



**DOORS, HOODS, LIDS
AND SLIDING ROOF
MECHANISM**

41

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GENERAL DESCRIPTION

The variety of vehicle options available on the Transit have resulted in complexity of door options and lock mechanisms.

This section details the repair procedures associated with the more common options of hinged and sliding cab doors, hinged and sliding side loading doors, and double rear doors and tailgate.

The hinged driver and passenger doors are each hung on two hinges secured to the body hinge pillar and the door inner frame. If necessary, adjustment to the position of the door within the aperture can be made on the hinges.

An interior trim panel covers the access hole to the door interior mechanisms; it can be detached by removing the window winder handle, the remote control handle, arm rest (where applicable), and pulling the trim panel away from the door inner panel.

The interior lock remote control handle and the window winder handle are each secured by a crosshead screw and shakeproof washer located centrally in the handle boss. The arm rest is secured by two crosshead screws.

Door pull handles are located on the top of the door inner panel and are secured by two crosshead screws and spring washers.

The door locks are of a semi-rotary cam type where an external cam, operating in conjunction with a striker plate secured to the door pillar, rotates to give two positions, thus providing a safety catch and a fully closed position.

The remote control operating rod is secured to the remote control mechanism by a spring clip.

Private locks are fitted to all the exterior doors. Operated by the ignition key, they are located in the centres of the exterior door handles and form the housing for the lock operating plungers.

An interior trim panel covers the access hole to the side loading door interior mechanisms, it can be detached by removing the door interior handle and pulling the trim panel away from the door inner panel.

The interior lock remote control handle and escutcheon plate is secured by a crosshead screw and shakeproof washer located centrally in the handle boss.

The external handle, door lock and remote mechanisms are similar to these used on the cab doors.

The rear doors, each hung on two hinges, are secured to the rear body side panel and the door outer frame.

Rear door opening is achieved by external and internal handles held to the door (external) by two screws and to the handle shaft (internal) by a screw and washer located in the centre of the handle boss. A private lock, operated by the ignition Key is located in the centre of the exterior handle boss.

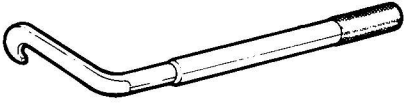


SERVICE ADJUSTMENTS AND CHECKS

At the regular service intervals, all hood, door and tailgate hinges, door check straps, and all locks, should be checked for efficient operation. If considered necessary, oil should be carefully applied,

taking care not to allow oil to contaminate interior trim, paintwork, etc. The hinge, door check strap and lock should then be operated several times to ensure smooth operation.

SPECIAL SERVICE TOOL RECOGNITION

Tool Number	Tool Name
 GTX 447	Torsion bar stress tool

TR/41/601

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DOORS, HOODS, LIDS AND SLIDING ROOF MECHANISM

SERVICE AND REPAIR OPERATIONS—CONTENT

DOORS, HOODS, LIDS AND SLIDING ROOF MECHANISM		Described in this publication	Contained in operation	Also applicable to certain variants in the following model range					
				Transit '77	Fiesta	Escort '75 onwards	Capri	Taurus '76 Cortina '77	Granada '78
41 213	Hood assembly – Adjust	X		X		X	X	X	X
41 214	Hood assembly – Remove and Install	X		X		X	X	X	X
41 218	Hood release cable – Adjust	X		X					
41 224	Cable – hood release – Remove and Install	X		X					
41 226	Lever assembly – hood release – Remove and Install		41 224			X	X	X	X
41 233	Spring – hood locking – Remove and Install	X		X					
41 235	Striker post – hood – Remove and Install	X		X		X	X	X	X
41 236	Safety catch – hood – Remove and Install	X		X					
41 238	Stay – hood – Remove and Install	X		X		X	X	X	X
41 253	Bump rubber – hood – Remove and Install	X		X		X	X	X	X
41 313	Door – Adjust	X		X					
41 314	Door assembly – Remove and Install	X		X					
41 333	Handle – door exterior – Remove and Install	X		X					
41 336 4	Barrel – door lock – Remove and Install	X		X					
41 352	Door lock assembly – Remove and Install	X		X					
41 355	Remote control assembly – door lock – Remove and Install	X		X					
41 356	Plate – door striker – Remove and Install	X		X		X	X	X	X
41 357	Rubber – door striker plate – Remove and Install	X		X		X	X	X	X
41 364	Spring – door check strap – Replace								
41 375	Weatherstrip – door aperture – Replace	X		X					
41 412	Side door assembly – Remove and Install		41 314						
41 423	Handle – side door exterior – Remove and Install		41 333						
41 432	Lock – side door – Remove and Install	X		X					
41 443	Weatherstrip – side door – Replace		41 375						
41 514	Door – sliding cab – Remove and Install	X		X					
41 516 4	Guide rod (lower) – sliding cab door – Remove and Install	X		X					
41 522	Handle – sliding cab door, exterior – Remove and Install	X		X					
41 526	Lock – sliding cab door – Remove and Install	X		X					
41 534 4	Weatherstrip – sliding cab door – front – Replace								
41 536 4	Weatherstrip – sliding cab door – rear – Replace		41 534 4						
41 554	Door – sliding side – Remove and Install	X		X					



DOORS, HOODS, LIDS AND SLIDING ROOF MECHANISM

SERVICE AND REPAIR OPERATIONS—CONTENT (cont'd)

DOORS, HOODS, LIDS AND SLIDING ROOF MECHANISM.		Described in this publication	Contained in operation	Also applicable to certain variants in the following model range					
				Transit '77	Fiesta	Escort '75 onwards	Capri	Taurus '76 Cortina '77	Granada '78
41 562	Handle – sliding side door – exterior – Removal and Install			X					
41 574	Roller unit – sliding side door – Remove and Install		41-554						
41 575	Arm – sliding side door upper guide – Remove and Install			X					
41 594	Weatherstrip – sliding side door aperture – Remove and Install		41 375						
41 613	Rear door – Adjust		41 615						
41 615	Rear door – Remove and Install	X		X					
41 622	Handle – rear door – exterior – Remove and Install	X		X					
41 625	Barrel – rear door lock – Remove and Install								
41 634	Strap – rear door check – Remove and Install	X							
41 644	Weatherstrip – rear door aperture – Replace	X							
41 653	Tailgate assembly – Adjust	X		X					
41 654	Tailgate assembly – Remove and Install	X		X					
41 662	Handle – tailgate – exterior – Remove and Install		41 664						
41 664	Barrel – tailgate lock – Remove and Install	X		X					
41 666	Lock assembly – tailgate – Remove and Install	X		X					
41 674	Plate – tailgate striker – Remove and Install	X		X		X	X	X	X
41 683	Torsion bar – tailgate – Remove and Install	X		X					
41 694	Weatherstrip tailgate – Replace		41 375						



SERVICE AND REPAIR OPERATIONS

41 213 HOOD ASSEMBLY – ADJUST

Special Service Tools required: None

1. Slacken bolts securing underside of hood to hinges, Fig. 1.
2. Slacken locknuts and fully screw in adjustable bump stops on front crossmember.
3. Check gap between rear edge of hood and front edge of cowl panel, and between sides of hood and edges of fenders. Move hood as necessary on hinges to equalise gaps, retighten fixings.
4. Adjust front bump stops to flush front edges of hood with fenders. Tighten lock nuts.
5. Close hood, ensuring striker fully engages hood lock spring. Check visible clearance between underside of hood and crossmember. This should be $7,5 \pm 1,5$ mm. Fig. 2. If necessary slacken striker locknut, screw striker, in or out, to achieve this setting. Hold striker in correct position then tighten locknut.

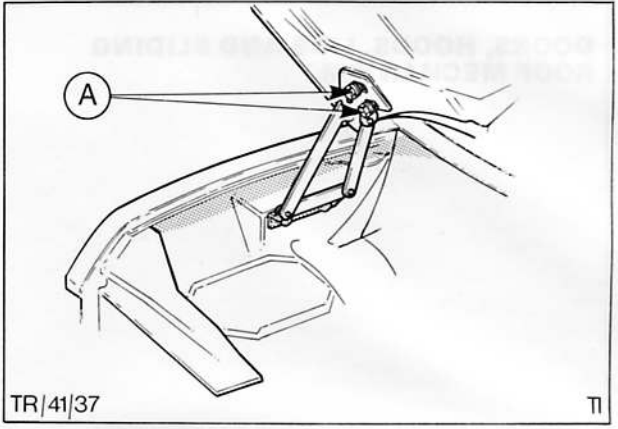


Fig. 1. Hood hinge bolts
A – Bolt and washer assemblies

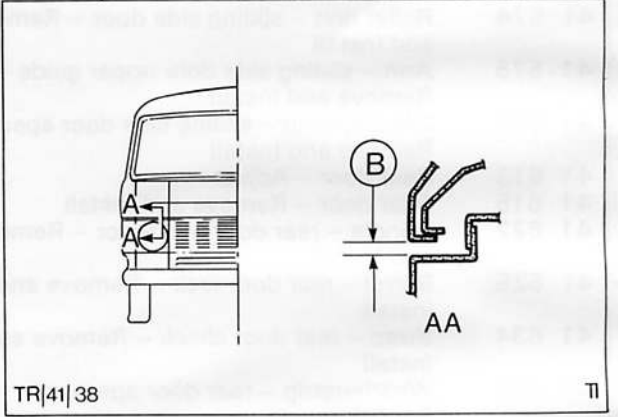


Fig. 2. Hood setting – underside of hood to crossmember clearance
B – $7,5 \pm 1,5$ mm

41 214 HOOD ASSEMBLY – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Open hood, remove windscreen washer tubes, mark around hinges with a pen or pencil, Fig. 3, remove two bolts from each hinge and lift off hood.

To Install

2. Position hood on hinges and loosely retain with two bolts each side.
3. Align hinges to previously marked lines then tighten securing screws.
4. If necessary, adjust hood as described in Operation No. 41-213 then refit washer tubes.

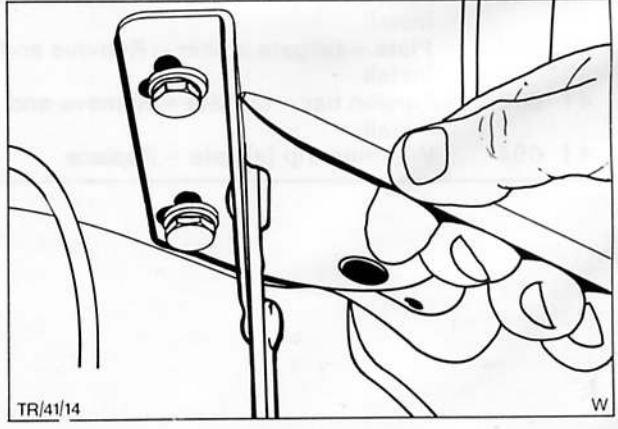


Fig. 3. Marking round hood hinges

41 223 HOOD RELEASE CABLE – ADJUST

1. Open hood, fit fender covers, slacken cable adjuster screws.
2. Pull cable until edge of hood lock spring contacts front face of hood lock sleeve, Fig. 4.
3. Hold cable in this position, tighten adjuster screws and re-check spring setting.
4. Close and release hood to check operation of lock. Hood should 'pop-up' freely, if not, this indicates striker post is out of alignment.

