



COMPANY LIMITED



Manufacturers of Motor Cars and Land-Rovers

SOLIHULL WARWICKSHIRE **ENGLAND**

SERVICE LAND-ROVER

June 1965

Item 241 SUBJECT:

RECOMMENDED LUBRICANTS (Policy item)

MODELS:

Land-Rover.

REMARKS:

Shell Super Motor Oil is officially approved as an alternative to the Shell Oils already recommended or approved by the Rover Company. Shell Super Motor

Oil covers the SAE range 10W-40.

Item 242 SUBJECT:

VERTICAL DRIVE SHAFT

MODELS:

Land-Rover basic and Forward Control models with 21 litre petrol engine.

MODIFICATION:

Introduction of a simplified distributor drive coupling with straight blade drive between distributor drive shaft and vertical drive shaft, replacing the splined

coupling previously used.

PART NUMBERS:

Vertical drive shaft gear and bush assembly

1 541181 1

Adaptor for distributor Adaptor for distributor

549610 12 volt models 554898 24 volt models

549611

Distributor drive coupling

COMMENCING NUMBERS:

Basic models: Engines from suffix letter 'G' onwards.

Forward Control models: Engines from suffix letter 'E' onwards.

REMARKS:

The parts detailed above can be used on earlier 21 litre petrol engines in complete sets only.

Item 243 SUBJECT:

INJECTION EQUIPMENT

MODELS:

Land-Rover 2 litre and 21 litre Diesel.

REMARKS:

In Land-Rover News Letter No. 20, Item 104, we detailed information concerning the identification of the injectors on the Land-Rover 2 litre and 21 litre models.

The method detailed in News Letter No. 20 is rather complicated and a much easier way to identify between 2 litre and 21 litre injectors is as follows:

- Rover Part No. 273452 suitable for 2 litre models may be identified by the letter 'D' which will be found somewhere in the main numbering system.
- (b) Rover Part No. 515552 suitable for 21 litre models may be identified by the fact that the main numbering system does not contain the letter 'D'.

It should be noted that the 2 litre and 24 litre injectors are not interchangeable.

Item 244 SUBJECT:

CLUTCH PLATE

MODELS:

Land-Rover 88 and 109 Diesel.

PART NUMBER:

Clutch plate

1 601294

REMARKS:

The new clutch plate which embodies strengthened torque reaction springs to prevent centre hub disintegration, is offered in the main to Fleet Operators who are working Land-Rover Diesel models under arduous conditions.

The known disadvantages which to some extent offset the advantages to be gained by using this plate for general replacement, are as follows:

- (a) It will cause a pronounced gearbox rattle in top gear at part throttle from 14 to 16 mph (22 to 25 kph).
- (b) It will also cause a rattle in top gear at full throttle from 15 to 17 mph (24 to 27 kph).

For these reasons it is advisable to limit the use of the new clutch plate to Land-Rover Diesel vehicles on which a clutch hub failure has occurred.

Item'245 SUBJECT:

CLUTCH ASSEMBLY, DIAPHRAGM SPRING TYPE

MODELS:

Land-Rover 24 litre Petrol and Diesel models, basic vehicles.

MODIFICATION:

Introduction of 9½ in. diameter diaphragm spring type clutch as optional equipment. Full details of this type of clutch, together with its advantages, were given in Land-Rover Service News Letter No. 32, Item 156.

PART NUMBERS:

