



Service Department:

THE ROVER COMPANY LIMITED

By Appointment to
Her Majesty
Queen Elizabeth II



Manufacturers
of Motor Cars and
Land-Rovers

SOLIHULL
WARWICKSHIRE
ENGLAND

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Item 204 SUBJECT: **ENGINE ASSEMBLY**

MODEL: Land-Rover 6-cylinder Forward Control.

MODIFICATION: Introduction of larger diameter crankshaft main journals with bearings, etc., to suit.

PART NUMBERS:	Engine assembly	.....	.....	.....	.....	.....	.....	1	600469
	Engine assembly, re-built	.....	.....	.....	.....	.....	.....	1	600470
	Cylinder block assembly	.....	.....	.....	.....	.....	.....	1	600180
	Stud kit for cylinder block	.....	.....	.....	.....	.....	.....	1	535708
	Dowel for bearing cap	.....	.....	.....	.....	.....	.....	14	530354
	Crankshaft assembly standard	.....	.....	.....	.....	.....	.....	1	541910
	Crankshaft assembly .010 in. undersize	.....	.....	.....	.....	.....	.....	1	600170
	Crankshaft assembly .020 in. undersize	.....	.....	.....	.....	.....	.....	1	600171
	Crankshaft assembly .030 in. undersize	.....	.....	.....	.....	.....	.....	1	600172
	Crankshaft assembly .040 in. undersize	.....	.....	.....	.....	.....	.....	1	600173
	Key for chainwheel, front	.....	.....	.....	.....	.....	.....	1	542622
	Key for chainwheel, rear	.....	.....	.....	.....	.....	.....	1	542623
	Chainwheel on crankshaft	.....	.....	.....	.....	.....	.....	1	541882
	Main bearing, standard	.....	.....	.....	.....	.....	.....	7	600161
	Main bearing, .010 in. undersize	.....	.....	.....	.....	.....	.....	7	600162
	Main bearing, .020 in. undersize	.....	.....	.....	.....	.....	.....	7	600163
	Main bearing, .030 in. undersize	.....	.....	.....	.....	.....	.....	7	600164
	Main bearing, .040 in. undersize	.....	.....	.....	.....	.....	.....	7	600165
	Thrust washer for crankshaft, standard	.....	.....	.....	.....	.....	.....	1	600177
	Thrust washer for crankshaft, .0025 in. oversize	.....	.....	.....	.....	.....	.....	1	600174
	Thrust washer for crankshaft, .005 in. oversize	.....	.....	.....	.....	.....	.....	1	600175
	Thrust washer for crankshaft, .0075 in. oversize	.....	.....	.....	.....	.....	.....	1	600176
	Thrust washer for crankshaft, .010 in. oversize	.....	.....	.....	.....	.....	.....	1	600178
	Thrust washer for crankshaft, .0125 in. oversize	.....	.....	.....	.....	.....	.....	1	600179
	Bearing set for crankshaft, standard	.....	.....	.....	.....	.....	.....	1	600181
	Bearing set for crankshaft, .010 in. undersize	.....	.....	.....	.....	.....	.....	1	600182
	Bearing set for crankshaft, .020 in. undersize	.....	.....	.....	.....	.....	.....	1	600183
	Bearing set for crankshaft, .030 in. undersize	.....	.....	.....	.....	.....	.....	1	600184
	Bearing set for crankshaft, .040 in. undersize	.....	.....	.....	.....	.....	.....	1	600185
	Oil thrower on crankshaft	.....	.....	.....	.....	.....	.....	1	530343
	Oil seal ring for crankshaft	.....	.....	.....	.....	.....	.....	1	541921
	Vibration damper assembly	.....	.....	.....	.....	.....	.....	1	541917
	Starting dog	.....	.....	.....	.....	.....	.....	1	546324
	Lock washer for starting dog	.....	.....	.....	.....	.....	.....	1	546333
	Rear bearing oil seal assembly	.....	.....	.....	.....	.....	.....	1	542494
	Dowel, lower	.....	.....	.....	.....	.....	.....	2	519064
	Dowel, upper	.....	.....	.....	.....	.....	.....	2	246464
	Spring washer	.....	.....	.....	.....	.....	.....	10	3074
	Bolt (1/4 in. UNF x 3/8 in. long)	.....	.....	.....	.....	.....	.....	10	255208

Cylinder head	.....	.....	.....	.....	.....	1	542591
Gasket for cylinder head	.....	.....	.....	.....	.....	1	542351
Decarbonising gasket set	.....	.....	.....	.....	.....	1	600383
Engine overhaul gasket set	.....	.....	.....	.....	.....	1	600384

COMMENCING NUMBERS:

Engines with suffix letter 'B' onwards.

REMARKS:

The only parts which are interchangeable between early and late are: engine complete assembly, cylinder head and cylinder head gasket. All other parts are non-interchangeable and both early and late types should be stocked.

Item 205 SUBJECT:

OIL LEVEL ROD TUBE AND CYLINDER BLOCK

MODELS:

Land-Rover Series IIA 88 Regular, 109 Long, 88 and 109 Station Wagon, 109 Forward Control 4-cylinder.

MODIFICATION:

Introduction of an oil level rod tube secured to the cylinder block by a tube nut replacing the tube requiring double-ended union, tube nut and copper washer; this modification also affects the cylinder block to suit the new tube nut size.

PART NUMBERS:

Dipstick tube complete	.....	.....	.....	.....	.....	1	541860
Cylinder block assembly	.....	.....	.....	.....	.....	1	541891
Stud kit for cylinder block	.....	.....	.....	.....	.....	1	600245

COMMENCING NUMBERS:

Petrol and Diesel engines on the 88 Regular, 109 Long and 88 and 109 Station Wagon from engine suffix 'F' onwards.