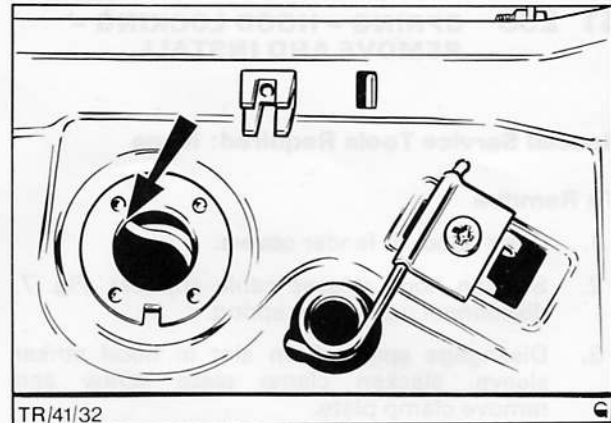


Fig. 4. Hood release spring adjustment: spring edge (arrowed) in contact with front face of sleeve

41 224 CABLE – HOOD RELEASE – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Open hood, fit fender covers, disconnect battery.
2. Slacken hood release cable and adjuster locknuts and unclip outer cable from fender apron and crossmember clips. Disconnect inner cable from hood release spring, then guide it through slot in adjuster bracket.
3. From inside passenger compartment disconnect handle pivot pin circlip and pull handle and cable assembly from handle bracket.
4. Pull cable through into passenger compartment and thence from vehicle.

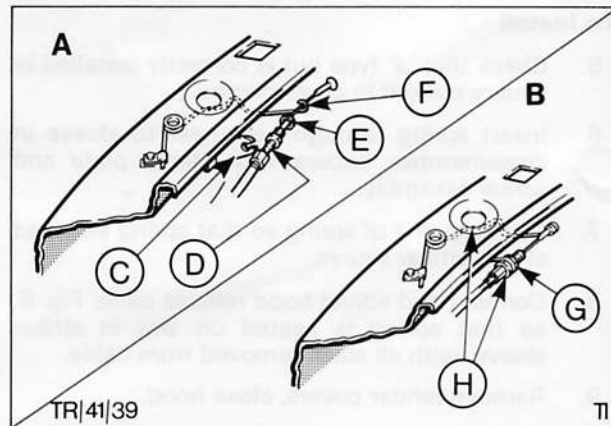


Fig. 5. Release cable to spring

- | | |
|----------------------|---|
| A – Locating cable | E – Locknut |
| B – Cable assembled | F – Spring |
| C – Adjuster bracket | G – Locknut |
| D – Adjuster | H – Adjustment determines spring position |

To Install

5. From passenger compartment insert cable through bulkhead into engine compartment and secure cable grommet in bulkhead.
6. Align cable and handle assembly on handle bracket and insert pivot pin. Secure pin with circlip.
7. Remove nut from cable adjuster and thread inner cable into striker release spring loop.
8. Hold outer cable and pull inner cable into spring loop to engage nipple. Insert inner cable into slotted hole in bracket. Release hold on outer cable to locate cable adjuster in slotted hole in bracket, Fig. 5.
9. Adjust cable, refer Operation No 41 223, sub operations 2 to 4.
10. Reconnect battery, remove fender covers.

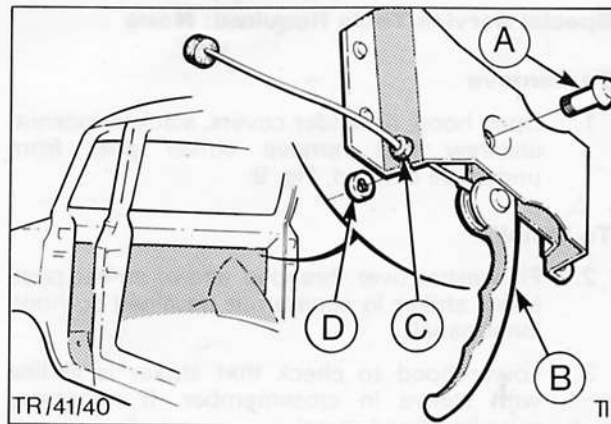


Fig. 6. Hood release cable handle assembly

- | | |
|---------------|-------------|
| A – Pivot Pin | C – Grommet |
| B – Handle | D – Circlip |



**41 233 SPRING - HOOD LOCKING -
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Open hood, fit fender covers.
2. Slacken hood release cable adjuster, Fig. 7, disconnect cable from spring.
3. Disengage spring from slot in hood striker sleeve, slacken clamp plate screw and remove clamp plate.
4. Manoeuvre spring from crossmember.

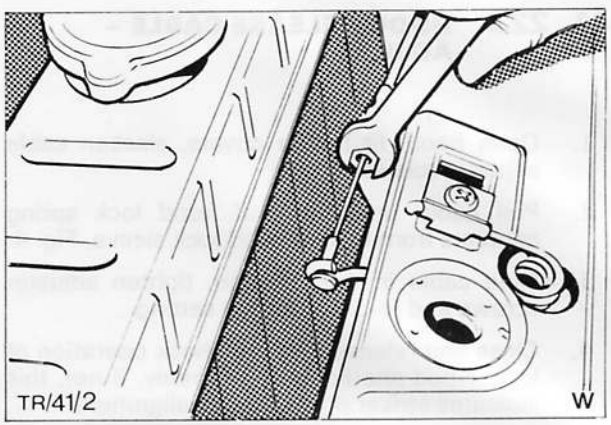


Fig. 7. Slackening hood release cable adjuster

To Install

5. Check that 'J' type nut is correctly installed in square cut out in crossmember.
6. Insert spring through hole next to sleeve in crossmember, secure with clamp plate and screw assembly.
7. Pull loop end of spring so that spring engages slot in striker sleeve.
8. Connect and adjust hood release cable Fig. 8, so that spring is seated on slot in striker sleeve, with all slack removed from cable.
9. Remove fender covers, close hood.

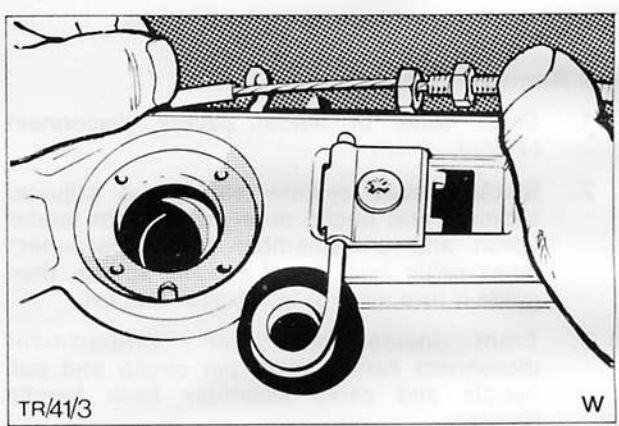


Fig. 8. Hood lock release cable to hood lock spring

**41 235 STRIKER POST - HOOD -
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Open hood, fit fender covers, slacken locknut, unscrew and remove striker post from underside of hood, Fig. 9.

To Install

2. Fit washer over threaded end of striker post, insert striker in square nut (retained by hood inner panel).
3. Lower hood to check that striker is in line with sleeve in crossmember. If necessary raise hood and re-set.

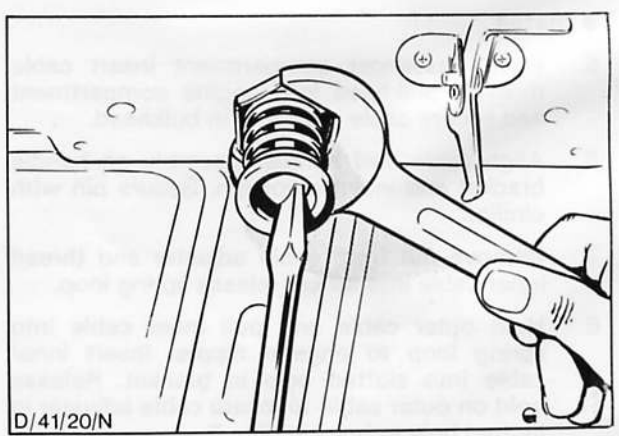


Fig. 9. Method of adjusting typical hood lock striker assembly

4. Close hood, ensuring striker, fully engages hood lock spring. Check visible clearance between underside of hood and cross-member. This should be $7,5 \pm 1,5$ mm. Fig. 10. If necessary screw striker in, or out, to achieve this setting.
5. Hold striker in correct position, then tighten locknut. Grease striker using lithium base grease.
6. Remove covers close hood.

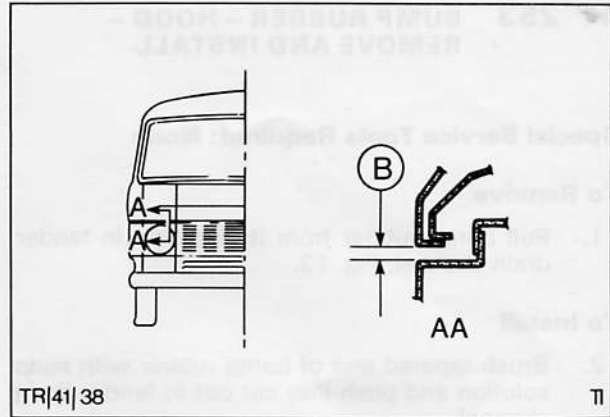


Fig. 10. Hood setting – underside of hood to grille panel
B – $7,5 \pm 1,5$ mm

41 236 SAFETY CATCH – HOOD – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Open hood, fit fender covers, remove bolt and clamp plate, detach safety catch from underside of hood, Fig. 11.

To Install

2. Position catch on underside of hood, secure with clamp plate, washer and bolt assembly.
3. Remove covers, check operation of catch.

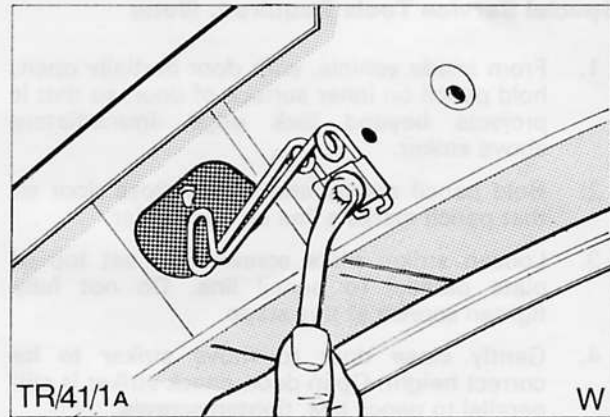


Fig. 11. Removing hood safety catch

41 238 STAY – HOOD – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Open and securely prop hood, fit fender covers. Lift free end of hood stay from its retaining clip and manoeuvre fixed end from grommet on crossmember, Fig. 12.

To Install

2. Insert stay in grommet then locate free end in crossmember clip. Remove prop and covers, close hood.

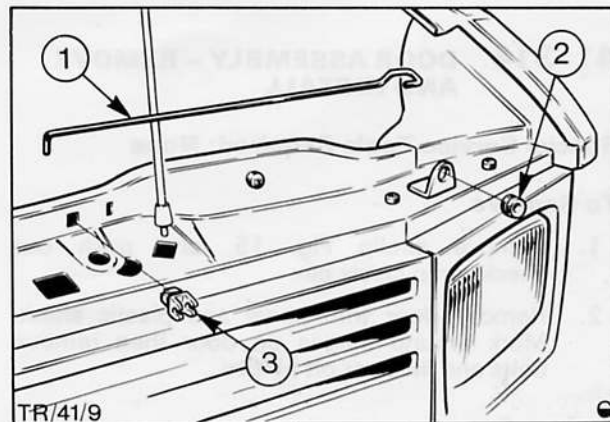


Fig. 12. Hood stay assembly
1 – Stay
2 – Grommet
3 – Clip

41 253 BUMP RUBBER – HOOD – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Pull bump rubber from its location in fender drain channel, Fig. 13.

