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Toyota Yaris 1999-2005 Petrol

Toyota Yaris Owners Workshop Manual

1999 to 2005 (T to 05 registration) Petrol Models

Haynes Service and Repair Manual

1. Introduction to Your Manual

This comprehensive Haynes Service and Repair Manual provides detailed, step-by-step instructions for the maintenance, servicing, and repair of Toyota Yaris models manufactured between 1999 and 2005, specifically those equipped with petrol engines. The manual is designed to assist both novice and experienced mechanics in performing various tasks, from routine checks to complete engine overhauls.

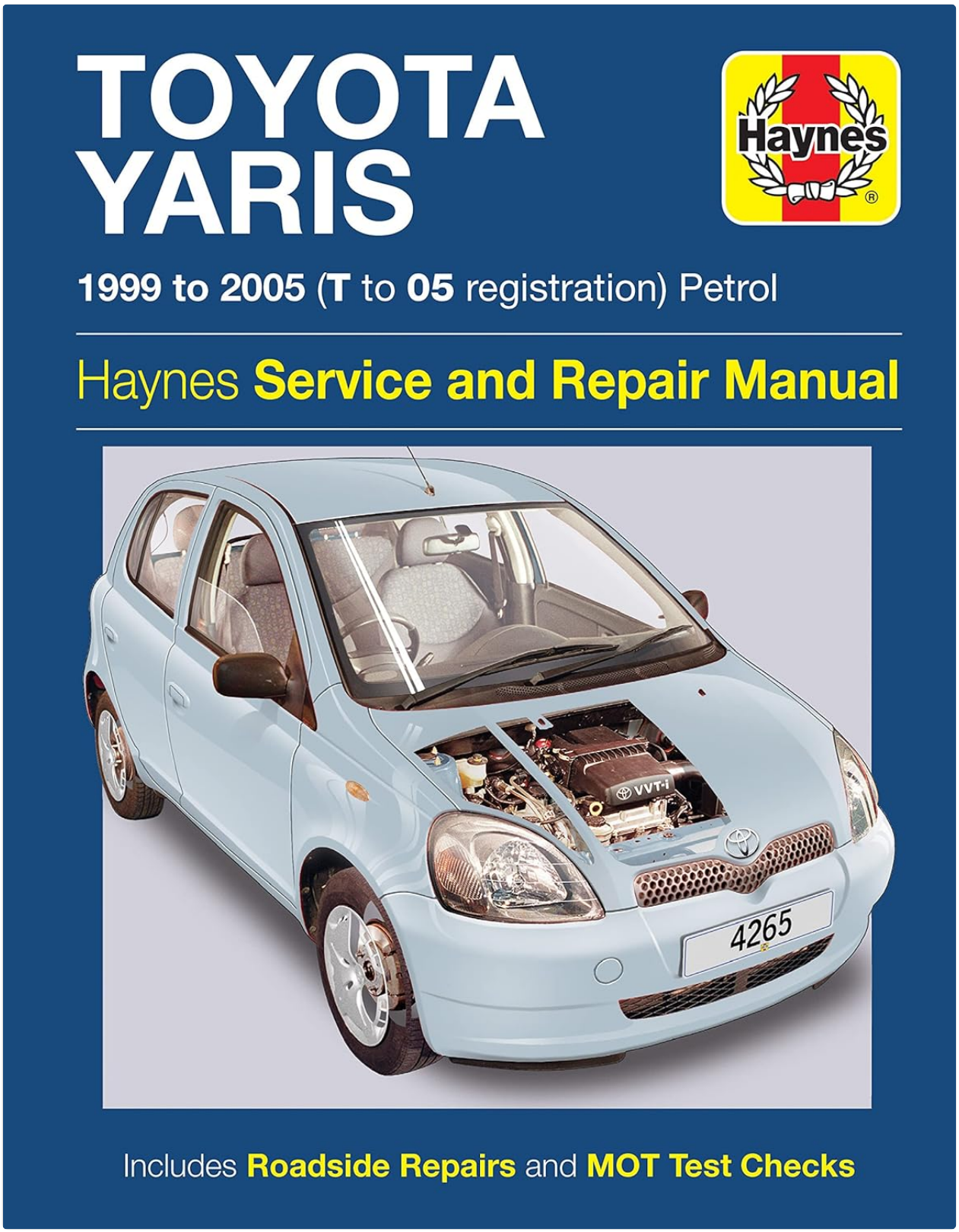


Image 1.1: Front cover of the Toyota Yaris Haynes Service and Repair Manual, indicating coverage for 1999-2005 petrol models.

