
- 306. Stuffing box nut for water pump.
- 307. Water pipe pump to cylinders.
- 308. Drain plug.
- 309. Stud for water pipe.
- 310. Nut for stud.
- 311. Lock washer for nut.
- 312. Water pipe for rear cylinder.
- 313. Water pipe for front cyl. (right hand)
- 314. Water pipe for front cyl. (left hand)
- 315. Cap screw water pipe to cylinder.
- 316. Lock washer for cap screw.
- 317. Hose connection (short).
- 318. Hose connection (long).
- 319. Hose clip.

When ordering parts give in each case the number of the part and the serial number of the engine marked on the name-plate.

If practical, the old parts should be returned to us, express prepaid.