To Install

2. Brush tapered end of bump rubber with soap solution and push into cut out in fender drain channel.

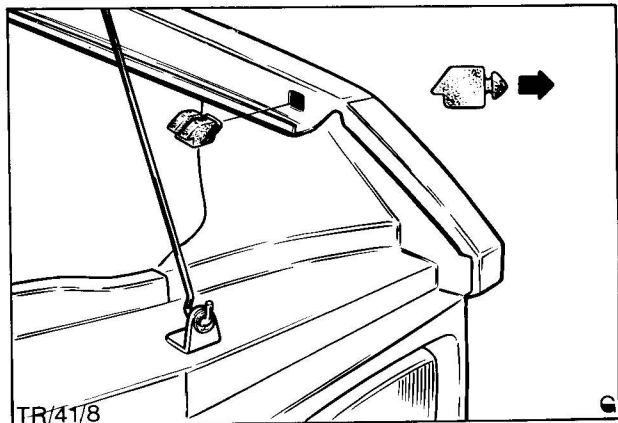


Fig. 13. Hood bump rubber assembly
Push tapered end of rubber into drain channel cut out

41 313 DOOR – ADJUST (Striker Plate Adjustment Only)

Special Service Tools Required: None

1. From inside vehicle, with door partially open, hold pencil on inner surface of door, so that it projects beyond lock edge, immediately above striker.
2. Hold pencil steady and slowly close door so that pencil marks a line on body pillar.
3. Loosen striker plate screws and set top of plate parallel to pencil line. Do not fully tighten screws at this stage.
4. Gently close door to move striker to its correct height. Open door, check striker is still parallel to pencil line, tighten screws.
5. Close door. Check door flushness to body contours. If necessary slacken screws and move striker outboard to align door and body. Avoid disturbing previously attained height setting.

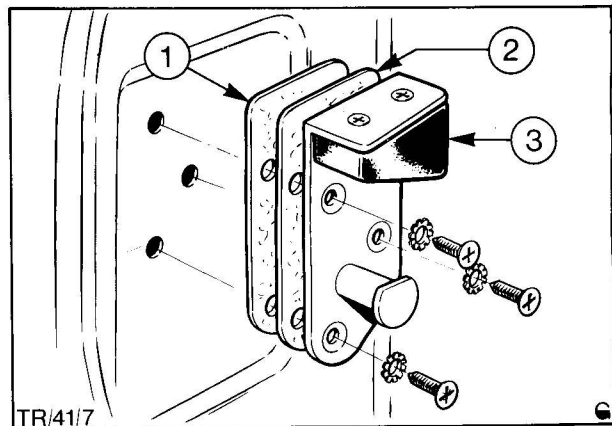


Fig. 14. Floor striker assembly
1 and 2 – Shim
3 – Plate

41 314 DOOR ASSEMBLY – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove circlip Fig. 15, and push out check strap clevis pin.
2. Remove door trim panel and plastic sheet. Mark around hinges on door then remove bolts and lift door off hinges.

To Install

3. Position door on hinges, insert bolt and washer assemblies and loosely secure door. Align door to previously made marks and tighten bolts.

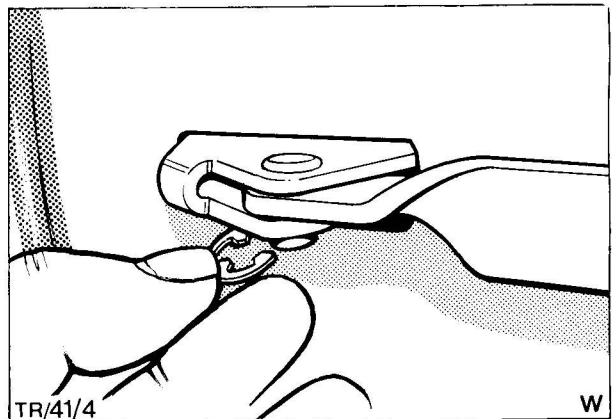


Fig. 15. Removing circlip from check strap clevis pin

4. Adjust door in frame, as necessary by moving door on hinges. Check door closing characteristics and flushness with bodyside, if necessary, adjust door striker plate.
5. Refit checkstrap clevis pin, circlip, door plastic sheet, and door trim panel.

41 333 DOOR EXTERIOR – REMOVE AND INSTALL

Special Service Tools Required:

To Remove

1. Remove door trim panel, and locally detach plastic sheet at exterior handle location.
2. Remove screw and washer assemblies securing door lock to shell.
3. Remove crosshead screws and washers securing handle to door (accessible through cut outs in door inner panel).

4. Unhook rods from lock. Turn handle until front end of handle is vertical, further turn handle towards front of vehicle, at same time guide handle rods through door cut out, Fig. 16.

To Install

5. With handle in vertical position insert rods through door cut out, and rotate handle into alignment.
6. Reconnect control rods, insert rubber gaskets between handle and door and secure handle to door with screw and washer assemblies.
7. Reposition lock on door shell and secure with screw and washer assemblies.
8. Refit plastic sheet and door trim panel.

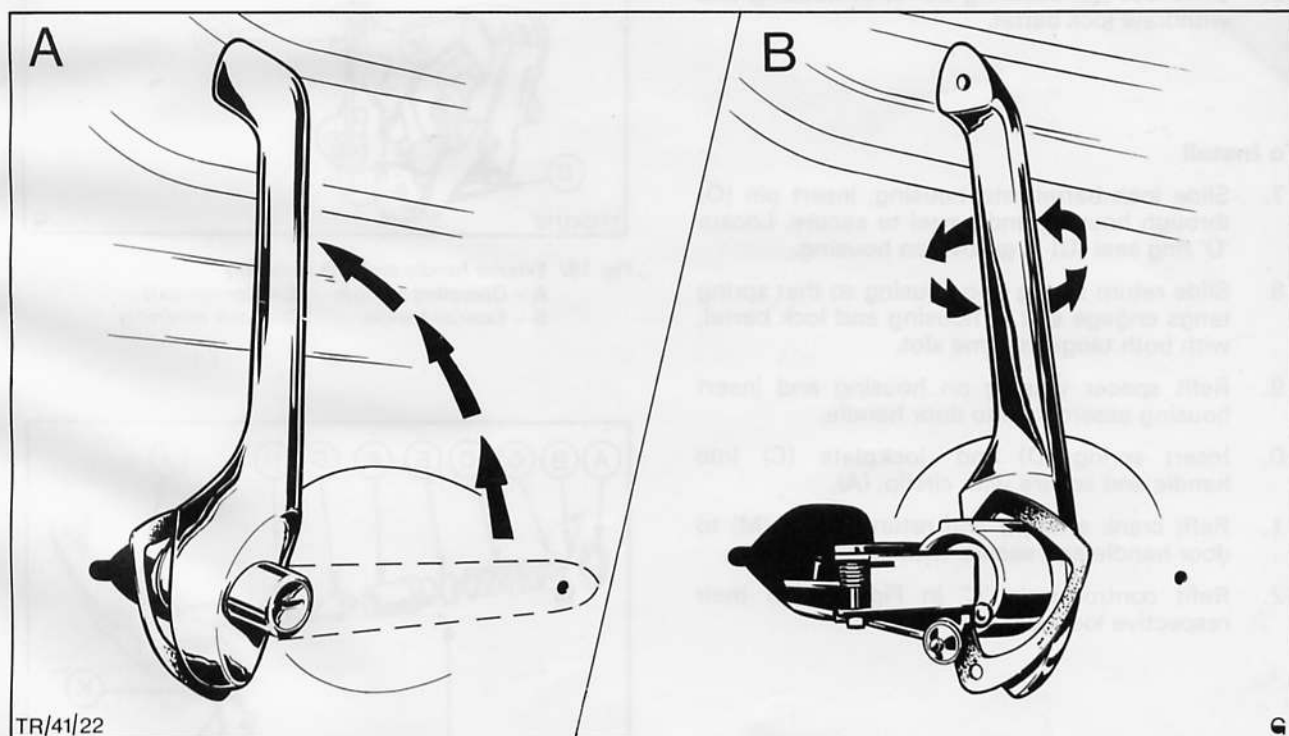


Fig. 16. Removing door exterior handle
A – Turn to vertical position

B – Twist towards front of vehicle



**41 336 4 BARREL - DOOR LOCK -
REMOVE AND INSTALL**

Special Service Tools Required: None

NOTE: Where individual components have been itemised within this operation by a letter code without an accompanying Fig. No., they will automatically refer to Fig. 19.

To Remove

1. Unhook and remove short and long lock control rods from crank arm, 'C' in Fig. 18.
2. Tap out pivot pin retaining crank arm to handle, (N) detach crank arm (K) and return spring (M).
3. Remove circlip A retaining lock barrel housing in handle and withdraw lock barrel, lock plate, spring and housing assembly from handle, Fig. 19.
4. Withdraw spacer washers from lock housing and prise return spring (E) from lock barrel.
5. Remove 'O' ring seal (G) from groove on housing.
6. Drive out pin securing barrel in housing and withdraw lock barrel.

To Install

7. Slide lock barrel into housing, insert pin (O) through housing and barrel to secure. Locate 'O' ring seal (G) in groove on housing.
8. Slide return spring into housing so that spring tangs engage slot in housing and lock barrel, with both tangs in same slot.
9. Refit spacer washer on housing and insert housing assembly into door handle.
10. Insert spring (D) and lockplate (C) into handle and secure with circlip, (A).
11. Refit crank arm (K) and return spring (M) to door handle and secure with pivot pin.
12. Refit control rods 'C' in Fig. 18, to their respective locations.

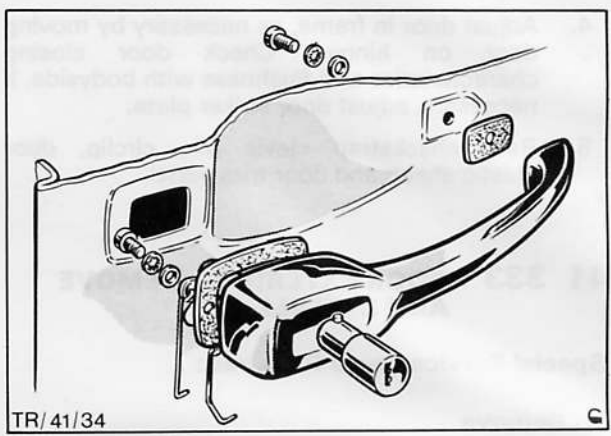


Fig. 17. Door exterior handle assembly

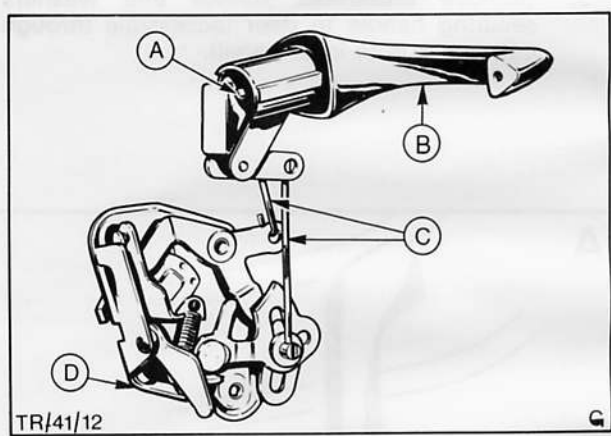


Fig. 18. Exterior handle and lock assembly
A - Operating plunger C - Control rods
B - Exterior handle D - Lock assembly

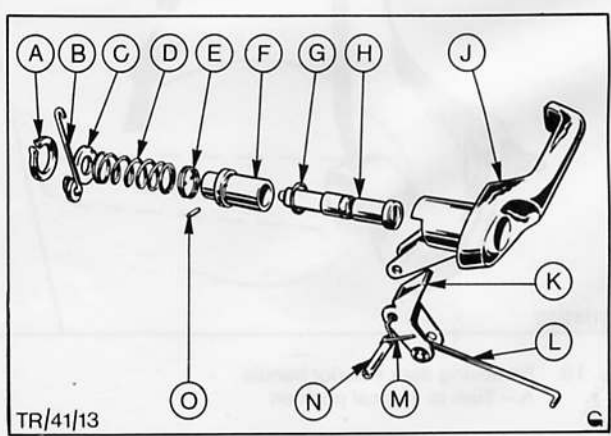


Fig. 19 Lock barrel assembly in door handle
A - Circlip F - Lock barrel housing L - Control rod
B - Control rod G - Seal M - Spring
C - Lockplate H - Lock barrel N - Pin
D - Spring J - Handle O - Pin
E - Lock return spring K - Crank arm



**41 355 REMOTE CONTROL ASSEMBLY
- DOOR LOCK - REMOVE AND
INSTALL**

Special Service Tools Required: None

To Remove

1. Remove door lock.
2. Remove control link from remote handle assembly.

To Install

3. Insert vertical hook end of rod through grommet in remote handle lever. Ensure that anti-rattle pad is in place in approximate centre of rod.
4. Position sealing washer around remote handle shaft.
5. Replace door lock.