109 Forward Control, 4 cylinder models from engine suffix 'D' onwards.

Please note that suffix letter 'E' has not been used on the 88 and 109 basic engines and that suffix letter 'C' has not been used on the 4 cylinder Forward Control engine.

REMARKS:

Early and late type dipstick tubes are not interchangeable and both types should be stocked, however, the latest type cylinder block can be used on all earlier models in the above range in conjunction with stud kit Part No. 600245 which includes a dipstick tube suitable for the latest type cylinder block.

Item 206 SUBJECT:

PISTON ASSEMBLIES

MODEL:

Land-Rover 109 Forward Control, 6 cylinder.

PART NUMBERS:

Piston assembly, Grade Z	.....	.....	.....	.....	.....	6	546495
Piston assembly, Grade A	.....	.....	.....	.....	.....	6	546496
Piston assembly, Grade B	.....	.....	.....	.....	.....	6	546497
Piston assembly, Grade C	.....	.....	.....	.....	.....	6	546498
Piston assembly, Grade D	.....	.....	.....	.....	.....	6	546499
Piston assembly, .010 in. oversize	.....	.....	.....	.....	.....	6	546500
Piston assembly, .020 in. oversize	.....	.....	.....	.....	.....	6	546501
Piston assembly, .030 in. oversize	.....	.....	.....	.....	.....	6	546502
Piston assembly, .040 in. oversize	.....	.....	.....	.....	.....	6	546503
Duoflex scraper ring, standard	.....	.....	.....	.....	.....	6	546507
Duoflex scraper ring, .010 in. oversize	.....	.....	.....	.....	.....	6	546508
Duoflex scraper ring, .020 in. oversize	.....	.....	.....	.....	.....	6	546509
Duoflex scraper ring, .030 in. oversize	.....	.....	.....	.....	.....	6	546510
Duoflex scraper ring, .040 in. oversize	.....	.....	.....	.....	.....	6	546511

REMARKS:

The latest type pistons, which have been introduced to improve oil consumption, should be used as replacements on all Land-Rover 6 cylinder Forward Control models. They must, of course, be fitted in engine sets when replacing the earlier type piston.

Item 207 SUBJECT:

FRONT AND REAR AXLES

MODELS:

Land-Rover Series IIA 88 Regular, 109 Long, 88 and 109 Station Wagon, Petrol and Diesel.

MODIFICATION: Introduction of front and rear differential units with improved material specification. These units are 35% stronger than the differential previously used.

PART NUMBERS:	Rear axle assembly, 4.7 ratio	....	....	....	1	540220	88
	Rear axle assembly, 4.7 ratio	....	....	....	1	540223	109
	Front axle assembly, 4.7 ratio	....	....	....	1	540218	R.H.D. 88 Standard type
	Front axle assembly, 4.7 ratio	....	....	....	1	540219	L.H.D. 88 Standard type
	Front axle assembly, 4.7 ratio	....	....	....	1	540221	R.H.D. 109 Standard type
	Front axle assembly, 4.7 ratio	....	....	....	1	540222	L.H.D. 109 Standard type
	Front axle assembly, 4.7 ratio	....	....	....	1	540588	R.H.D. 88 reinforced casing
	Front axle assembly, 4.7 ratio	....	....	....	1	540589	L.H.D. 88 reinforced casing
	Front axle assembly, 4.7 ratio	....	....	....	1	540592	R.H.D. 109 reinforced casing
	Front axle assembly, 4.7 ratio	....	....	....	1	540593	L.H.D. 109 reinforced casing
	Differential assembly, 4.7 ratio	....	....	....	2	539732	
	Crownwheel and bevel pinion	....	....	....	2	542341	
	Differential casing	....	....	....	2	522567	
	Differential wheel	....	....	....	2	533794	
	Differential pinion	....	....	....	2	533777	
	Spindle for pinion	....	....	....	2	539703	
	Thrust washer .040 in., as required	....	....	....	4	533786	} For differential wheel
	Thrust washer .045 in., as required	....	....	....	4	533787	
	Thrust washer .050 in., as required	....	....	....	4	533788	
	Bevel pinion housing, complete	....	....	....	2	539744	
	Bearing for bevel pinion, pinion end	....	....	....	2	539706	
	Shim .020 in.	....	....	....	as reqd.	539711	} For bearing adjustment, pinion end
	Shim .022 in.	....	....	....	as reqd.	539713	
	Shim .024 in.	....	....	....	as reqd.	539715	
	Shim .030 in.	....	....	....	as reqd.	539717	
	Bearing for bevel pinion, flange end	....	....	....	2	539707	
	Shim .072 in.	....	....	....	as reqd.	539718	} For bearing adjustment flange end
	Shim .074 in.	....	....	....	as reqd.	539720	
	Shim .076 in.	....	....	....	as reqd.	539722	
	Shim .081 in.	....	....	....	as reqd.	539724	
	Washer for pinion bearing	....	....	....	2	539745	

COMMENCING NUMBERS:

Axles with suffix letter 'B' onwards.

REMARKS:

The following parts can be used on earlier Land-Rover Series IIA models as applicable:

- Front axle
- Rear axle
- Differential assembly
- Crownwheel and bevel pinion
- Differential casing
- Differential wheel
- Differential pinion
- Spindle for differential pinion
- Thrust washer for differential wheels

The following are not interchangeable and both early and late types must be stocked for service replacements:

- Bevel pinion housing complete
- Bearing for bevel pinion, pinion end
- Shim for bearing adjustment, pinion end
- Bearing for bevel pinion, flange end
- Shim for bearing adjustment, flange end
- Washer for pinion bearing