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Haynes Granada

Haynes Repair Manual for Ford Granada Petrol (Sept 1977 - Feb 1985)

Official Service and Repair Instructions

[Introduction](#) [Safety Precautions](#) [Routine Maintenance](#) [Engine](#) [Vehicle Systems](#)
[Troubleshooting](#) [Specifications](#)

1. INTRODUCTION TO YOUR HAYNES MANUAL

This Haynes Service and Repair Manual provides comprehensive instructions for the Ford Granada Saloon and Estate models, specifically those manufactured between September 1977 and February 1985, covering vehicles up to 'B' registration. It details procedures for petrol engines, including the 2.0 litre (1993cc) 4-cylinder, and the 2.3 litre (2293cc) and 2.8 litre (2792cc) V6 engines.

The manual is designed to assist both the novice and experienced mechanic in performing maintenance, service, and repair tasks. All instructions are based on a complete stripdown and rebuild of the vehicle, ensuring accuracy and practicality for DIY enthusiasts.

FORD GRANADA



Sept 1977 to Feb 1985 (up to B registration) Petrol

Haynes Service and Repair Manual



Includes **Fault Finding** and **MOT Test Check** Sections

Figure 1.1: Front cover of the Haynes Repair Manual for Ford Granada Petrol models. This image displays a red Ford Granada car with a cutaway view revealing its engine and chassis components, indicating the detailed nature of the manual's content. The cover also specifies the covered years (Sept 1977 to Feb 1985) and engine types (Petrol).



Keep your Ford Granada in perfect running order and maintain its value. Haynes shows you how and saves you money.

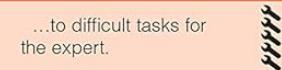
Step-by-step instructions clearly linked to hundreds of photos and illustrations show you how to do each job.

Spanner ratings grade all tasks by difficulty and experience level.

From easy servicing jobs
for the novice...



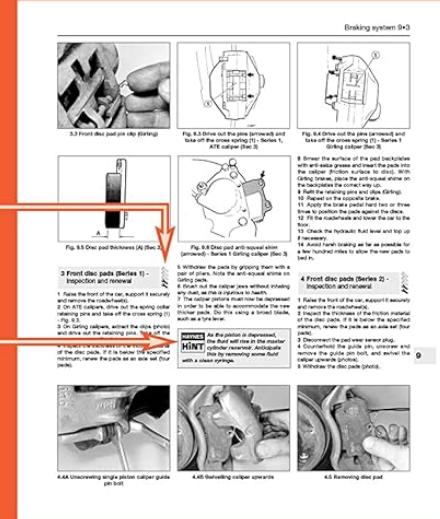
...to difficult tasks for
the expert.



Haynes Hints give valuable tips and short-cuts that help make the job easier.

Tool Tips contain useful information such as ways of removing parts without using special tools.

This Haynes Manual was written from hands-on experience, based on the stripdown and rebuild of a Ford Granada using commonly-available tools.



Inside this Manual

- **Service your car** – complete step-by-step guide
- **Fault finding** – pinpoint specific problems easily
- **Pass the MOT** – step-by-step test checks
- **Filters and fluids** – checking and renewal
- **Braking system** – safety checks and repairs

- **Fuel and ignition systems** – explained
- **Electrical system** – fault finding and repairs
- **Engine** – tune-up, minor and major repairs
- **Wiring diagrams** – easy-to-follow layout
- **Fully indexed** – find information quickly

ISBN 1 85960 084 0



9 781859 600849

Models covered by this Manual

Ford Granada 2.0, 2.3 & 2.8 Saloon & Estate models with petrol engines, including special/limited editions
2.0 litre (1993cc), 2.3 litre (2293cc) & 2.8 litre (2792cc) petrol

For information on Diesel engines, see book no. 1606

Haynes Publishing, Sparkford, Yeovil, Somerset BA22 7JJ England

www.haynes.co.uk

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UPC CODE



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Figure 1.2: Back cover of the Haynes Repair Manual. This image illustrates the key features of the manual, including step-by-step instructions, a 'spanner rating' system for task difficulty, helpful 'Haynes Hints', and 'Tool Tips'. It also lists the main sections covered, such as Service, Fault Finding, MOT Test Checks, Filters and Fluids, Braking System, Fuel and Ignition Systems, Electrical System, Engine, Wiring Diagrams, and a Fully Indexed section.