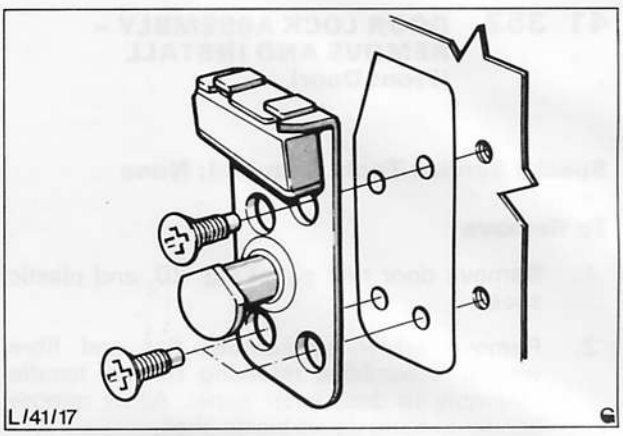


Fig. 23. Door striker plate assembly

**41 356 PLATE - DOOR STRIKER -
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Open door, mark around striker plate to facilitate reassembly, remove screws and detach plate, Fig. 23.

To Install

2. Position plate within previously made marks insert screws (leave loose).
3. Adjust striker.

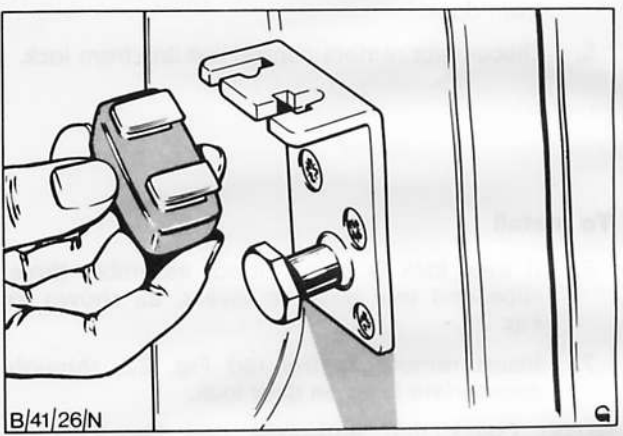


Fig. 24. Pull striker plate rubber from its location

**41 357 RUBBER - DOOR STRIKER
PLATE - REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Prise rubber clear of retaining lugs on striker plate, Fig. 24.
2. Disengage nylon pad from underside of rubber.

To Install

3. Refit nylon pad to underside of rubber, Fig. 25.
4. Engage rubber with striker lugs and push to secure.

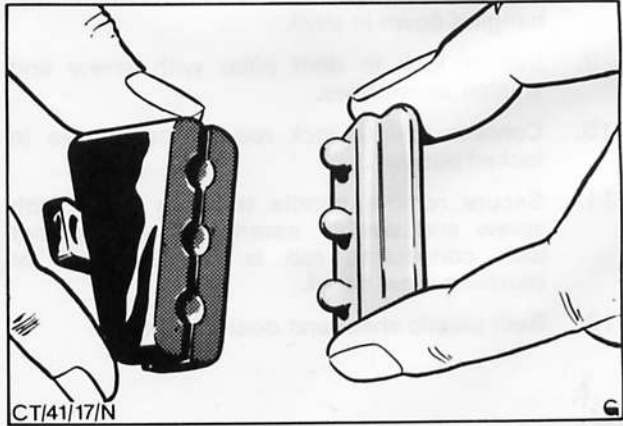


Fig. 25. Inserting nylon pad into striker plate rubber

41 364 DOOR CHECK STRAP – REMOVE AND INSTALL (Front Door)

Special Service Tools Required: None

To Remove

1. Remove door trim panel and locally pull back plastic sheet.
2. Remove two screw and washer assemblies securing check arm to door, Fig. 27.
3. Remove retainer and push clevis pin from 'A' pillar bracket.
4. Remove check arm from door shell.

To Install

5. Insert check arm through aperture in door shell. Loosely secure to door with two screws and washer assemblies.
6. Using a suitable grease, grease tongue of check arm. Align hole in tongue with bracket on 'A' pillar, insert clevis pin and secure with retainer, Fig. 27.
7. Refit plastic sheet and door trim panel.

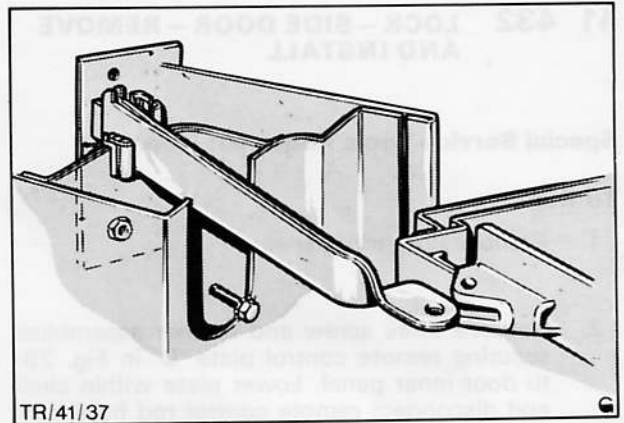


Fig. 26. Check arm screw locations (2) on door pillar

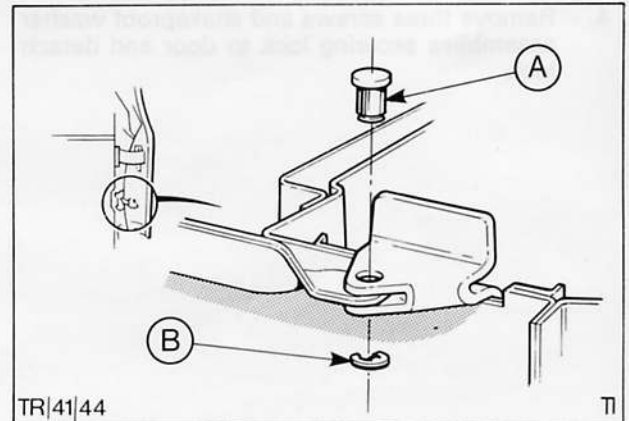


Fig. 27. Check arm clevis pin and retainer
A – Clevis pin
B – Circlip

41 375 WEATHERSTRIP – DOOR APERTURE – REPLACE

Special Service Tools Required: None

To Remove

1. Carefully pull weatherstrip from periphery of door inner panel.

To Install

2. Clean any old adhesive/debris from weatherstrip location on door inner panel.
3. Using adhesive to SQM-269101-A, or a suitable alternative, brush a film of adhesive around periphery of door inner panel in area of weatherstrip, Fig. 28 'B'.
4. Carefully press weatherstrip on to adhered area cut to length and butt joint ends.

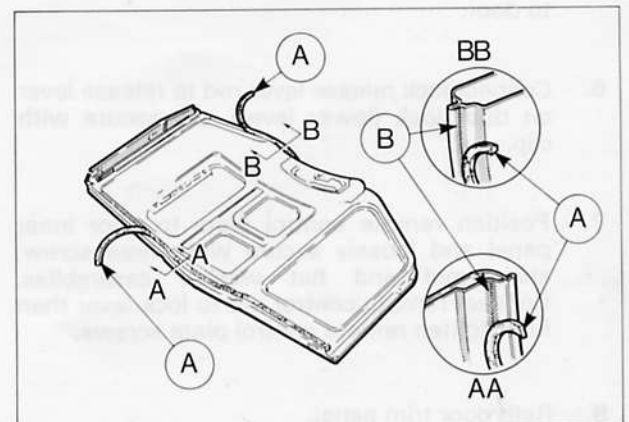


Fig. 28. Weatherstrip to door
A – Weatherstrip
B – Adhesive

41 432 LOCK - SIDE DOOR - REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove door trim panel.
2. Remove three screw and washer assemblies securing remote control plate 'D' in Fig. 29, to door inner panel. Lower plate within shell and disconnect remote control rod from lock lever.
3. Disconnect exterior handle rods from their door lock levers, Fig. 30.
4. Remove three screws and shakeproof washer assemblies securing lock to door and detach lock.

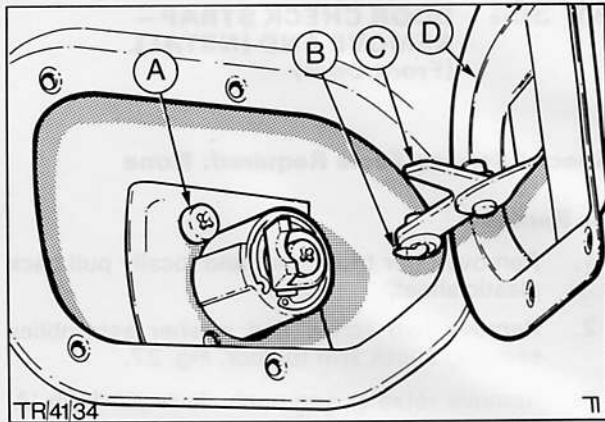


Fig. 29. Door lock assembly to door and exterior handle lock rod

A - Lock retaining screw C - Actuating arm
B - Lock rod D - Control plate

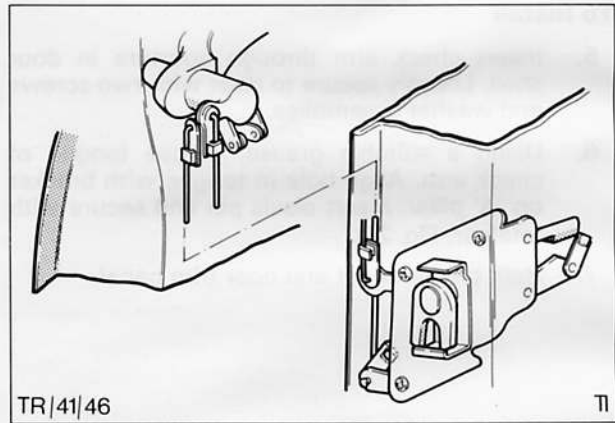


Fig. 30. Exterior handle release lever rod to release lever on lock

To Install

5. Position lock assembly on door pillar within door shell. Connect lock lever rod Fig. 31 'B', from outside handle to upper lever on lock assembly. Then insert and tighten three screw and washer assemblies to secure lock to door.
6. Connect lock release lever rod to release lever on door lock (lower lever) and secure with clip.
7. Position remote control plate to door inner panel and loosely secure with three screw, shakeproof and flat washer assemblies. Connect remote control rod to lock lever then fully tighten remote control plate screws.
8. Refit door trim panel.