1.1. About This Manual

Every Haynes manual is based on a complete strip-down and rebuild of the vehicle in our own workshop. This hands-on approach ensures that all procedures are thoroughly tested and clearly explained. The manual includes:

- Step-by-step guides to maintenance and repair.
- Hundreds of photographs and illustrations for visual guidance.
- Spanner ratings to indicate job difficulty.

- Helpful tips and shortcuts from experienced mechanics.
- Tool tips for using common tools and avoiding special equipment.

Image 1.2: An example page detailing the features found within the manual, including spanner ratings for job difficulty.

Image 1.3: A page illustrating the manual's focus on DIY-friendly techniques, using common tools and clear instructions.

2. Safety Precautions

Always prioritize safety when working on your vehicle. Before beginning any procedure, ensure you have read and understood all relevant safety warnings and instructions. Wear appropriate personal protective equipment (PPE) such as gloves and eye protection. Disconnect the battery when working on electrical systems, and ensure the vehicle is securely supported on jack stands before working underneath it. Refer to the 'Safety First!' section within the manual for comprehensive safety guidelines.

3. Routine Checks and Roadside Assistance

Regular checks and knowing how to handle common roadside issues are crucial for maintaining your Toyota Yaris. This section covers essential procedures to keep your vehicle in optimal condition and address minor problems.

3.1. Roadside Repairs

- Jump starting
- Wheel changing
- Identifying leaks
- Towing

3.2. Weekly Checks

- Underbonnet check points
- Engine oil level
- Coolant level
- Brake and clutch fluid level
- Screen washer fluid level
- Power steering fluid level
- Wiper blades
- Tyre condition and pressure
- Battery
- Electrical systems

3.3. Lubricants and Fluids

Information on recommended lubricants and fluid types for various vehicle systems.

3.4. Tyre Pressures

Guidelines for correct tyre pressures to ensure safety and optimal vehicle performance.

4. Scheduled Maintenance

Adhering to the manufacturer's recommended maintenance schedule is vital for the longevity and reliability of your Toyota Yaris. This section details routine servicing tasks and procedures.

4.1. Routine Maintenance and Servicing

This subsection outlines the periodic maintenance tasks required for your vehicle, including oil changes, filter replacements, and general inspections.

1•2 Servicing specifications

Lubricants and fluids ..... Refer to *Weekly checks*

Capacities

Engine oil (including oil filter)
All models ..... 3.2 litres

Cooling system (approximate)
All models ..... 4.7 litres

Manual transmission
1.0 litre engine models ..... 1.4 litres
1.3 litre engine models ..... 1.9 litres

Automatic transmission
From dry ..... 5.5 litres
Drain and refill ..... 2.1 litres

Fuel tank
All models ..... 45.0 litres

Cooling system

Antifreeze mixture:
50% antifreeze ..... Protection down to -37°C
Note: *Refer to antifreeze manufacturer for latest recommendations.*

Auxiliary drivebelt

Deflection (tension check):
Models with manual steering*:
New belt ..... 4.5 to 5.5 mm
Used belt ..... 6.0 to 6.5 mm
Models with electric power steering*:
New belt ..... 4.5 to 5.5 mm
Used belt ..... 6.0 to 6.5 mm
Models with hydraulic power steering*:
New belt ..... 8.5 to 10.5 mm
Used belt ..... 11.5 to 12.5 mm
***Note**: Models with hydraulic power steering will have a fluid reservoir – refer to 'Weekly checks'.*