WE'VE BEEN HELPING VEHICLE OWNERS TO **DO IT YOURSELF** FOR OVER 60 YEARS

Never used a Haynes manual? This is what we do...

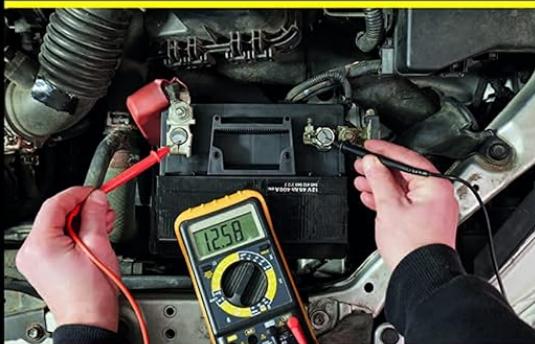


Every manual is based upon a stripdown and rebuild

- See your vehicle as never before, and learn from 700+ pictures and diagrams
- Take on bigger jobs with confidence – we can show you exactly what to do

We only show DIY friendly techniques

- Instructions everybody can follow (novices welcome!)
- Using tools and equipment you have at home



We save you time working out what is wrong!

- Every Haynes manual includes a Fault Finder with 400+ issues covered
- Avoid “dead-ends” when you follow our step-by-step guidance

Figure 1.3: An informational graphic detailing the benefits of using a Haynes manual. It emphasizes that each manual is based on a complete vehicle stripdown and rebuild, provides DIY-friendly techniques suitable for all skill levels, and includes a Fault Finder section to help diagnose issues efficiently.

Contents

LIVING WITH YOUR FORD GRANADA

Introduction	Page 0•4
Acknowledgements	Page 0•4
Safety First!	Page 0•5
Conversion factors	Page 0•6
 MOT Test Checks	
Checks carried out from the driver's seat	Page 0•7
Checks carried out with the vehicle on the ground	Page 0•8
Checks carried out with the vehicle raised	Page 0•9
Checks carried out on your vehicle's exhaust emission system	Page 0•10

MAINTENANCE

Routine maintenance	
General dimensions, weights and capacities	Page 0•11
Jacking and towing	Page 0•12
Buying spare parts and vehicle identification numbers	Page 0•12
Routine maintenance (also see Chapter 13)	Page 0•13
Recommended lubricants and fluids	Page 0•14

Contents

REPAIRS & OVERHAUL

Engine and Associated Systems	
Engine (also see Chapter 13)	Chapter 1
Cooling system (also see Chapter 13)	Chapter 2
Fuel and exhaust systems (also see Chapter 13)	Chapter 3
Ignition system (also see Chapter 13)	Chapter 4
 Transmission	
Clutch (also see Chapter 13)	Chapter 5
Manual and automatic transmission (also see Chapter 13)	Chapter 6
Propeller shaft (also see Chapter 13)	Chapter 7
Rear axle (also see Chapter 13)	Chapter 8
 Brakes	
Braking system (also see Chapter 13)	Chapter 9
 Electrical	
Electrical system (also see Chapter 13)	Chapter 10
 Suspension and steering	
Suspension and steering (also see Chapter 13)	Chapter 11
 Body Equipment	
Bodywork and fittings (also see Chapter 13)	Chapter 12
 Additional information	
Supplement: Revisions and information on later models	Chapter 13
 Wiring diagrams	
Refer to	Page WD•1
 Reference	
Fault finding	Page REF•1
Tools and working facilities	Page REF•3
General repair procedures	Page REF•5
 Index	
Refer to	Page IND•1

