SPARE PARTS LIST

FOR

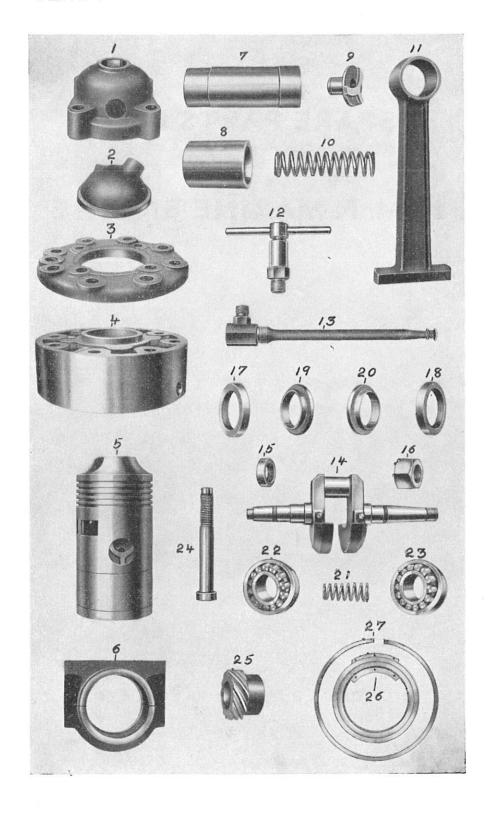
H. M. F. MARINE ENGINE

ALWAYS QUOTE ENGINE NUMBER
WHEN ORDERING SPARE PARTS



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Part Number	NAME OF PART
1	Hot Bulb Cover
2	Hot Bulb (Ignition Head)
3	Cylinder Head Cover
4	Cylinder Head
5	Piston
6	Big End Bearing Assembly, Connecting Rod
7	Gudgeon Pin
8	Small End Bush, Connecting Rod
9	Oil Scoop
10	Oil Scoop Spring
11	Connecting Rod
12	Blow-Off Valve Assembly
13	Oil Lead, Thrower Ring
14	Crankshaft
15	Retaining Nut, Clutch
16	Retaining Nut, Flywheel
17	Locking Ring, Main (roller) Bearing-rear
18	Locking Ring, Main (roller) Bearing - front
19	Packing Ring - rear
20	Packing Ring - front
21	Packing Ring Spring
22	Main (roller) Bearing - rear
23	Main (roller) Bearing - front
24	Bolt, Big End Bearing
· 25	Worm Wheel, Crankshaft
26	Oil Thrower Ring
27	Piston Ring