Ignition system

Spark plugs:
1.0 litre engine models:
Up to June 2001: **Gap***
NGK BKR5EYA or Denso K16R-U ..... 0.8 mm
July 2001 onwards:
Bosch FR7KCU ..... 0.9 to 1.0 mm
Denso K20R-U11 ..... 1.0 to 1.1 mm
1.3 litre 2SZ-FE engine models:
Denso K16R-U ..... 0.8 mm
1.3 litre 2NZ-FE engine models:
NGK BKR5EYA11 or Denso K16R-U11 ..... 1.1 mm
** The spark plug gap quoted is that recommended by Toyota for their specified plugs listed above. If spark plugs of any other type are to be fitted, refer to their manufacturer's recommendations.*
Note: *Refer to Chapter 2A for engine code information.*

Brakes

Friction material minimum thickness:
Front brake pads ..... 1.0 mm
Rear brake shoes ..... 1.0 mm

Tyre pressures

See end of *Weekly checks* on page 0•18

Image 4.1: An example page detailing procedures for the 20,000-mile service interval, including fluid changes and inspections.

4.2. Maintenance Procedures

Detailed, step-by-step instructions for performing various maintenance tasks, ensuring correct execution and optimal results.

5. Repair Procedures

This section provides comprehensive repair instructions for major vehicle systems, guiding you through complex tasks with clear explanations and illustrations.

5.1. Engine and Associated Systems

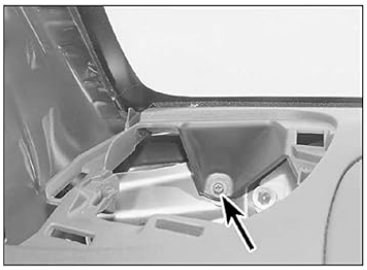
- Engine in-car repair procedures
- Engine removal and overhaul procedures
- Cooling, heating and air conditioning systems
- Fuel system
- Emission control and exhaust systems
- Starting and charging systems
- Ignition system

5.2. Transmission

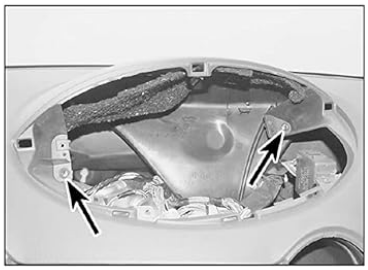
- Clutch
- Manual transmission
- Automatic transmission
- Driveshafts

5.3. Brakes and Suspension

- Braking system
- Suspension and steering



26.9a The facia upper section has a screw at each end . . .



26.9b . . . and two in the instrument panel aperture

26.10 Push the facia upper section upwards to release the clips

holes, and two in the instrument panel aperture **(see illustrations)**. Remove the screws, noting their locations.

10 The upper section of the facia panel may now be removed, by pushing it upwards from below to release the clips fitted all along its front and rear edges. Remove the panel from the car **(see illustration)**.

Lower section

11 To remove the lower section of the facia, start by removing the ashtray.

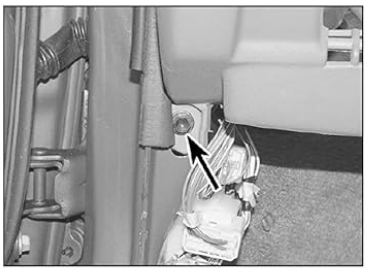
12 If not already done, remove the rear section of the heater control panel, as described in Chapter 3.

13 Remove the radio main unit as described in Chapter 12.

14 Pull the bonnet release lever, and unhook the cable end fitting from it as described in Section 8.

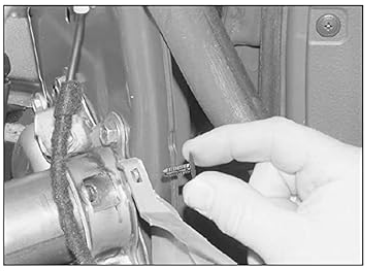
15 The lower section of the facia panel is secured by two nuts and a central bolt on top, a bolt either end on the bottom, and a central screw below the radio aperture. A plastic push-in fastener either end secures the facia to the crossmember, with a further clip at the base in the passenger footwell. Remove the various fasteners, noting their locations, then lift the panel off the crossmember **(see illustrations)**.