Figure 1.4: The Contents page of the Haynes Repair Manual. This image provides an overview of the manual's structure, listing main sections such as 'Living with your Ford Granada', 'MOT Test Checks', 'Routine Maintenance', 'Repairs & Overhaul' (covering Engine, Transmission, Brakes, Electrical, Suspension, Body Equipment), 'Additional Information', 'Wiring Diagrams', and 'Reference'.

2. SAFETY PRECAUTIONS

Always prioritize safety when working on your vehicle. Before beginning any procedure, ensure the vehicle is securely supported on level ground. Disconnect the battery's negative terminal to prevent accidental electrical discharge, especially when working on electrical systems.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure adequate ventilation when working with chemicals, fuels, or exhaust fumes.
- Allow hot engine components to cool before handling.
- Use the correct tools for each task to prevent damage to components or injury.
- Refer to the manual's specific warnings and cautions throughout each section.

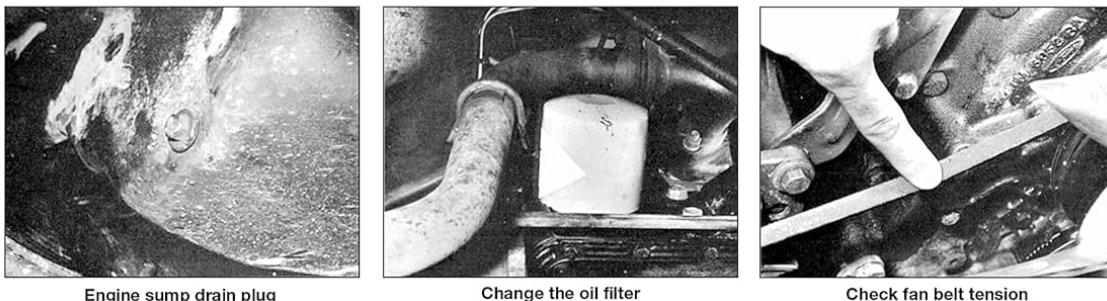
3. ROUTINE MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your Ford Granada. This section outlines essential routine checks and service procedures.

3.1. Engine Oil and Filter Change

Regularly changing the engine oil and filter is vital for engine health. Refer to the recommended service intervals in your vehicle's owner's handbook or the manual's maintenance schedule.