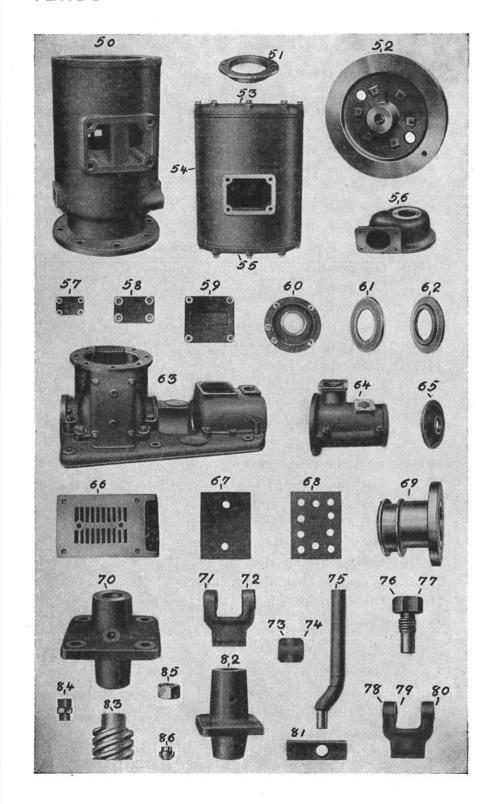
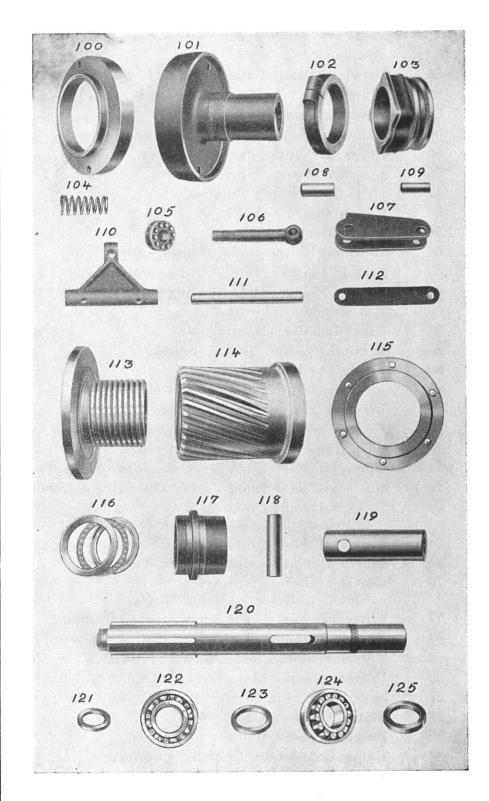
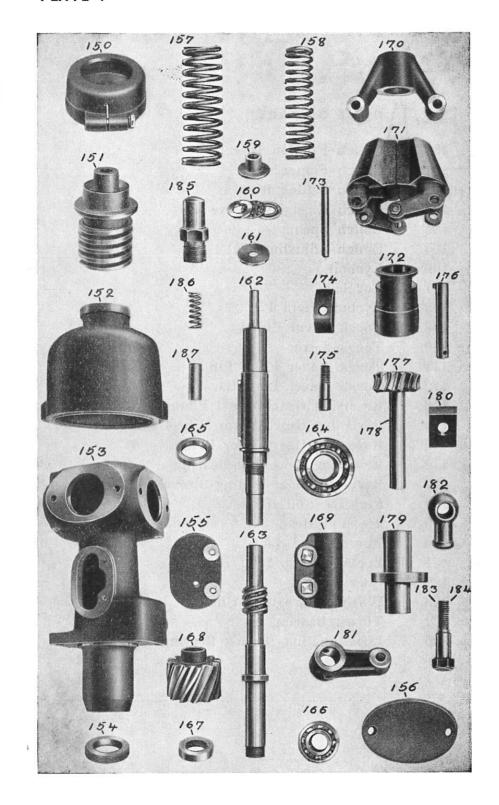


PLATE 2 Part NAME OF PART Number 50 Cylinder 51 Packing Gland, Exhaust Pipe 52 Flywheel 53 Cover, Exhaust Silencer - top Exhaust Silencer 54 55 Cover, Exhaust Silencer - bottom 56 Govenor Worm Wheel Housing Cylinder Cleaning Door 57 Clutch Guard Cover 58 Air Intake Cover 59 60 Retaining Cover, Main Bearing - front 61 Sealing Flange, Main Bearing - front 62 Sealing Flange, Main Bearing - rear 63 Bed Frame 64 Reversing Gear Housing 65 Retaining Cover, Thrust Bearing 66 Air Intake Grating Air Intake Breather Flap (leather) 67 68 Breather Flap Supporting Plate 69 Fixed Clutch Plate with Eccentric 70 Reversing Gear Housing, upper part 71 Universal Joint Link, Reversing Gear Shaft 72 Universal Joint Link, Clutch Operating Lever 73 Universal Joint Cross Piece, Clutch & Reversing Gear Shafts 74 Universal Joint Cross Piece, Governor Rod 75 Clutch Operating Crank Lever 76 Universal Joint Pivot Screw, Clutch & Reversing Gear Shafts 77 Universal Joint Pivot Screw, Guvernor Rod 78 Universal Joint Link, Reversing Gear Extension Shaft 79 Universal Joint Link, Clutch Lever Extension Shaft 80 Universal Joint Link, Governor Extension Shaft 81 Slide Block, Clutch Operating Lever 82 Clutch Housing - upper part 83 Reversing Gear Worm 84 Union Connection, Cylinder Lubricating 85 Union Nut, Lubricating Oil Pipe 86 Nipple, Lubricating Oil Pipe