16 Disconnect the wiring plugs and release the harness behind the panel as it is removed **(see illustrations)**. Two small screws are used to secure the fusebox to the lower facia,

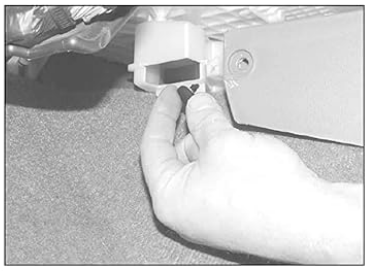


26.15a One of the lower section bottom mounting bolts

26.15b Remove the central screw (arrowed)

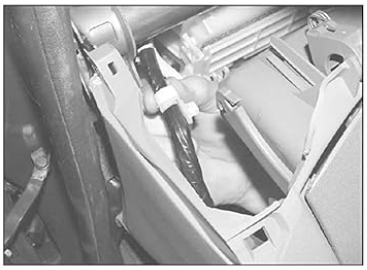


26.15c Prise out the plastic clip at each end . . .



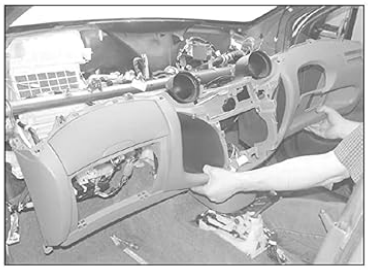
26.15d . . . and the one in the passenger footwell

26.16a Disconnect the wiring plugs inside the glovebox aperture . . .



26.16b . . . then unclip the harness from the back of the facia . . .

26.16c . . . and from various other points

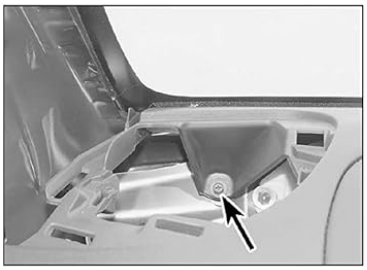


26.16d With everything detached from it, lift out the facia lower section

Image 5.1: A detailed page illustrating the repair and maintenance procedures for the suspension and steering components.

5.4. Body Equipment

- Bodywork and fittings
- Body electrical system



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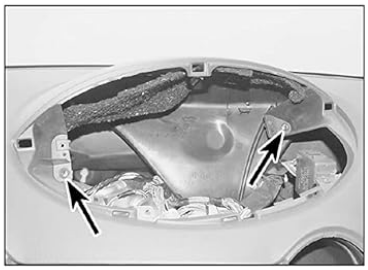

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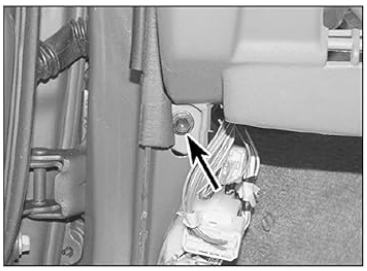

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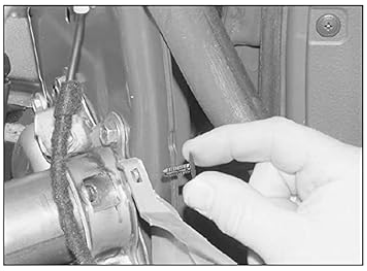
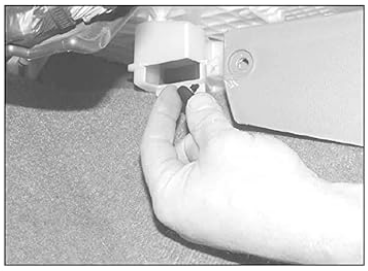


26.15c Prise out the plastic clip at each end . . .



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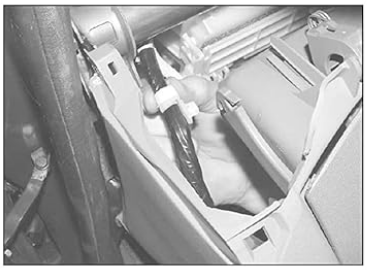

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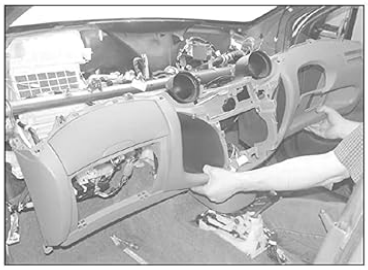


26.16d With everything detached from it, lift out the facia lower section

Image 5.2: An example page demonstrating the removal and installation of various bodywork and interior fittings.