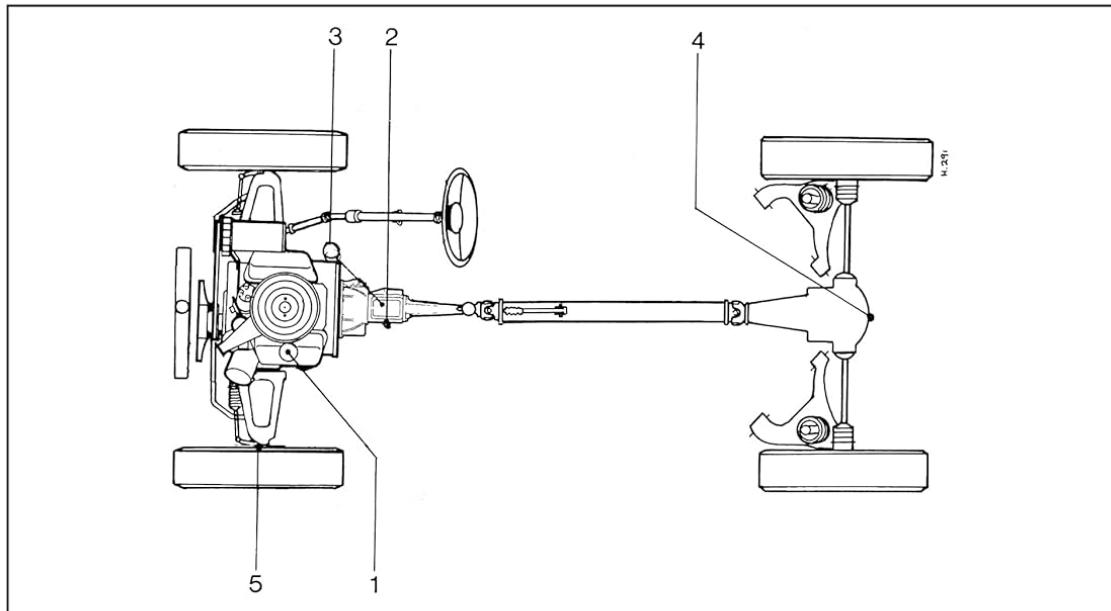
Routine Maintenance



Engine sump drain plug

Change the oil filter

Check fan belt tension



Recommended lubricants and fluids

Component or system

- 1 Engine
- 2 Manual gearbox*
- 3 Automatic transmission
 - Early models (black dipstick)
 - Later models (red dipstick)
- 4 Rear axle
- 5 Front wheel hub bearings

Brake fluid reservoir

Power steering

Up to 1981

1982 on

Cooling system

*Note: See Supplement for alternative lubricant for N type transmission

Lubricant type/specification

- Multigrade engine oil, viscosity range SAE 10W/30 to 10W/50, to API SF/CC or SF/CD
- Gear oil, viscosity SAE 80EP, to Ford spec SQM-2C-9008-A
- ATF to Ford spec SQM-2C-9007-AA
- ATF to Ford spec SQM-2C-9010-A
- Gear oil, viscosity SAE 90EP, to API GL5
- Multi-purpose lithium based grease to NLGI-2
- Hydraulic fluid to Ford spec SAM-6C9103-A
- ATF to Ford spec SQM-2C-9007-AA
- ATF to Ford spec SQM-2C-9010-A
- Antifreeze to Ford spec SSM-97B9103-A

Figure 3.1: Examples of routine maintenance tasks. This image displays visual guides for draining the engine sump plug, changing the oil filter, and checking the fan belt tension. It also includes a diagram illustrating the vehicle's drivetrain components and a table listing recommended lubricants and fluids for various systems.

3.2. Recommended Lubricants and Fluids

Using the correct type and grade of lubricants and fluids is essential for optimal performance and to prevent damage. Consult the table below for specific recommendations.

Table 3.1: Recommended Lubricants and Fluids

Component or System	Lubricant/Specification
---------------------	-------------------------

Component or System	Lubricant/Specification
Engine	Multigrade engine oil, viscosity range SAE 10W/30 to 10W/50, to API SF/CC or SF/CD
Manual gearbox*	Gear oil, viscosity SAE 80EP, to Ford spec SQM-2C-9008-A
Automatic transmission	ATF to Ford spec SQM-2C-9007-AA (Early models, red dipstick)
Automatic transmission	ATF to Ford spec SQM-2C-9010-A (Later models, black dipstick)
Rear axle	Gear oil, viscosity SAE 90EP, to API GL5
Front wheel hub bearings	Multi-purpose lithium based grease to NLGI-2
Brake fluid reservoir	Hydraulic fluid to Ford spec SAM-6C9103-A
Power steering (Up to 1981)	ATF to Ford spec SQM-2C-9007-AA
Power steering (1982 onwards)	ATF to Ford spec SQM-2C-9010-A
Cooling system	Antifreeze to Ford spec SSM-97B9103-A

*Note: See Supplement for alternative lubricant for N type transmission.

4. ENGINE AND ASSOCIATED SYSTEMS

This section covers detailed procedures for the engine, including removal, overhaul, and reinstallation. It provides step-by-step guidance for various engine components.