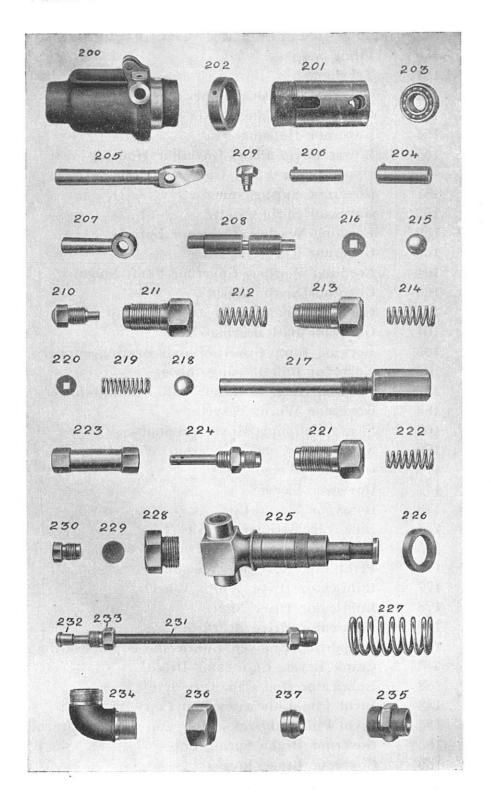


Part Number	NAME OF PART
100	Clutch Friction Disc
101	Clutch Flange
102	Clutch Setting Ring
103	Clutch Engaging Sleeve
104	Clutch Spring
105	Clutch Adjusting Nut
106	Eyebolt
107	Toggle
108	Eyebolt Pivot Pin
109	Toggle Pivot Pin
110	Toggle Lever
111	Toggle Lever Pivot Pin
112	Toggle Lever Link Bar
113	Reversing Gear Thrust Flange
114	Reversing Gear Worm Wheel (long)
115	Reversing Gear Cover Plate
116	Reversing Gear Ball Bearing
117	Reversing Gear Sliding Sleeve
118	Pin, Tie Rod Head
119	Tie Rod Head
120	Intermediate Shaft
121	Locking Ring, Idler Bearing
122	Idler Bearing
123	Washer Thrust Bearing
124	Thrust Bearing
125	Locking Ring, Thrust Bearing