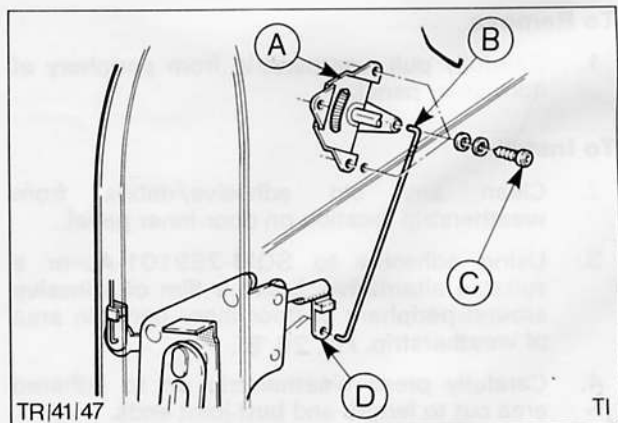


Fig. 31. Remote control assembly side door

A - Remote control C - Screw
B - Connecting rod D - Lock lever

41 514 DOOR - SLIDING CAB - REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove nut and flat washer assemblies securing sliding door lower guides to body and detach guides, Fig. 32.
2. Remove screws securing upper interior brush seal to body and remove brush strip.
3. Remove retainer and packing strip screws from beneath front roller, then slacken nut and bolt assemblies securing front roller to door.
4. Slacken bolts securing upper rear roller bracket and cover to door, then remove single screw and detach cover. Slacken remaining bolts securing bracket to door.
5. Remove door by lifting upwards and outwards to disengage door rubbers from upper guide channel.

To Install

6. With door in open position lift door rollers into position on upper guide channel.
7. Fit rear roller cover to door by inserting between rear roller fixing bracket and door. Tighten roller bracket bolts, then fit remaining screw Fig. 34 'C' to secure cover Fig. 34 'B' to roller bracket.
8. Tighten nut and bolt assemblies retaining front roller to door. Then locate retainer and packing strip beneath front roller bracket and secure with two screws.
9. Align holes in brush seal with those in door frame and secure with four screws.
10. Locate lower guides in the lower guide channel and secure to door with four nut and flat washer assemblies.

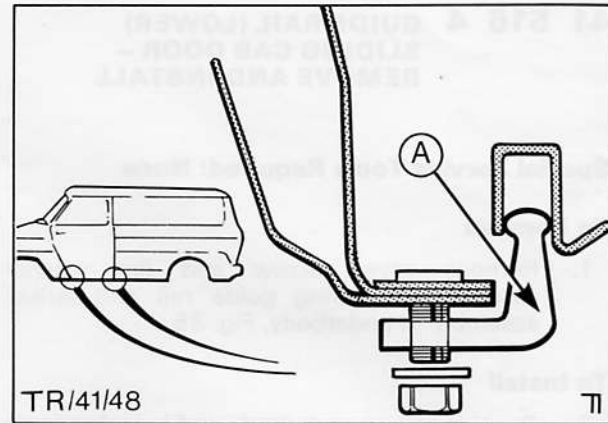


Fig. 32. Sliding cab door lower guides
A - Guide

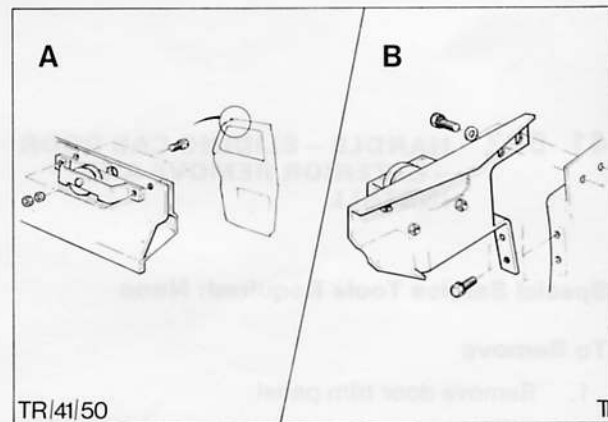


Fig. 33. Sliding door rollers
A - Front
B - Rear

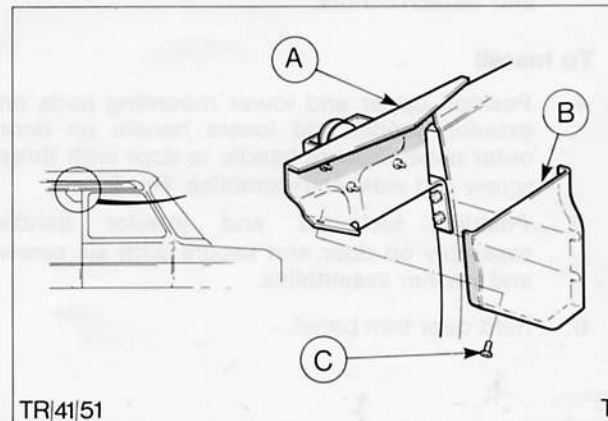


Fig. 34. Cover to sliding door rear roller
A - Rear roller
B - Cover
C - Screw

41 516 4 GUIDE RAIL (LOWER) SLIDING CAB DOOR – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove seven screw and flat washer assemblies securing guide rail and striker assembly to underbody, Fig. 35.

To Install

2. Position rail on underbody and loosely secure with screw and washer assemblies. Set guide rail inwards at front and outwards at rear then fully tighten bolts.

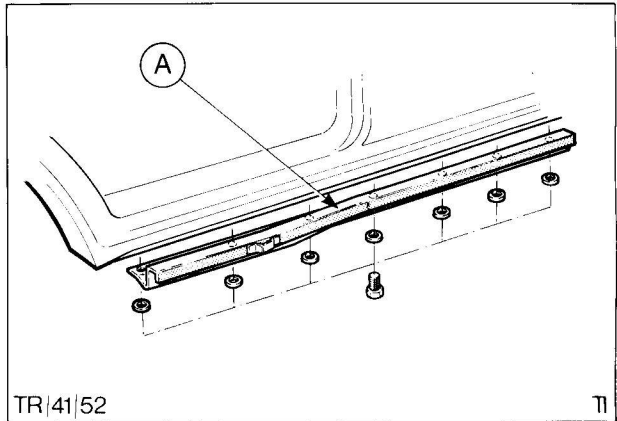


Fig. 35. Lower guide rail and striker assembly
A – Guide rail

41 522 HANDLE – SLIDING CAB DOOR – EXTERIOR REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove door trim panel.
2. Remove six screws and washer assemblies securing lockplate and interior handle assembly to door and remove assembly, Fig. 36.
3. Remove three screw and washer assemblies securing exterior handle to door outer panel and detach handle.

To Install

4. Position upper and lower mounting pads on exterior handle and locate handle on door outer panel. Secure handle to door with three screw and washer assemblies, Fig. 37.
5. Position lockplate and interior handle assembly on door and secure with six screw and washer assemblies.
6. Refit door trim panel.

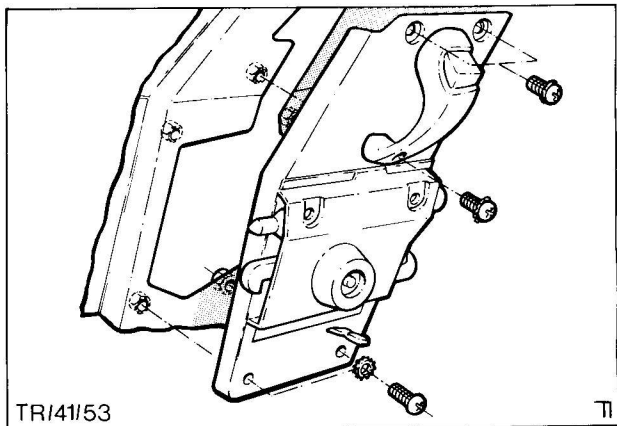


Fig. 36. Sliding lockplate and handle to door

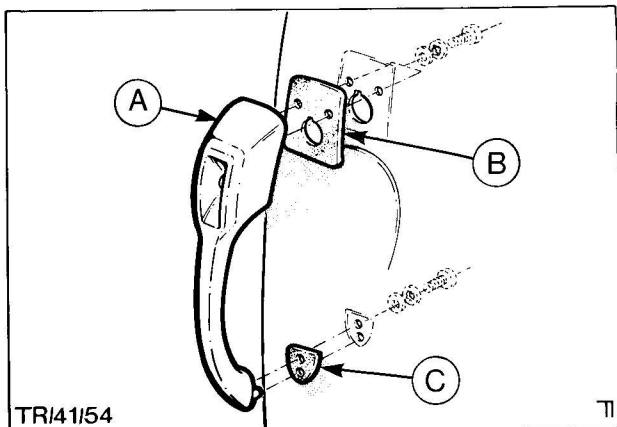


Fig. 37. Exterior handle and mounting pad assembly
A – Handle
B – Upper mounting pad
C – Lower mounting pad

41 526 LOCK – SLIDING CAB DOOR – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove interior handle and lockplate assembly.
2. Prise circlip Fig. 39 'B' off private lock lever pivot Fig. 39 'C' and disconnect interior release rod from pivot.
3. Drill out two pop rivets retaining lock assembly to lock plate and detach lock assembly.

To Install

4. Position lock assembly on lockplate and secure with two pop rivets, Fig. 38.
5. Place private lock lever in 'locked' position and adjust length of lock release rod Fig. 39 'A' until 0,040 in slip, or feeler gauge, just fits between end of lever and rod. Fit rod over lever pivot and secure with flat washer and circlip, Fig. 39 'B'.

41 534 4 WEATHERSTRIP – SLIDING CAB DOOR FRONT – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Drill out 'pop' rivet from flanged retainer at lower end of front weatherstrip and detach retainer. Pull upper end retainer of weatherstrip, then pull weatherstrip off flange.

To Install

2. Position weatherstrip on flange, tap into place with mallet, and trim to length if required.
3. Fit flanged retainer over to lower end of weatherstrip and secure to body with 'pop' rivet, Fig. 40.
4. Fit upper retainer over flange and weatherstrip.