4.1. Engine Assembly and Component Checks

Accurate assembly and checking of engine components are critical for proper engine function. This includes fitting washers, positioning main bearing caps, checking crankshaft endfloat, and piston ring installation.

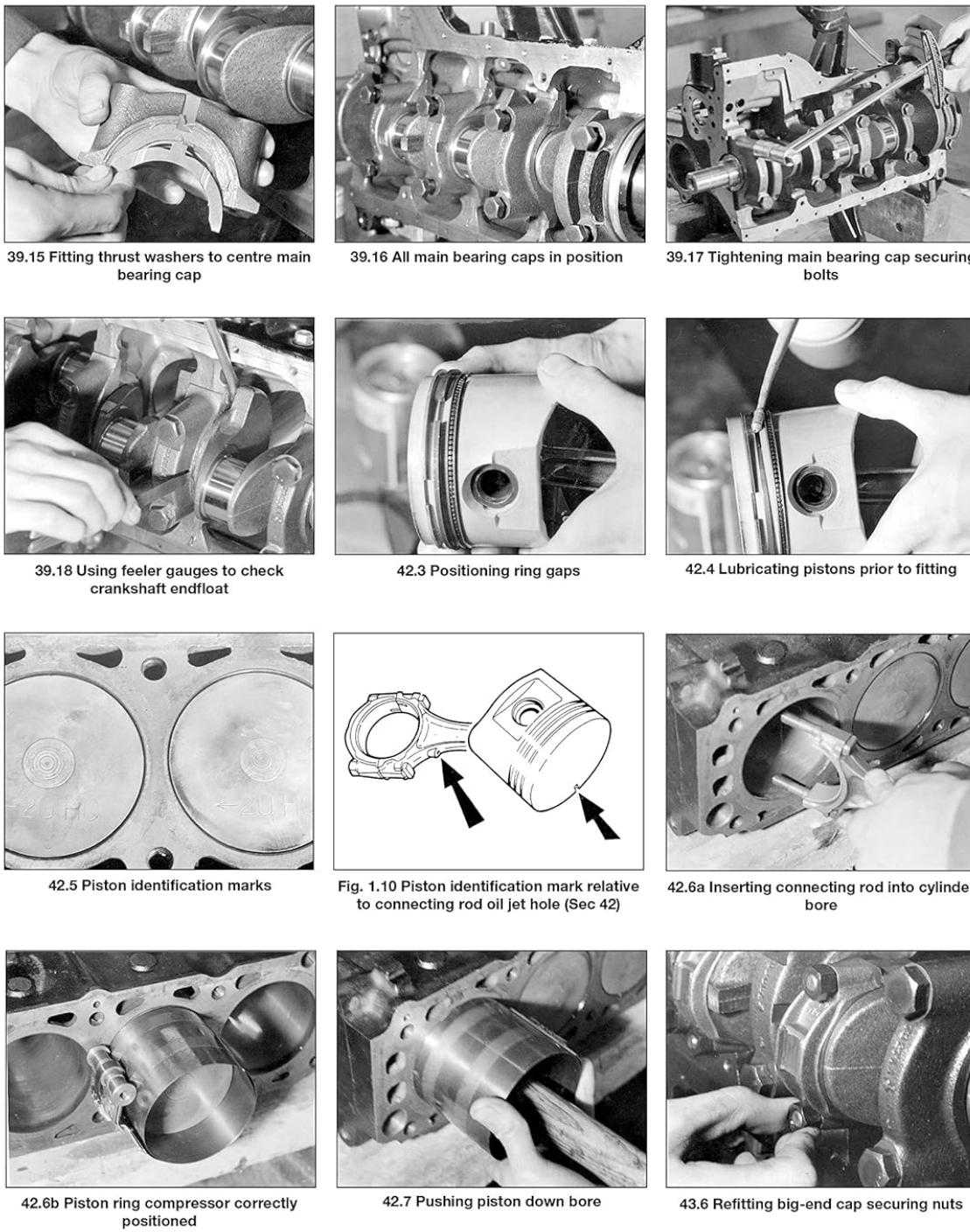


Figure 4.1: Detailed views of engine assembly procedures. This image shows various steps such as fitting thrust washers to the main bearing cap, positioning main bearing caps, tightening securing bolts, using feeler gauges to check crankshaft endfloat, positioning piston rings, lubricating pistons, and identifying piston marks.