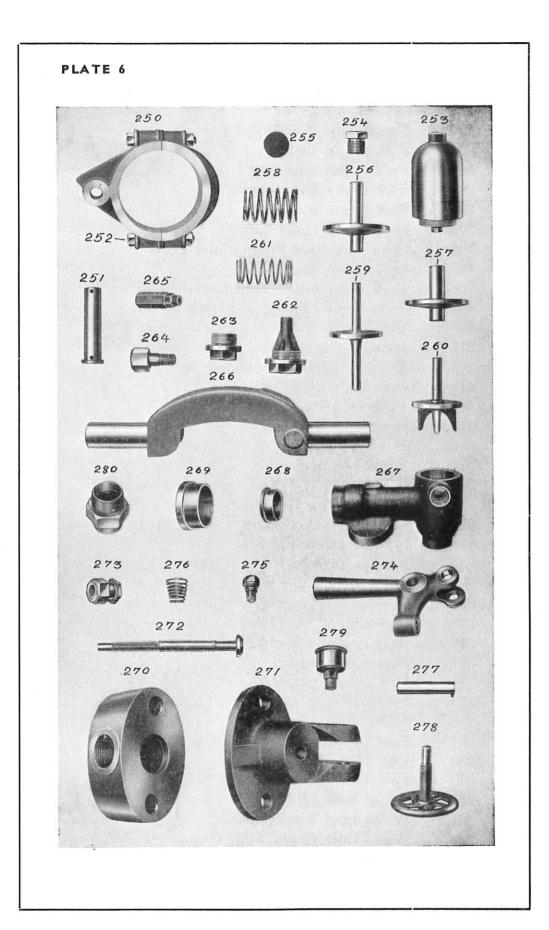
PLATE 4



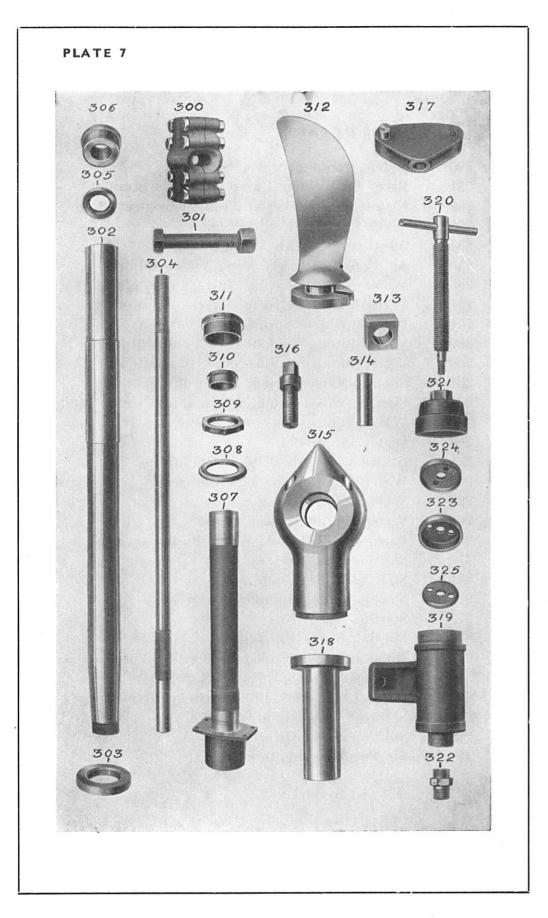
1	PLATE 4
Part Number	NAME OF PART
150	Idling Stop
151	Tensioner
152	Governor Housing, upper part
153	Governor Housing, lower part
154	Governor Housing Nut
155	Lower Cover Plate, Governor Housing
156	Upper Cover Plate, Governor Housing
157	Governor Spring, inner
158	Governor Spring, outer
159	Locating Washer, Governor Springs
160	Governor Thrust Bearing
161	Locating Washer, Governor Shaft Spigot
162	Governor Shaft, upper
163	Governor Shaft, lower
164	Governor Ball Bearing - upper
165	Locking Ring, Governor Ball Bearing - upper
166	Governor Ball Bearing - lower
167	Locking Ring, Governor Ball Bearing - lower
168	Governor Worm Wheel
169	Sleeve Coupling, Governor Shafts
170	Supporting Collar, Governor Weight
171	Governor Weigt
172	Governor Sleeve
173	Governor Sleeve Pin
174	Link Block, Governor Sleeve
175	Link Block Screw, Governor Sleeve
176	Pivot Pin, Governor Weight
177	Lubricator Drive Worm Wheel
178	Lubricator Drive Shaft
179	Lubricator Drive Bearing
180	Supporting Bracket, Lubricator Drive Bearing
181	Crank Lever, Lubricator Drive
182	Lubricator Rod Cap, with Eye
183	Pivot Pin, Lubricator Rod Cap - drive end
184	Pivot Pin, Lubricator Rod Cap - lubricator end
185	Governor Brake Spring Cap
186	Governor Brake Spring
187	Governor Brake Pin



Part		PLATE 5
Number	NAME OF PART	
200	Fuel Pump Housing	
201	Fuel Pump Ram	
202	Fuel Pump Ram Nut	*
203	Fuel Pump Ball Bearing	
204	Fuel Pump Ram Bolt	
205	Fuel Pump Hand Lever	
206	Pivot Pin, Fuel Pump Hand Lever	
207	Fuel Pump Stop Lever	
208	Shaft, Fuel Pump Stop Lever	
209	Pivot Screw, Fuel Pump Stop Lever	
210	Atomiser Nozzle	
211	Atomiser Suction Valve	
212	Atomiser Suction Valve Spring	
213	Atomiser Delivery Valve	
214	Atomiser Delivery Valve Spring	
215	Atomiser Valve Ball	
216	Retaining Nut, Valve Ball Spring	
217	Injector Tube	
218	Injector Valve Ball	
219	Injector Valve Ball Spring	
220	Retaining Nut, Injector Valve Spring	
221	Injector Delivery Valve	
222	Injector Delivery Valve Spring	
223	Injector Air Chamber - outer	
224	Injector Air Chamber - inner	
225	Fuel Pump Assembly	
226	Fuel Pump Assembly Nut	
227	Fuel Pump Spring	
228	Fuel Pump Plug	
229	Safety Disc, Fuel Pump Plug	
230	Safety Disc Screw, Fuel Pump Plug	
231	Fuel Delivery Pipe Assembly	
232	Fuel Delivery Pipe Nipple	
233	Fuel Delivery Pipe Union Nut	
234	Water Inlet Elbow	
235	Water Inlet Union Body	
236	Water Inlet Union Nut	
237	Water Inlet Union Nipple	