5.5. Wiring Diagrams

Detailed wiring diagrams are included to assist in diagnosing and repairing electrical faults.

6. Troubleshooting

This section provides guidance on identifying and resolving common vehicle problems. It includes a fault finder to help pinpoint specific issues and offers step-by-step diagnostic procedures.

7. Technical Specifications

This section provides critical technical data and specifications for your Toyota Yaris, essential for accurate maintenance and repair.

7.1. Capacities

- Engine oil (including oil filter): 3.2 litres (All models)
- Cooling system (approximate): 4.7 litres (All models)
- Manual transmission: 1.4 litres (1.0 litre engine models), 1.9 litres (1.3 litre engine models)
- Automatic transmission: 5.5 litres (From dry), 2.1 litres (Drain and refill)
- Fuel tank: 45.0 litres (All models)

7.2. Cooling System

Antifreeze mixture: 50% antifreeze. Protection down to -37°C. Refer to antifreeze manufacturer for latest recommendations.

7.3. Auxiliary Drivebelt

Deflection (tension check):

- Models with manual steering: New belt: 4.5 to 5.5 mm, Used belt: 6.0 to 6.5 mm
- Models with electric power steering: New belt: 4.5 to 5.5 mm, Used belt: 6.0 to 6.5 mm
- Models with hydraulic power steering: New belt: 8.5 to 9.5 mm, Used belt: 11.5 to 12.5 mm

Note: Models with hydraulic power steering will have a fluid reservoir - refer to 'Weekly checks'.

7.4. Ignition System

Spark plugs:

- 1.0 litre engine models: Up to June 2001: NGK BKR5EYA or Denso K16R-U (Gap: 0.8 mm)
- July 2001 onwards: Bosch FR7DPP (Gap: 0.9 to 1.0 mm), Denso K20R-U11 (Gap: 1.0 to 1.1 mm)
- 1.3 litre 2SZ-FE engine models: Denso K16R-U (Gap: 0.8 mm)
- 1.3 litre 2NZ-FE engine models: NGK BKR5EYA or Denso K16R-U11 (Gap: 1.1 mm)

**The spark plug gap quoted is that recommended by Toyota for their specified plugs listed above. If spark plugs of any other type are to be fitted, refer to their manufacturer's recommendations.*

Note: Refer to Chapter 2A for engine code information.

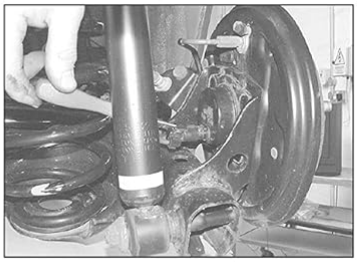
7.5. Brakes

Friction material minimum thickness:

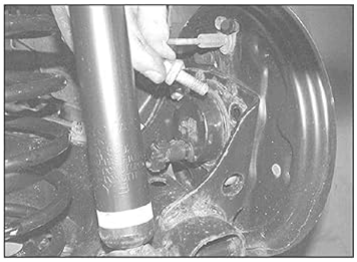
- Front brake pads: 1.0 mm
- Rear brake shoes: 1.0 mm

7.6. Tyre Pressures

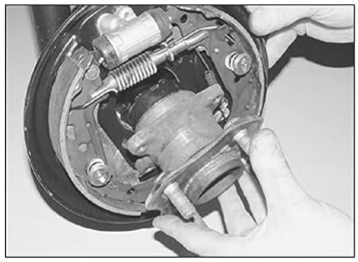
Refer to 'Weekly checks' on page 0•18 for detailed tyre pressure information.



9.6 Disconnect the ABS sensor wiring plug using a screwdriver



9.7a Remove the four hub mounting bolts . . .



9.7b . . . and withdraw the hub through the brake shoes

16 The remainder of refitting is a reversal of removal, noting the following points:

a) Tighten all fixings to the specified torque.
b) On models with hydraulic power steering, top-up and bleed the power steering system as described in Section 19.
c) Have the front wheel alignment checked on completion.