4.2. Engine Component Specifications

Precise measurements and clearances are essential for engine rebuilds. Refer to the following specifications for camshaft, pistons, gudgeon pins, connecting rods, cylinder head, and valves.

Camshaft (cont.)	
Journal diameter - in (mm):	
Front	1.6531 to 1.6539 (41.99 to 42.01)
Centre	1.7562 to 1.7570 (44.61 to 44.63)
Rear	1.7712 to 1.7720 (44.99 to 45.01)
Bearing inner diameter - in (mm):	
Front	1.6549 to 1.6557 (42.035 to 42.055)
Centre	1.7580 to 1.7588 (44.655 to 44.675)
Rear	1.7730 to 1.7738 (45.035 to 45.055)
Endfloat - in (mm)	0.004 to 0.008 (0.104 to 0.204)
Colour code	Yellow
Auxiliary shaft	
Endfloat - in (mm)	0.0021 to 0.0080 (0.054 to 0.204)
Pistons	
Piston diameter:	
Standard grade:	
1 - in (mm)	3.5734 to 3.5738 (90.765 to 90.775)
2 - in (mm)	3.5738 to 3.5742 (90.775 to 90.785)
3 - in (mm)	3.5742 to 3.5746 (90.785 to 90.795)
4 - in (mm)	3.5746 to 3.5750 (90.795 to 90.805)
Oversize supplied in service:	
0.5 - in (mm)	3.5937 to 3.5947 (91.280 to 91.305)
1.0 - in (mm)	3.6134 to 3.6144 (91.780 to 91.805)
Piston clearance in cylinder bore - in (mm)	0.001 to 0.0024 (0.025 to 0.060)
Ring gap (in situ):	
Top - in (mm)	0.015 to 0.023 (0.38 to 0.58)
Centre - in (mm)	0.015 to 0.023 (0.38 to 0.58)
Bottom - in (mm)	0.0157 to 0.055 (0.4 to 1.4)
Gudgeon pins	
Length - in (mm)	2.83 to 2.87 (72.0 to 72.8)
Diameter:	
Red - in (mm)	0.94465 to 0.94476 (23.994 to 23.997)
Blue - in (mm)	0.94476 to 0.94488 (23.997 to 24.000)
Yellow - in (mm)	0.94488 to 0.94500 (24.000 to 24.003)
Clearance in piston - in (mm)	0.0003 to 0.0006 (0.008 to 0.014)
Interference in connecting rod - in (mm)	0.0007 to 0.0015 (0.018 to 0.039)
Connecting rods	
Bore diameters - in (mm):	
Big-end	2.165 to 2.166 (55.00 to 55.02)
Small-end	0.9434 to 0.9439 (23.964 to 23.976)
Bearing inside diameter (fitted) - in (mm):	
Standard	2.0474 to 2.0489 (52.006 to 52.044)
Undersize:	
0.25 mm	2.0376 to 2.0391 (51.756 to 51.794)
0.50 mm	2.0277 to 2.0292 (51.506 to 51.544)
0.75 mm	2.0179 to 2.0194 (51.256 to 51.294)
1.00 mm	2.0081 to 2.0096 (51.006 to 51.044)
Big-end bearing to journal clearance - in (mm)	0.0002 to 0.0023 (0.006 to 0.060)
Cylinder head	
Cast identification number	0 (early models), 20 (later models)
Valve seat angle	44° 30' to 45°
Valve guide inside diameter, inlet and exhaust:	
Standard - in (mm)	0.3174 to 0.3184 (8.063 to 8.088)
Oversize:	
0.2 - in (mm)	0.3253 to 0.3263 (8.263 to 8.288)
0.4 - in (mm)	0.3332 to 0.3342 (8.463 to 8.488)
Parent bore for camshaft bearing liners:	
Front - in (mm)	1.6557 to 1.6549 (42.055 to 42.035)
Centre - in (mm)	1.7589 to 1.7580 (44.675 to 44.655)
Rear - in (mm)	1.7738 to 1.7730 (45.055 to 45.035)
Valves	
Valve clearances (cold):	
Inlet - in (mm)	0.008 (0.20)
Exhaust - in (mm)	0.010 (0.25)
Valve timing:	
Inlet valve opens	24° BTDC
Inlet valve closes	64° ABDC
Exhaust valve opens	70° BBDC
Exhaust valve closes	18° ATDC