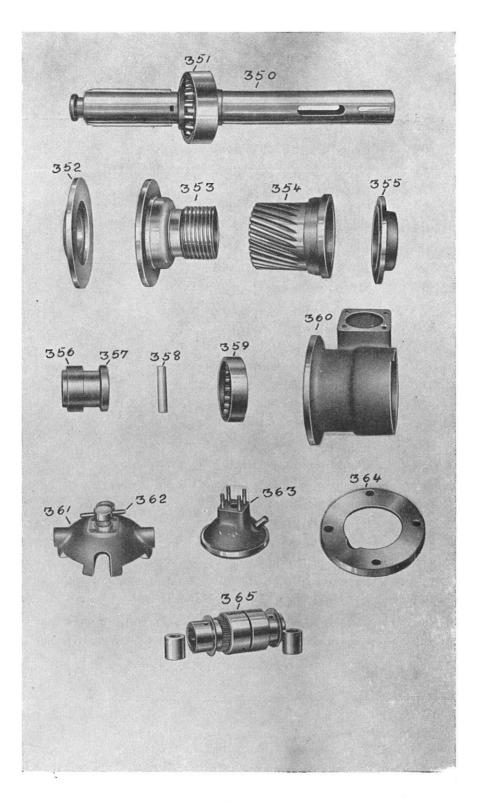


Part Number	NAME OF PART	
250	Water Pump Eccentric Strap	
251	Pivot Pin, Water Pump Eccentric Strap	
252	Clamping Bolt, Water Pump Eccentric Strap	
253	Water Pump Air Chamber	
254	Air Chamber Nut, Water Pump	
255	Air Chamber Safety Disc, Water Pump	
256	Water Pump Delivery Valve - new Model	
257	Water Pump Delivery Valve - old Model	
258	Delivery Valve Spring, Water Pump	
259	Water Pump Suction Valve - new Model	
260	Water Pump Suction Valve - old Model	
261	Suction Valve Spring, Water Pump	
262	Suction Valve Guide, Water Pump - new Model	
263	Water Pump Plug - old Model	
264	Water Pump Bolt	
265	Grease Cup Valve, Water Pump	
266	Water Pump Yoke with Plungers	
267	Water Pump Housing	
268	Water Pump Packing Gland	
269	Packing Gland Nut, Water Pump	
270	Starting Valve Seat	
271	Starting Valve Guide	
272	Starting Valve Spindle	
273	Starting Valve Nut	
274	Starting Valve Hand Lever	
275	Hand Lever Pivot Screw, Starting Valve	
276	Starting Valve Spring	
277	Hand Lever Link Pin, Starting Valve	
278	Starting Valve Hand Wheel	
279	Starting Valve Grease Cup	
280	Starting Pipe Union	