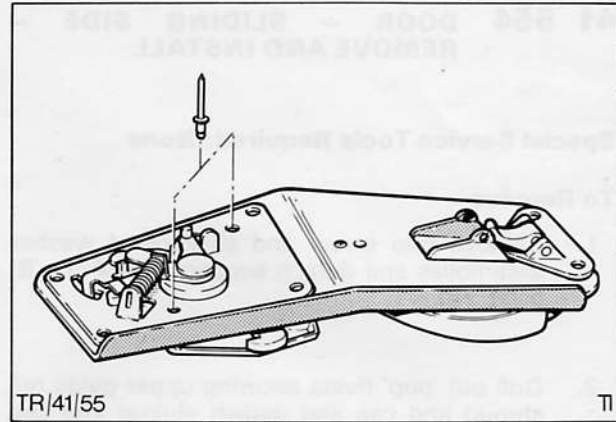


Fig. 38. 'Pop' rivet location, lock assembly to lockplate

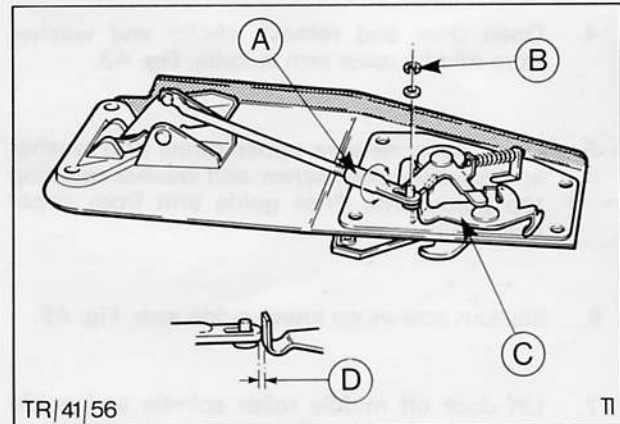


Fig. 39. Private lock lever and lock release rod adjustment.
Private lock lever in 'locked' position
A – Adjuster C – Lock lever
B – Circlip D – 0,040 in clearance

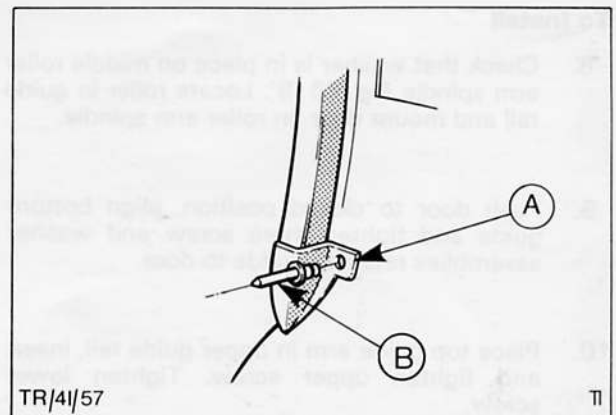


Fig. 40. Flanged retainer and 'pop' rivet (lower end front door aperture weatherstrip)
A – Flange
B – Pop rivet



**41 554 DOOR - SLIDING SIDE -
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Remove two screw and shakeproof washer assemblies and detach support from front 'B' pillar, Fig. 41.
2. Drill out 'pop' rivets securing upper guide rail shroud and cap and detach shroud and cap from rail, Fig. 42.
3. Remove screw and washer assembly securing shroud to upper guide arm.
4. Open door and remove circlip and washer from middle roller arm spindle, Fig. 43.
5. Close door, remove upper screw and washer and slacken lower screw and washer securing top guide arm. Prise guide arm from upper guide rail.
6. Slacken screws on lower guide arm, Fig. 45.
7. Lift door off middle roller spindle and guide roller out of guide rail.

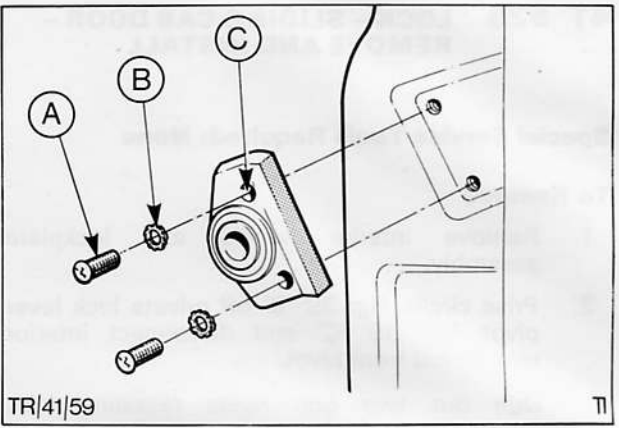


Fig. 41. Support (outer) assembly to 'B' pillar
A - Screw
B - Shakeproof Washer
C - Support

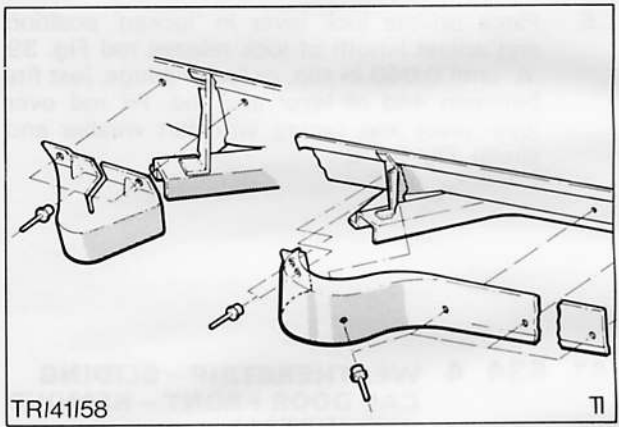


Fig. 42. Upper guide rail shroud and cap

To Install

8. Check that washer is in place on middle roller arm spindle Fig. 43 'B'. Locate roller in guide rail and mount door on roller arm spindle.
9. Push door to closed position, align bottom guide and tighten three screw and washer assemblies retaining guide to door.
10. Place top guide arm in upper guide rail, insert and tighten upper screw. Tighten lower screw.

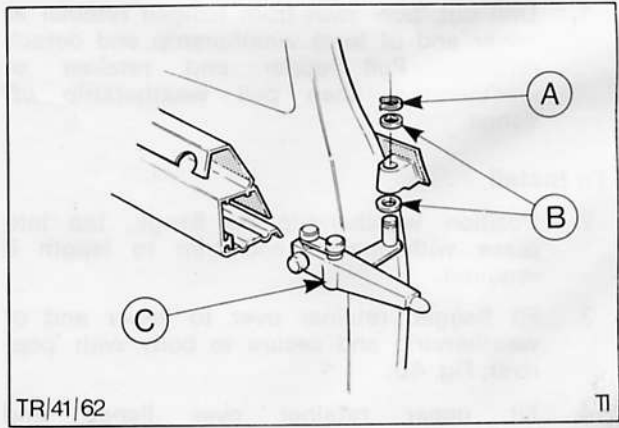


Fig. 43 Circlip and washer assembly middle roller arm spindle
A - Circlip
B - Washer
C - Roller arm

11. Open door and secure middle roller arm to door link with circlip and washer, Fig. 43.
12. Position shroud on upper guide arm and secure with screw and washer assembly, Fig. 44.
13. Position upper guide rail shroud and cap and secure with 'pop' rivets, Fig. 42.
14. Position outer support on 'B' pillar and secure with two screw and shakeproof assemblies, Fig. 41.

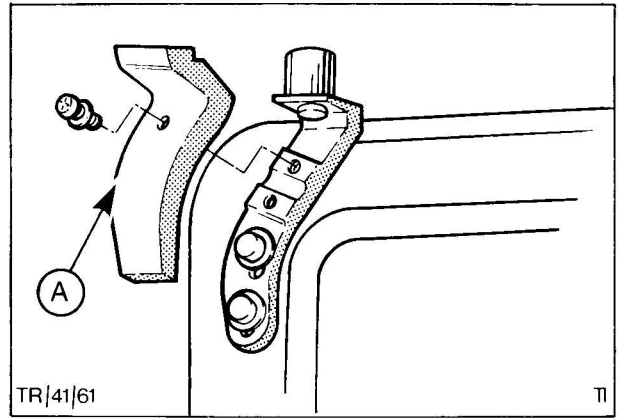


Fig. 44. Shroud assembly upper guide arm
A – Shroud

41 562 HANDLE – SLIDING DOOR – EXTERIOR – REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Pull circlip from handle lower spigot, Fig. 46 'D'.
2. Remove two screw and washer assemblies securing upper part of handle to door, Fig. 46 'A'.
3. Detach handle and mounting pads from door.

To Install

4. Locate mounting pads Fig. 46 'B', on upper and lower parts of handle.
5. Position handle on door, secure upper part with two screw and washer assemblies and lower part with circlip.

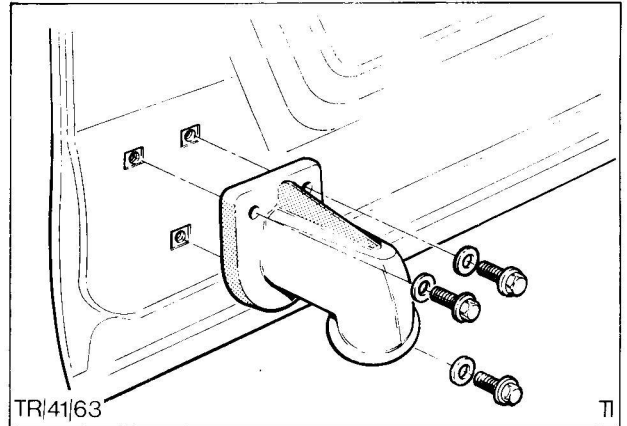


Fig. 45. Guide assembly sliding side door lower

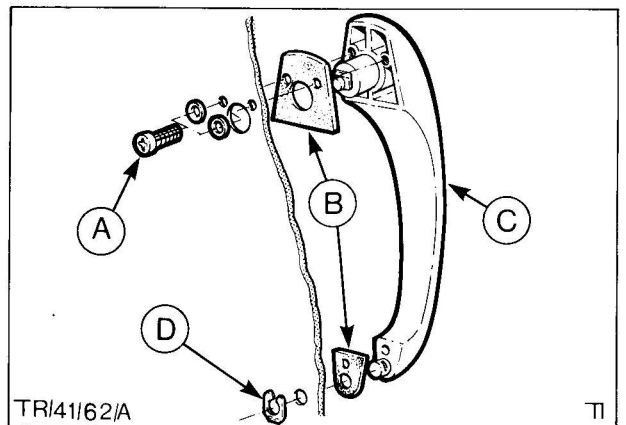


Fig. 46. Sliding door exterior handle assembly
A – Screw and washer C – Handle
B – Mounting pads D – Circlip

41 575 ARM - SLIDING DOOR UPPER GUIDE - REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove upper guide shroud, Fig. 47 'A'.
2. Remove upper screw, slacken lower screw and prise roller from upper guide.
3. Remove lower screw and detach arm and roller assembly. Lift roller off upper bolt shank on arm.

To Install

4. Assemble roller over upper bolt shank on arm.
5. Loosely secure arm to door with screw, spring and flat washer assembly.
6. Insert roller in upper guide then fit remaining screw and washer assembly. Tighten both screws.
7. Replace upper guide shroud.

41 594 WEATHERSTRIP - SLIDING SIDE DOOR APERTURE - REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Carefully pull weatherstrip from periphery of door aperture.

To Install

2. Clean door aperture of all traces of rubber/adhesive debris.
3. Apply masking tape around periphery of door aperture to protect body paintwork from excess adhesive.
4. Coat aperture periphery and weatherstrip with adhesive.
5. Locate weatherstrip in top left and right hand corners, then bottom corners, and finally press into place around the periphery of aperture. Firm weatherstrip into place with roller.