Figure 4.2: A comprehensive table detailing engine component specifications. This includes critical dimensions and clearances for components such as camshaft journals, pistons, gudgeon pins, connecting rods, cylinder head, and valves, providing essential data for engine overhaul and repair.

4.3. Tightening Sequences and Assembly

Correct tightening sequences and assembly procedures are vital to prevent warping and ensure proper sealing of engine components.

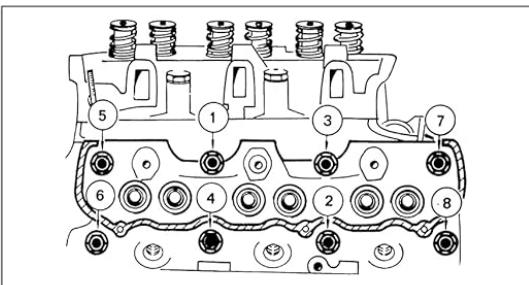


Fig. 1.28 Tightening sequence for cylinder head bolts (Sec 93)

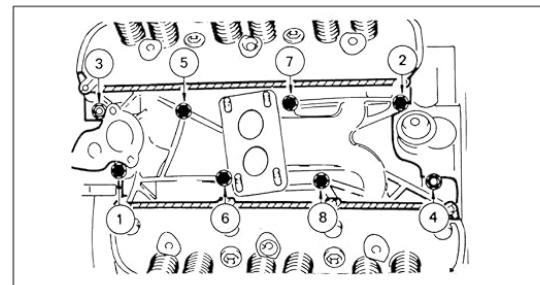


Fig. 1.29 Tightening sequence for inlet manifold bolts (Sec 93)

assemblies. Guide the rocker arm adjusting screws into the pushrod sockets (photos).

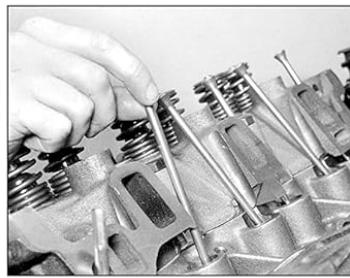
8 Tighten the rocker shaft securing bolts progressively to the specified torque.

9 Coat the gasket mating face outer edge of the cylinder heads and inlet manifold with sealing compound.

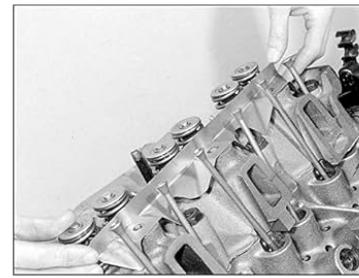
10 Place a new inlet manifold gasket in position and fit the inlet manifold (photos).

11 Insert the inlet manifold securing bolts and tighten them in the sequence shown in Fig. 1.29. Tighten them to the specified torque in four stages, refer to Specifications (carburettor engine models).