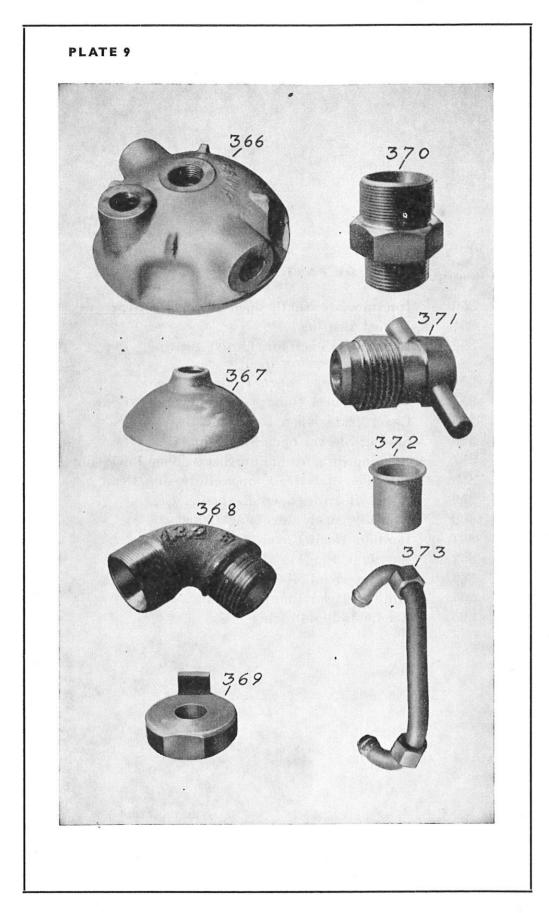


Part Number	NAME OF PART
300	Propeller Shaft Sleeve Coupling
301	Sleeve Coupling Bolt, Propeller Shaft
302	Propeller Shaft
303	Propeller Shaft Nut
304	Tie Rod
305	Tie Rod Packing Ring
306	Tie Rod Packing Nut
307	Stern Tube
308	Stern Tube Clamping Ring
309	Stern Tube Clamping Nut
310	Stern Tube Packing Gland
311	Stern Tube Gland Nut
312	Propeller Blade
313	Propeller Blade Slipper Block
314	Slipper Block Pin, Propeller Blade
315	Propeller Boss
316	Propeller Boss Bolt
317	Tie Rod Crosshead
318	Propeller Boss Bush
319	Grease Gun Housing
320	Grease Gun Spindle
321	Grease Gun Cover
322	Grease Gun Union
323	Grease Gun Cup Leather
324	Cup Leather Clamping Plate - upper, Grease Gun
325	Cup Leather Clamping Plate - lower, Grease Gun

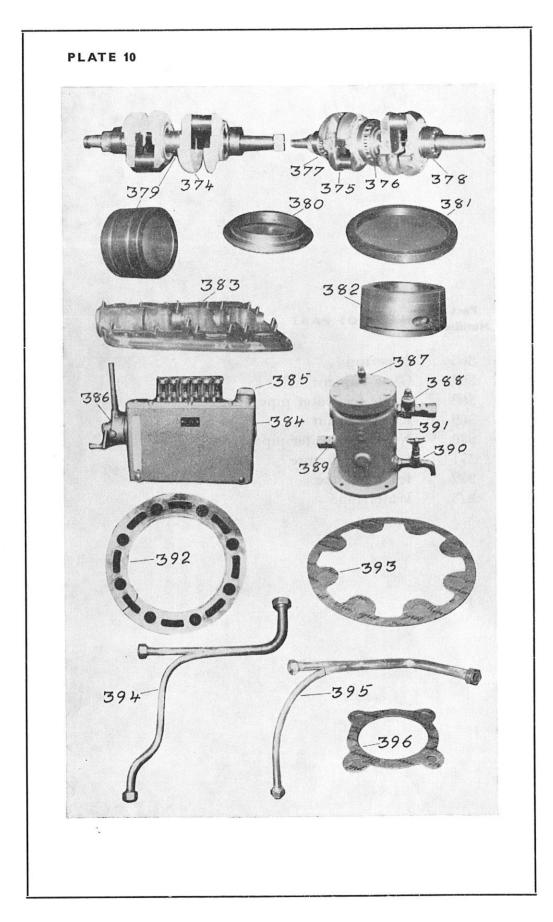




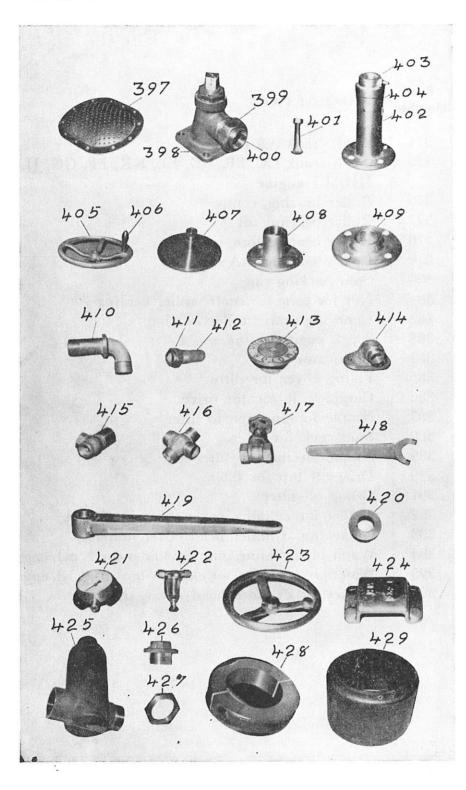
Part Number	NAME OF PART
350	Intermediate Shaft, open Reversing Gear
351	Thrust Bearing
352	Retaining Cover for Thrust Bearing, open Reversing Gear
353	Thrust Flange, open Reversing Gear
354	Worm Wheel (long), open Reversing Gear
355	Cover plate, open Reversing Gear
356	Sliding Sleeve, open Reversing Gear
357	Locking Ring for Sliding Sleeve, open Reversing Gear
358	Pin, Tie Rod Head, open Reversing Gear
359	Roller Bearing, open Reversing Gear
360	Housing, open Reversing Gear
361	Ignition Head Cover, Bronze
362	Cartridge Plug
363	Ignition Head, for Bronze Cover
364	Ignition Head Clamping Ring
365	Needle Roller Bearing