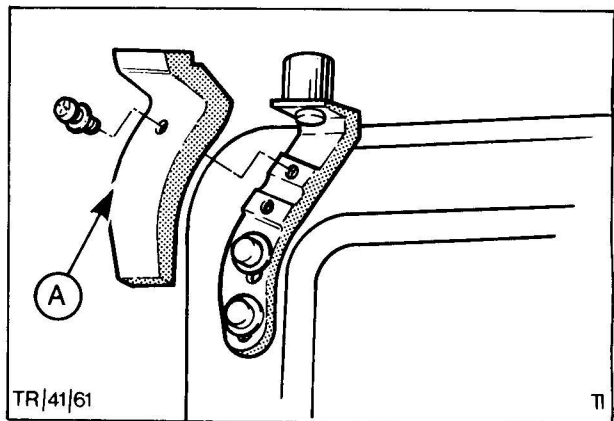


Fig. 47. Upper guide arm roller and shroud (A)

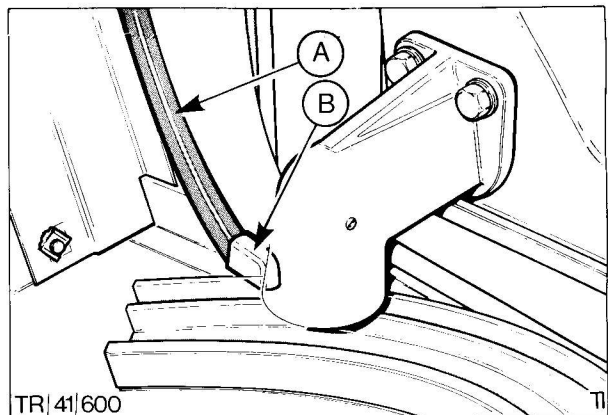


Fig. 48. Door aperture edging (A)
B - End cap

41 615 REAR DOOR - REMOVE AND INSTALL

Special Service Tools Required: None

To Remove

1. Remove screw and washer assembly and detach shrouds (two each hinge) from hinges, Fig. 49.
2. Remove checkstrap (Op No 41 364)

3. Mark around hinge locations on door, remove screws Fig. 50, from hinges and lift off door.

To Install

4. Position door on hinges, align to previously made marks and loosely secure with screws.
5. Move door as necessary on hinges to obtain uniform clearance between horizontal and vertical edges of aperture. Tighten hinge screws. If necessary, slacken screws retaining upper and lower striker plates to roof and floor, and move strikers as required to flush door with remaining door.
6. Check alignment of door dovetails, if necessary, add or subtract shims (to a maximum of four) under male dovetail (RH door) to achieve satisfactory engagement of dovetails, Fig. 51.
7. Replace check strap.
8. Refit hinge shrouds, and secure with retaining screws.

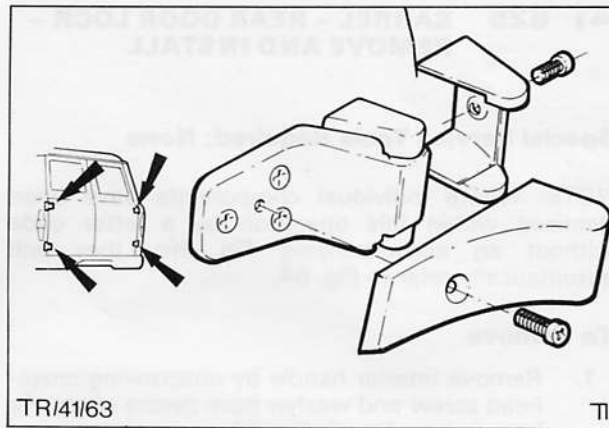


Fig. 49. Rear door hinge shrouds

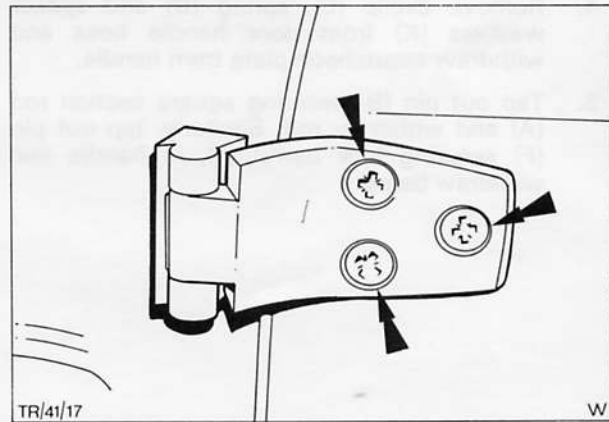


Fig. 50. Rear door hinge screws

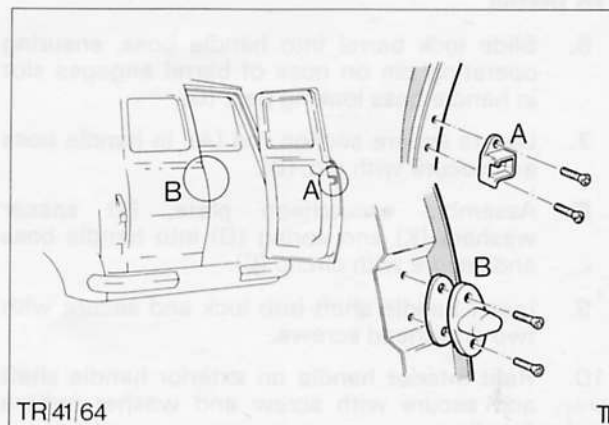


Fig. 51. Male and female dovetails rear
A - Female dovetail
B - Male dovetail

41 625 BARREL - REAR DOOR LOCK - REMOVE AND INSTALL

Special Service Tools Required: None

NOTE: Where individual components have been itemised within this operation by a letter code without an accompanying Fig. No, they will automatically refer to Fig. 54.

To Remove

1. Remove interior handle by unscrewing cross-head screw and washer from centre of handle boss (where fitted), Fig. 52.
2. Turn exterior handle to 'open' position and remove screws securing handle to door, Fig. 53.
3. Detach handle from door.
4. Remove circlip (C), spring (D) and spacer washers (K) from door handle boss and withdraw escutcheon plate from handle.
5. Tap out pin (B) securing square section rod (A) and withdraw rod. Similarly, tap out pin (F) securing lock barrel (J), in handle and withdraw barrel.

To Install

6. Slide lock barrel into handle boss, ensuring operating pin on nose of barrel engages slot in handle boss locking peg, (G).
7. Locate square section rod (A), in handle boss and secure with pin, (B).
8. Assemble escutcheon plate, (E) spacer washers (K) and spring (D) into handle boss and secure with circlip (C).
9. Insert handle shaft into lock and secure with two crosshead screws.
10. Refit interior handle on exterior handle shaft and secure with screw and washer (where fitted).

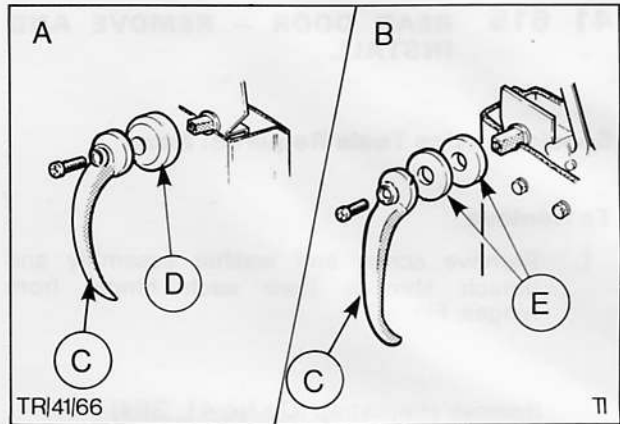


Fig. 52. Interior handle assemblies
A - Without trim panels D - Escutcheon
B - With trim panels E - Washers
C - Handle

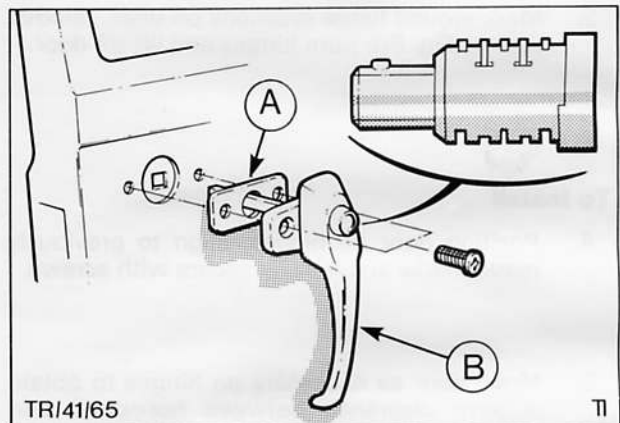


Fig. 53. Exterior handle and cylinder assembly
A - Mounting pad
B - Handle

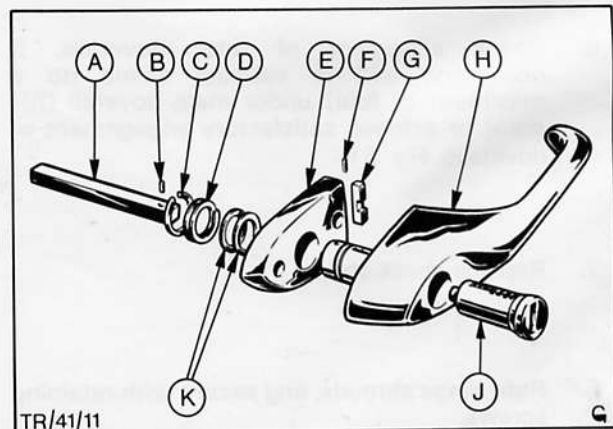


Fig. 54. Rear door exterior handle
A - Rod F - Pin
B - Pin G - Locking peg
C - Circlip H - Exterior handle
D - Spring washer J - Lock barrel
E - Escutcheon K - Spacers

**41 634 STRAP – REAR DOOR CHECK –
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Open rear doors, remove tool bag (LH door only), remove trim panel.
2. Remove two retaining nuts and washer assemblies and detach check strap, Fig. 55.

To Install

(Van and Kombi)

3. Position check strap on door pillar, insert studs of strap through holes in pillar and secure to pillar with nut and washer assemblies.
4. Pass arm through aperture in rear door, ensuring roller is on reinforced area on door. Fully tighten nuts.

(Bus and Crewbus)

3. Locate check strap between outer and inner door panels, and through check aperture.
4. Close door sufficiently to locate studs of check strap through holes in door pillar. Secure with nuts and washers.
5. Where applicable, replace tool bag, refit trim panel.

**41 644 WEATHERSTRIP – REAR DOOR
APERTURE – REPLACE**

Special Service Tools Required: None

To Remove

1. Carefully pull weatherstrip from periphery of rear door inner panel, and door flanges.

To Install

2. Clean any old adhesive/rubber debris from weatherstrip location on door inner panel. Wipe area with methylated spirit/acetone mix.

To Install

3. Using adhesive to SQM-269101-A, or a similar alternative, brush coat a film of adhesive around periphery of door in area of weatherstrip and along door flange, Fig. 56 'A'.
4. Starting at left hand top corner carefully press weatherstrip on to coated areas round door periphery. Carefully cut weatherstrip to length as required and butt joint ends. Seal both joints with adhesive.
5. Similarly, secure weatherstrip to door flange (LH rear door).

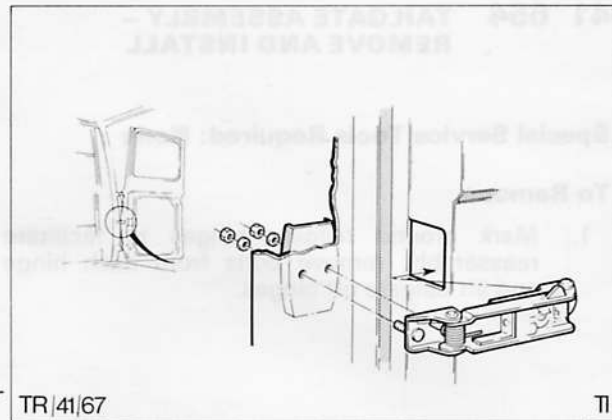


Fig. 55. Rear door check strap assembly

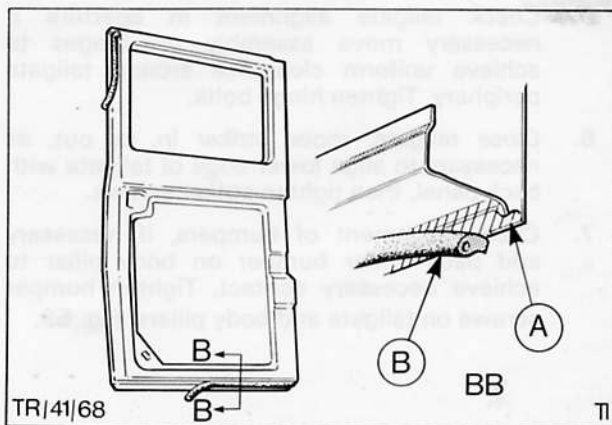


Fig. 56. Weatherstrip to door
A – Adhesive
B – Weatherstrip



**41 654 TAILGATE ASSEMBLY –
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Mark around tailgate hinges to facilitate reassembly, remove bolts from each hinge and lift tailgate off hinges.