9 Rear hub and bearings – inspection and renewal

Note: *The rear hub and bearing are a sealed unit. If the rear bearings are worn, a new hub must be fitted. On models with ABS, the rear wheel sensor is fitted to the hub, and while it can be removed and fitted to the new unit, this is a job for a Toyota dealer (refer to Chapter 9, Section 17).*

Inspection

1 The rear hub bearings are non-adjustable.
2 To check the bearings for excessive wear, chock the front wheels, then jack up the rear of the vehicle and support it on axle stands. Fully release the handbrake.
3 Grip the rear wheel at the top and bottom, and attempt to rock it. If excessive movement is noted, or if there is any roughness or vibration felt when the wheel is spun, it is indicative that the hub bearings are worn.

Removal

4 Loosen the rear wheel nuts, then chock the front wheels (or engage a gear). Jack up the rear of the car, and support it on axle stands (see *Jacking and vehicle support*). Remove the rear wheel.
5 Remove the brake drum as described in Chapter 9. While the drum is removed, it would make sense to inspect the rear brake components for wear, and the wheel cylinder for signs of fluid leakage.
6 On models with ABS, disconnect the wiring plug for the rear wheel sensor from the back of the hub. A small screwdriver is useful to release the wiring plug catch **(see illustration)**.
7 Loosen the four bolts securing the hub (and brake backplate) to the trailing arm. Support the hub and backplate, and remove the four bolts. Withdraw the hub through the rear shoe assembly **(see illustrations)**.

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If the hub is reluctant to move, this is probably due to corrosion between the hub and backplate. To remove the hub, loosely refit the four bolts, and use a punch on each of the bolt heads in turn to release the hub. Take care to avoid damaging the ABS sensor, where applicable.

8 Temporarily refit the four bolts to hang the backplate onto, and cable-tie the backplate to the trailing arm, to prevent straining the brake pipe and handbrake cable.

Refitting

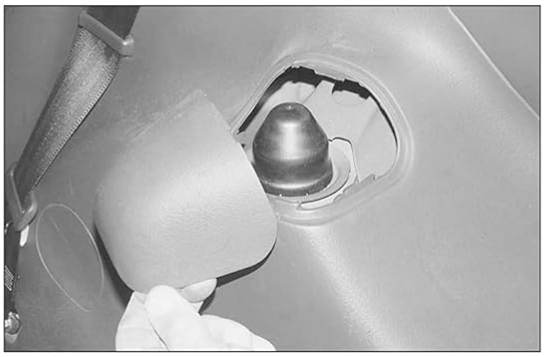
9 Refitting is a reversal of removal, noting the following points:

a) On models with ABS, if a new hub is being fitted, the rear wheel sensor should be transferred to the new hub by a Toyota dealer.
b) When refitting the hub, clean away any corrosion on its mating surfaces with the backplate, and apply a little copper grease to make future removal easier.
c) Tighten all fixings to the specified torque.
d) Refit the brake drum as described in Chapter 9.

10 Rear shock absorber – removal and refitting

Removal

1 Working in the boot, prise off the upper trim cover from the top of the shock absorber, then pull off the rubber cover underneath for access to the two top nuts **(see illustrations)**.
2 Using a spanner to hold the lower nut, loosen the top nut and remove it. Now using a



10.1a Prise off the plastic trim panel inside the boot . . .

10.1b . . . then pull off the shock absorber rubber cover

Image 7.1: A page from the manual detailing various servicing specifications, including fluid capacities, drivebelt deflection, and spark plug gaps.

8. Additional Reference Information

This section contains supplementary information to aid in understanding and working with your Toyota Yaris.

- Dimensions and weights
- Conversion factors
- Buying spare parts
- Vehicle identification

- General repair procedures
- Jacking and vehicle support
- Disconnecting the battery
- Tools and working facilities
- MOT test checks
- Glossary of technical terms

9. Support and Contact Information

For further assistance or inquiries regarding this manual, please refer to the publisher's official website or contact their customer support. Ensure you have the manual's ISBN (1785213245 or 978-1785213243) available for reference.

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