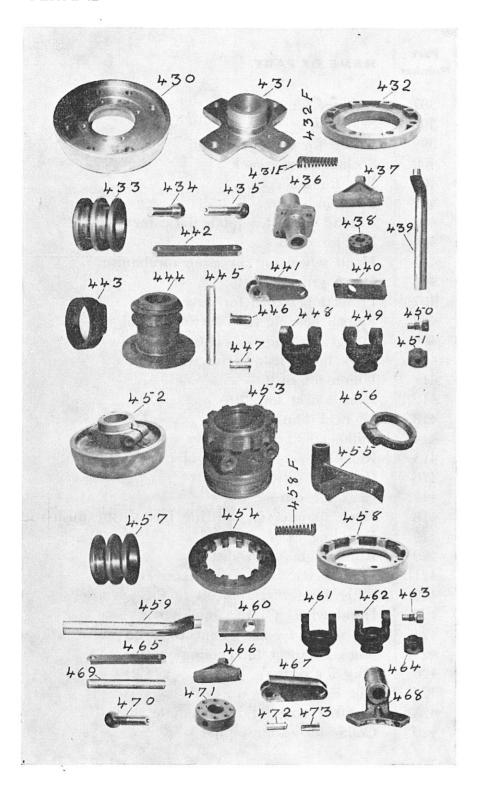
Part Number	NAME OF PART
366	Supertop
367	Glow screen
368	Angle for water pipe
369	Retainer iron
370	Nipple for water pipe
371	Cartridge fixture
372	Ignition tube
373	Water pipe



Part Number	NAME OF PART
374	2 cyl. crank AA engine
375	2 cyl. crank CC, BB, DD, EE, KK, FF, GG, JJ,
	HH, TT engine
376	Roller bearing, centre
377	Roller bearing, aft
378	Roller bearing fore
379	Centre bearing, AA engine
380	Split packing ring
381	Nut for cone for centre roller bearing
382	Cone for centre roller bearing
383	2 cyl. engine frame
384	Lubricator
385	Filling cover for ditto
386	Complete lubricator drive
387	Nipple for air pipe to filter
388	Stop cock for filter
389	Nipple for inlet to filter
390	Draw-off tap for filter
391	Crude oil filter
392	Gasket for cylinder cover, copper-asbestos
393	Gasket for cylinder head cover, outer
394	Water pipe cooling pump/cylinder for 2. cyl. engine
395	Water pipe cold-starter/exhaust-box for 2 cyl. engine
396	Gasket for cylinder head cover, inner
1	



Part Number	NAME OF PART
397	Strainer for sea cock
398	Sea cock
399	Union for sea cock
400	Socket for sea cock
401	Bolt for sea cock
402	Pitch indicator
403	Thread piece for pitch indicator
404	Nut for ditto
405	Hand wheel for reversing mechanism
406	Hand grip for ditto
407	Protection screen for governor
408	Flange bearing for control rod, high
409	Flange bearing for control rod, low
410	Deck house lead-in for wash water
411	Union for ditto
412	Hose socket for ditto
413	2" deck flange
414	Bulkhead angle for water outlet
415	Relief valve for wash water
416	Cross for ditto
417	Cock for ditto
418	Hook spanner for stuffing box to the push rod
419	Coupling lever
420	Rubber gland for ditto
421	Manometer for starting receiver
422	Filter for lubrication oil to the governor
423	Hand wheel fot the governor
424	Oil screen for the connecting rod
425	shock balancer for cooling pump
426	Plug for ditto
427	Nut for ditto
428	Distance ring for intermediate shaft
429	Collar for exhaust pipe