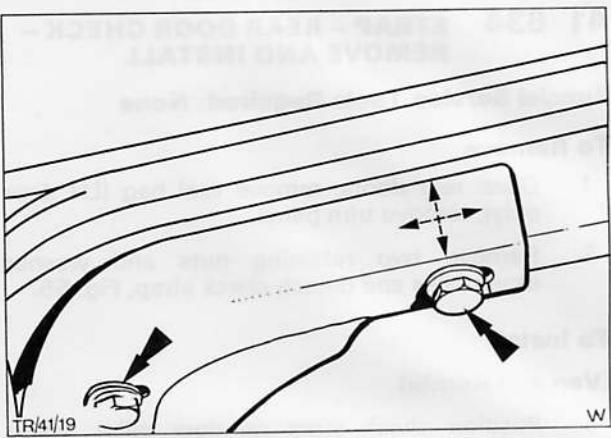


Fig. 57. Tailgate hinge bolts (arrowed) Broken arrows show area of movement within bolt hole

To Install

2. Position tailgate on hinges, loosely insert bolts and align hinges to previously made marks.
3. Slacken screws retaining bumpers on tailgate and tailgate aperture pillars.
4. Slacken screws retaining tailgate striker to load space floor, Fig. 58.

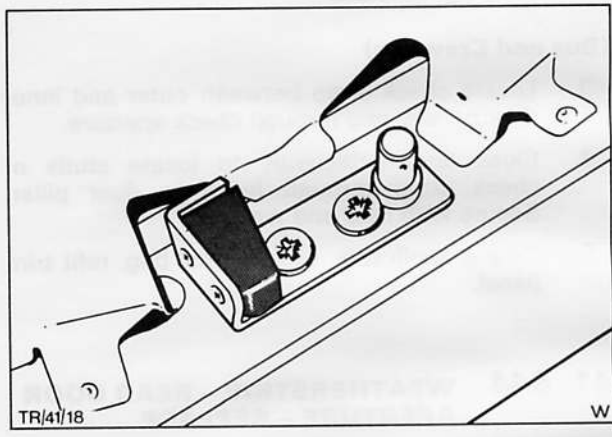


Fig. 58. Tailgate striker assembly

5. Check tailgate alignment in aperture if necessary move assembly on hinges to achieve uniform clearance around tailgate periphery. Tighten hinge bolts.
6. Close tailgate, move striker in, or out, as necessary to align lower edge of tailgate with back panel, then tighten striker screws.
7. Check alignment of bumpers, if necessary add pads under bumper on body pillar to achieve necessary contact. Tighten bumper screws on tailgate and body pillars, Fig. 59.

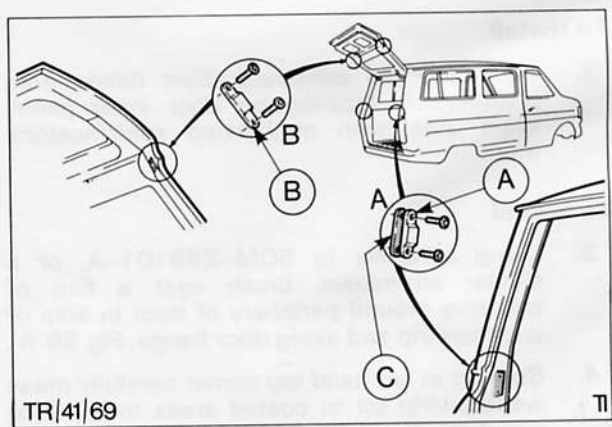


Fig. 59. Tailgate bumper assemblies
 A – Bumber on body pillar
 B – Bumber on tailgate
 C – Pads

**41 664 BARREL – TAILGATE LOCK –
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Open tailgate, remove tailgate trim panel. Remove single retaining screw and washer and detach lever from end of lock barrel.
2. Remove three screw and washer assemblies and lift handle and pad off tailgate.
3. Remove circlip and pull lock barrel from handle housing.

To Install

4. Insert lock barrel in handle housing and secure with circlip.
5. Position mounting pad on handle, locate handle on tailgate. Align holes in tailgate and handle insert and tighten screw and washer assemblies to secure.
6. Locate lever on end of lock barrel, secure with screw and washer.
7. Replace tailgate trim panel.

**41 666 LOCK ASSEMBLY – TAILGATE –
REMOVE AND INSTALL**

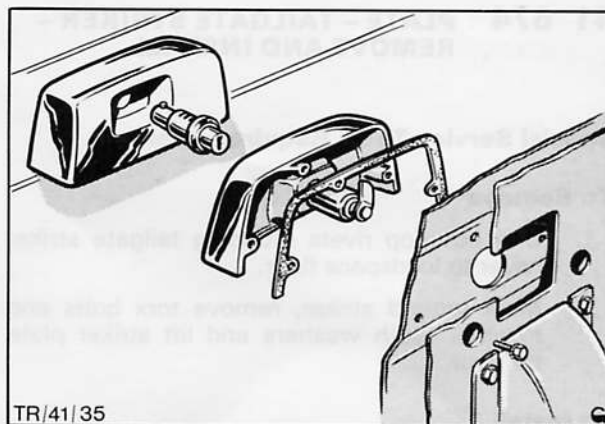
Special Service Tools Required: None

To Remove

1. Remove tailgate trim panel.
2. Remove bolt and spacer securing lock release lever to tailgate, Fig. 61.
3. Remove four screw and washer assemblies and detach lock from tailgate inner panel.

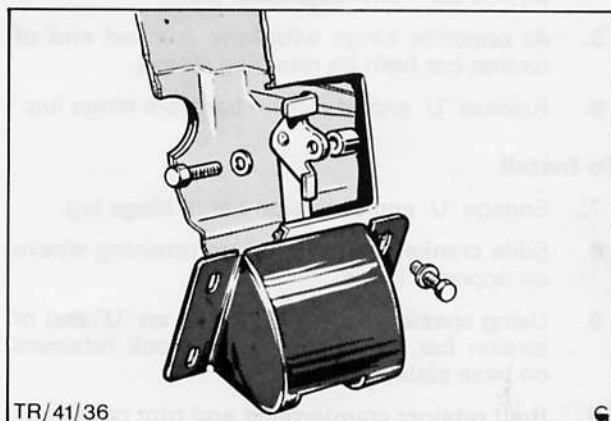
To Install

4. Insert release lever through aperture in tailgate inner panel, align holes in lock with those in tailgate, insert and tighten four screw and washer assemblies to secure.
5. Position spacer between lock release lever and tailgate, slide a further spacer over shoulder bolt insert and tighten bolt, through lever and spacer to secure lever to tailgate.
6. Refit tailgate trim panel.



TR/41/35

Fig. 60. Tailgate lock, lock barrel and handle assembly



TR/41/36

Fig. 61. Tailgate lock assembly



**41 674 PLATE – TAILGATE STRIKER –
REMOVE AND INSTALL**

Special Service Tools Required: None

To Remove

1. Drill out pop rivets retaining tailgate striker cover to loadspace floor.
2. Mark around striker, remove torx bolts and external tooth washers and lift striker plate off floor.

To Install

3. Position striker on floor within previously marked lines. Insert and tighten torx bolt and washer assemblies.
4. Position tailgate striker cover to loadspace floor and secure with pop rivets, Fig. 62.

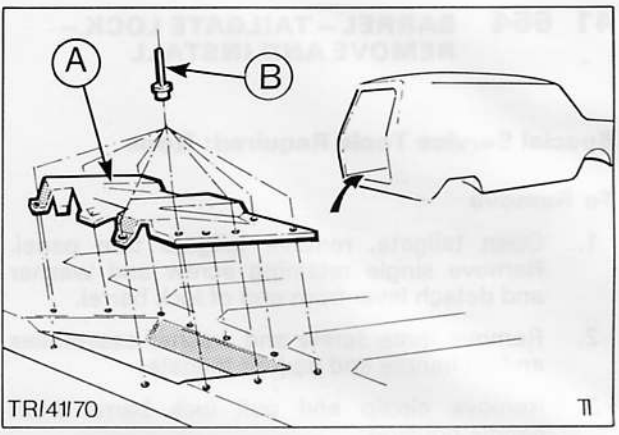


Fig. 62. Tailgate striker cover
A – Cover
B – Pop rivet

**41 683 TORSION BAR – TAILGATE –
REMOVE AND INSTALL**

Special Service Tools Required: GTX 447

To Remove

1. Remove tailgate header bar trim panel.
2. Unscrew nuts securing 'T' retainer and counter plate assembly and detach the assembly.
3. Fit special tool No GTX 447 to 'U' end of torsion bar.
4. Push lever of tool forwards and, whilst supporting tailgate in 'Open' position, unhook torsion bar from hinge base plate.
5. At opposite hinge withdraw cranked end of torsion bar from its retaining sleeve.
6. Release 'U' end of torsion bar from hinge lug.

To Install

7. Engage 'U' end of torsion bar in hinge lug.
8. Slide cranked end of bar into retaining sleeve on opposite hinge.
9. Using special tool No GTX 447 on 'U' end of torsion bar, lever bar behind hook retainers on base plate.
10. Refit retainer counterplate and trim panel.

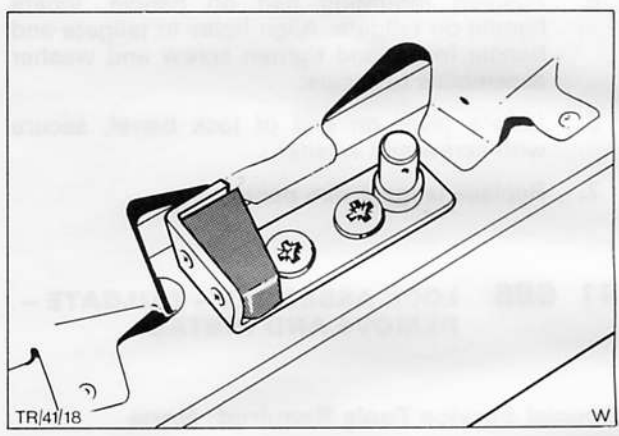


Fig. 63. Tailgate striker assembly

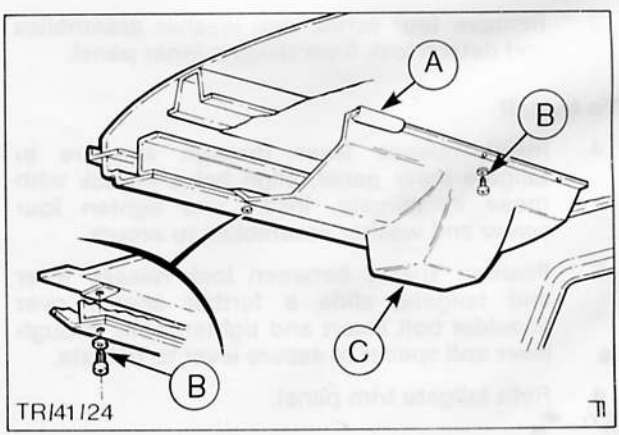


Fig. 64. Tailgate tension bar trim panel (C)
A – Anti-rattle pad
B – Screw and washer assembly