12 Adjust the valve clearances as described in Section 94.



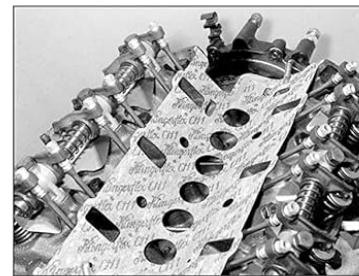
93.6 Insert the pushrods in the cylinder block



93.7a Fit the oil splash shields in position . .



93.7b . . and then fit the rocker shaft assemblies



93.10a Place a new inlet manifold gasket in position . .

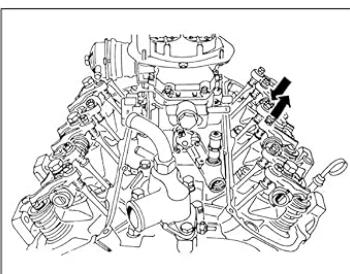
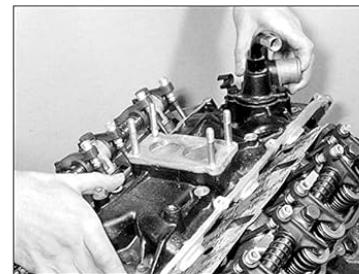


Fig. 1.30 No 5 cylinder valves rocking (Sec 94)



93.10b . . and then fit the inlet manifold

Figure 4.3: Illustrations of engine assembly procedures. This image includes diagrams for the correct tightening sequences of cylinder head bolts and inlet manifold bolts. It also shows steps for inserting pushrods into the cylinder block, fitting oil splash shields, placing new inlet manifold gaskets, and assembling rocker shaft components.

5. VEHICLE SYSTEMS OVERVIEW

This manual provides detailed information on various vehicle systems, enabling comprehensive repair and maintenance.

5.1. Transmission

Covers both manual and automatic transmission systems, including removal, inspection, repair, and reinstallation procedures. This section also addresses propeller shaft and rear axle maintenance.

5.2. Brakes

Detailed instructions for the braking system, including component inspection, replacement of pads and shoes, fluid bleeding, and overall system maintenance to ensure safe operation.

5.3. Electrical System

Provides guidance on diagnosing and repairing electrical faults, including wiring diagrams, component testing, and general electrical system maintenance.

5.4. Suspension and Steering

Covers the front and rear suspension components, steering gear, and associated linkages. Includes procedures for inspection, repair, and adjustment to maintain vehicle handling and ride quality.

5.5. Body Equipment

Addresses the maintenance and repair of bodywork and fittings, including interior and exterior components, to preserve the vehicle's structural integrity and appearance.

6. FAULT FINDING AND TROUBLESHOOTING

This manual includes a dedicated fault-finding section to help diagnose common problems. It provides systematic approaches to identify the root cause of issues, saving time and effort.

6.1. MOT Test Checks

A specific section is included to guide users through checks required for the Ministry of Transport (MOT) test, helping to ensure the vehicle meets legal safety and environmental standards.

- Checks carried out from the driver's seat.
- Checks carried out with the vehicle on the ground.
- Checks carried out with the vehicle raised.
- Checks carried out on your vehicle's exhaust emission system.

7. PRODUCT SPECIFICATIONS

This section provides general information and specifications related to the Haynes Repair Manual itself.

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The manual covers Ford Granada models with petrol engines, including special/limited editions, 2.0 litre (1993cc), 2.3 litre (2293cc), and 2.8 litre (2792cc) V6 engines. For information on Diesel engines, refer to book no. 1606.

8. SUPPORT AND ADDITIONAL RESOURCES

For further assistance or inquiries regarding this manual, please contact the publisher, Haynes. Additional resources, including supplements for later models and wiring diagrams, are also available.

Publisher: J H Haynes & Co Ltd

Website: haynes.com (Example link, actual link not provided in data)

Always refer to the latest edition of the manual and any official service bulletins for the most up-to-date information.

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