 Part		
Number	CLUTCH PARTS TYPE C	PLATE 12
430	Clutch flange	ю,
431	Clutch hub	
431 F	Spring for clutch hub	
431 S	Stay bolt for ditto	
432	Clutch friction disc	
432 F	Spring for clutch	
433	Clutch engaging sleeve	
434	Bolt for hub of clutch	
435	Draw bolt for clutch	-
436	Clutch tower	9
437	Toggle lever	
438	Adjustment nut for clutch	
439	Cranck for clutch	
440	Slide block for clutch	
441	Toggle for clutch	
442	Toggle lever link bar for ditto	
443	Clutch setting ring	
444	Fixed clutch plate for clutch with	eccentric
445	Toggle lever pivot pin	
446 447	Bolt for draw bolt	
447	Bolt for toggle and toggle lever	
449	Universal joint for clutch crank	
450	Universal joint for control rod Screw for universal joint	
451	Block for universal joint	
131	CLUTCH PARTS TYPE R	
450		
452	Clutch flange	
453 454	Clutch hub with eccentric Dent disc for ditto	
455		
456	Reversing bearing Adjusting nut	
457	Double sliding socket for clutch	
458	Clutch friction disc	
458 F	Spring for clutch	
459	Crank for clutch	
460	Slide block for ditto	
461	Universal joint for clutch	
462	Universal joint for control rod	
463	Screw for universal joint	
464	Slide block for universal joint	
465	Toggle lever link bar for clutch	
466	Toggle lever	
467	Toggle	
468	Clutch tower	
469	Bolt for toggle lever pivot pin	
470	Draw bolt	
471	Adjusting nut for clutch	
472	Bolt for toggle and toggle lever	İ
473	Bolt for draw bolt	l

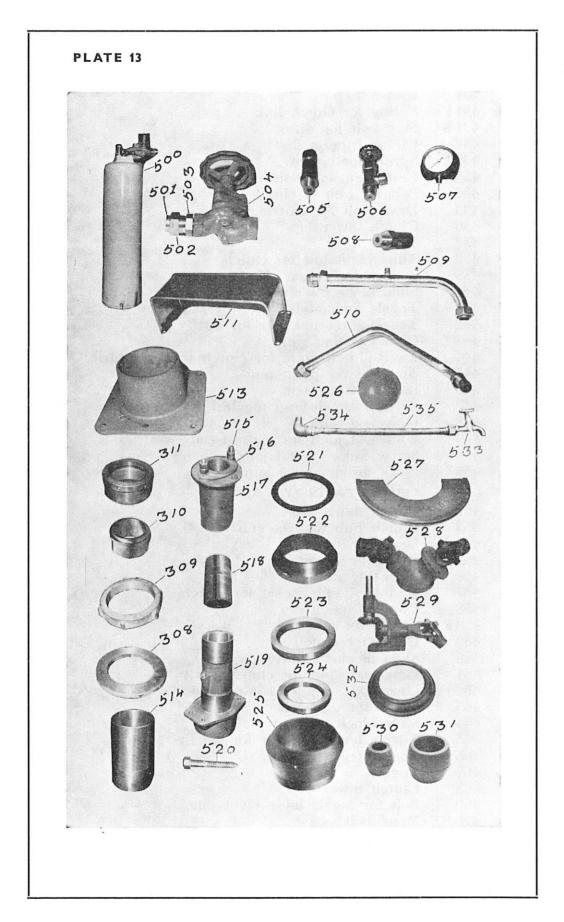


PLATE 13 Part NAME OF PART Number 500 Starting receiver Socket for starting pipe 501 Union for starting pipe 502 Nipple for starting pipe 503 504 Valve for starting receiver 505 Drain valve for starting receiver 506 Valve for filling the starting receiver 507 Manometer Relief valve 508 Cooling water pipe, cylinder/exhaust box for 509 1 cyl. engine Cooling water pipe, pump/cylinder for 1 cyl. engine 510 Screen for lubricator 511 Deck flange for exhaust pipe 513 Union for stern tube 311 Stuffing box for stern tube 310 Nut for stern tube 309 Washer plate for stern tube 308 Stern tube end inside, standard stuffing box 514 Stay bolt for stuffing box inside 515 Inside stuffing box 516 Fore stern tube end, indside stoffing box 517 Intermediate tube for stern tube 518 Aft stern tube end 519 Screw for stern tube end 520 »O«-ring for stern tube sealing 521 Metal cone for ditto 522 Stainless steel valve seat for cooling pump, top valve 523 Stainless steel under valve seat for cooling pump 524 Rubber cone for stern tube sealing 525 Rubber ball for bilge pump 526 1/2 tightening flange for clutch housing 527 Bevel gear with ball bearings for reversing mechanism 528 Bevel gear for governor 529 Suction valve spring made of rubber for cooling pump 530 Pressure valve spring made of rubber for 531 cooling pump