

# Land Rover Series IIA 1961-1971 Workshop Manual



Fig. A-13—Assembly of connecting rod and piston

## Cylinder bores and walls, to refit

### Operation A.196

1. Remove the sealing ring grooves in the crankcase end of cylinder block bores, and the lower sealing rings, with Shimor M54 Compound, then fit a ring in the upper and lower grooves of each bore.

A small hole is drilled through the block into the middle groove to provide evidence of instant leakage past the ring.



Fig. A-15—Checking cylinder bore extension

2. Press the bores into their respective bores in head and align the marks made while disassembling.
3. Clamp each bore in turn in the manner described and tighten the securing bolts to 95 lbf-ft (12.8 N·m) torque. Mount a dial test indicator and check that the outer edge of the cylinder bore is from .002 to .004 in. (0.050 to 0.10 mm) above the cylinder head joint face. See Fig. A-16. Adjust if necessary by increasing bore and adding a suitable shim washer under the flange. Clamp and re-check bore as described above. Shim washers are available .002 in. (0.05 mm) and .004 in. (0.10 mm) thick.

## Pistons and rings, to refit Operation A.198

1. When fitting pistons, the clearance in bore hole should be as recommended with the dimensions laid down in the Data Section. In the absence of exactly accurate measuring instruments, a long feeler, .004 in. (0.10 mm) wide thick, may be inserted in the lower side of the bore hole, as illustrated in Fig. A-17, and the piston moved across diameter and the feeler pin in line with the centre line of cylinder block. The piston should become a tight fit when the feeler is about across the bore.
2. Check the piston ring gaps in the lower bores, using an old piston as illustrated in Fig. A-14, to keep the rings square in the bore.



Fig. A-14—Checking piston rings

A—Piston gauge B—Piston C—Lower bores

3. The second and third compression rings are fitted edge and must be fitted with the side marked "T" uppermost; the top chrome-plated compression and the oil scraper ring has a square friction edge and may be fitted either way. Fit the piston rings and check the clearance in ring grooves. See Data Section.

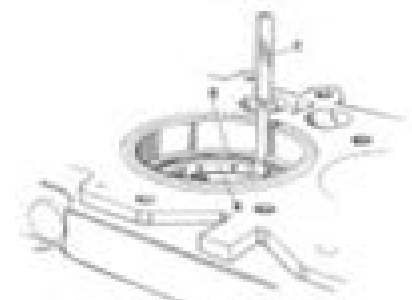


Fig. A-16—Checking piston ring and flange joint

A—Flange joint B—Piston ring C—Piston gauge

It will be seen that provision is made for the fitting of two oil scraper rings. The second groove is for service purposes only.

## Connecting rod checks Operation A.200

1. Check that the connecting rods and caps have not been filed, in the following manner.
2. Select the correct cap for each connecting rod, as dictated by the number stamped near the joint faces. This number also indicates the washers to which it must be fitted.

Assemble the connecting rods, low dust bearings, with corresponding washers together.

# Land Rover Series 1 Service Repair Workshop Manual

**JR Anderson**



## **Land Rover Series 1 Service Repair Workshop Manual:**

*Tuning and Modifying the Rover V8 Engine* Daniel R Lloyd, Nathan J Lloyd, 2019-09-27 This is the ultimate book for any enthusiast or professional who is tuning or modifying the Rover V8 engine This essential read covers all aspects of tuning this versatile and much loved engine with an emphasis on selecting the correct combination of parts for your vehicle and its intended use Topics cover the short engine cylinder head modifications and aftermarket cylinder heads camshaft and valve train intake and exhaust systems cooling system carburettors and fuel injection distributor and distributor less ignition systems engine management LPG conversions and finally supercharging and turbo charging Land Rover Service and Repair Manual John Harold Haynes, Marcus Daniels, 1995 Series II IIA III inc County with 88 109 inch wheelbase Does NOT cover 24V electrical systems or forward control models Petrol 2 1 4 litre 2286cc 4 cyl Does NOT cover 6 cyl or V8 engines

**Land Rover Discovery Maintenance and Upgrades Manual, Series 1 and 2** Ralph Hosier, 2014-10-31 Based on real life experiences and written by expert authors the books in the Maintenance and Upgrades series from Crowood will help owners develop the workshop skills needed for the maintenance and repair of their cars and give guidance on possibilities for improvements and upgrades to performance With step by step instructions and safety information throughout this book is a valuable technical resource for owners of the Land Rover Discovery Series 1 and 2 Illustrated with over 300 photographs the book covers sourcing parts and tools common problems and solutions covering all engine types including Rover V8 and diesel engines service and repair improvements for wheels and tyres and detailed specifications This valuable technical guide for owners of the Land Rover Discovery Series 1 and 2 will be of particular interest to home and professional mechanics and Land Rover enthusiasts specialists and owners clubs Illustrated with over 300 colour photographs **Land Rover** Brooklands Books, 2008-05 The information in this book has been specially selected for the practical owner who enjoys carrying out basic maintenance and repairs Information is taken from Land Rovers library including workshop manuals SJR900 ENWN LRL0079ENG parts catalogue RTC9947CF Handbook SJR 820 ENHB 90 Subject Guide to Books in Print, 2001 **American Book Publishing Record**, 1979 **Forthcoming Books** Rose Army, 2001 *Books in Print Supplement*, 1978 Whitaker's Books in Print, 1998 **Land Rover 1948-58 Series I Workshop Manual for Petro and Diesel Models** British Leyland Motors, 1960-12 This Workshop Manual is designed to assist those responsible for the maintenance and overhaul of the Land Rover The British National Bibliography Arthur James Wells, 1972

**Proceedings** Institution of Mechanical Engineers (Great Britain), 1951 *Subject Index of Modern Books Acquired* British Library, 1961 **Journal** Institution of Mechanical Engineers (Great Britain), 1951 *Popular Mechanics*, 1979-12 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Popular Science, 1977-12 Popular Science gives our readers

the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Land Rover Series 2, 2A and 3 1958-85 Owner's Workshop Manual John Harold Haynes,1995      **Popular Science**,1978-02 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker Publishing,1996-09      **Land Rover Discovery Service and Repair Manual** Steve Rendle,Mark Coombs,Robert Jex,2000 Models include Commercial special limited editions Does NOT cover revised range introduced December 1998 Petrol 3 5 litre 3528cc 3 9 litre 3947cc V8 Does NOT cover 2 0 litre Mpi petrol engine Turbo Diesel 2 5 litre 2495cc 4 cyl Tdi

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