Engles and death					
Engine and clutch assembly, ne	w	442	1	600974	
Engine and clutch assembly, ret	ouilt	-	1	600975	Petrol
Engine and clutch assembly, new	W		1	556831	1
Engine and clutch assembly, reh	uilt		1	600978	Diesel
riywheel complete assembly			- 2	600243	
Dowel for clutch			3	March March 1977 Control of the Cont	No. of the last of
Bush for primary pinion			4	502116	Petrol models only
Flywheel complete assembly	1557	2000	4	00300	
Dowels for clutch		-	1	546518	Service of the Control of the Contro
Bush for primary pinion		1775	3	502116	Diesel models only
Fitting bolt for clutch		1444	1	00000	, , , , , , , , , , , , , , , , , , ,
Clutch cover accombly			6	247166	Manual Control of the
Clutch driven plate complete	1100	7916	1	540700	
Set bolt (In LINE) Fire		-	1	539827	
Set bolt (5 in. UNF) Fixing	clutch		6	255427)	
x in long) to					Paral II
	el .		6	546197	Petrol models only
Self-locking nut (% in. UNF), fix	ding clutch	to		310177	
	1441		6	252211	D .
Clutch slave cylinder	2000	-	1	266694	Diesel models only
appoint pracket for clutch slave	cylinder		4		
Bolt (% in. UNF x 14 in. long)	Fixing		2	531363	
	clutch		*	255030	
Spring washer	slave		-	1000	
	cylinder		2	3075	
Nut (光 in. UNF)	and anch	La com		- Personani	
	allo anch	OF	2	254811	
Packing piece	plate to				
	support		1	544686	
Push rod complete for clutch slav	bracket				
Clevis for bank and (5 in. UN	ve cylinde	r	1	537601	
Clevis fork end	r)		1	254811	
Clutch operating laws and 1	1111	nie .	1	275199	
Clutch operating lever and shaft Spherical bearing	assembly		1	537603	
			1	217984	
Housing for spherical bearing		411	2	217983	
Felt ring for spherical bearing		-	2	21/703	

217985

Bolt (5 in. UNF x 3 in. long)	Fixing	2	255226
Spring washer	spherical bearing to support	2	3075
Nut (& in. UNF)	bracket	2	254811
Clevis pin fixing spring lever to fork end			216421
	clutch	1	2392
	ting shaft	1	536803
Plain washer (to	COLUMN TO THE PARTY OF THE PART	1	10882
	cting tube	1	2422

REMARKS:

The diaphragm spring type clutch is primarily intended for Fleet Users operating under arduous conditions. Where this type of clutch is required on new vehicles the following 'E' number should be quoted on the order.

E 1323—Petrol models E 1324—Diesel models

Existing vehicles may be modified by fitting the appropriate parts listed above.

Item 246 SUBJECT:

REAR AXLE WITH 'POWR-LOK' DIFFERENTIAL UNIT

MODELS:

Land-Rover 88 Regular and 109 Long.

MODIFICATION:

Introduction of rear axle assembly with 'Powr-Lok' Limited slip differential unit. Vehicles with 'Powr-Lok' differential fitted to the rear axle may be ordered through Sales under E 1315 for the 88 Regular models and E 1316 for the 109 Long models.

PART NUMBERS:

Rear axle assembly with 'Powr-Lok' differential 1 549037 88 Regular Rear axle assembly with 'Powr-Lok' differential 1 549043 109 Long Differential assembly, 'Powr-Lok' type, 4.7 ratio 1 539900

COMMENCING NUMBERS:

Rear axles numbered

Land-Rover 88 Regular models from 24200001B onwards.

Land-Rover 109 Long models from 25200001B onwards.

REMARKS:

Earlier Land-Rover Series IIA models can be modified by fitting the latest type differential unit.

The 'Powr-Lok' differential must not be fitted to the front axle.

Important Special Instructions

Special axle lubricants are required for rear axle assemblies when the 'Powr-Lok' differential unit is fitted, as follows:

Shell Limited Slip Differential Oil S 6721A Available in the Mobilube 46
Pure Oil TSS 90
Texaco 3450 Available in the North America Dollar area Mobil 46

Do not use ordinary EP oils in the rear axle of models fitted with the 'Powr-Lok' differential, as these will produce a 'squawking' noise from the friction clutches when they are in operation on turns.

Information concerning the availability of these special oils in other markets will be advised in due course.

A Workshop procedure leaflet covering the 'Powr-Lok' differential can be obtained from The Rover Co. Ltd, Technical Service Department, Solihull, Warwickshire, England under Part No. 4737. English version only available.

PRIVATE LOCKS Item 247 SUBJECT:

> Land-Rover. MODELS:

Distributors and Dealers are advised that the key number for Land-Rover models fitted with private locks will be found stamped on the plate adjacent to the bonnet lock as shown in the illustration. REMARKS:

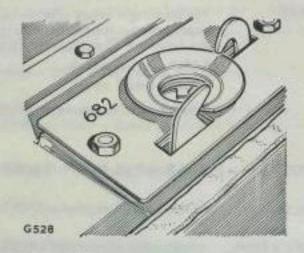


Fig. 1. Position of key number for private lock