CONTENTS

Description and Operation	Daga
Gearbox components	Page
Cross section of gearbox	
Operation	
Adjustments	Sale La De-To

ajustments	Daga
Gearbox oil refill - from do	Page
Oil lovel sheets and to	rage 1
On level check and top - up.	

Repairs

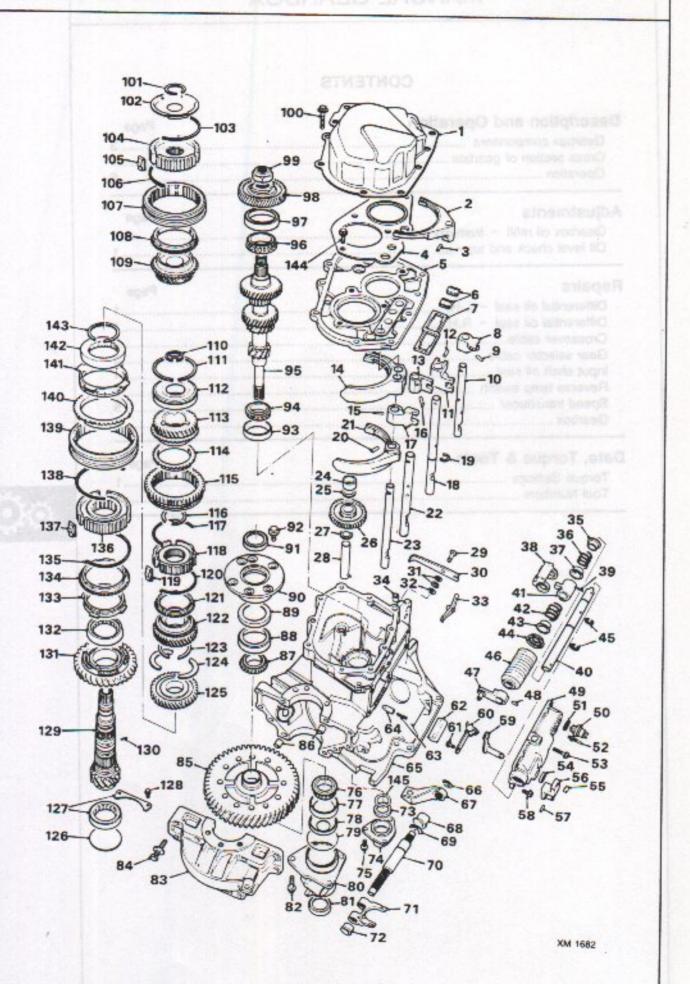
	Page
Differential oil seal - L.H.	
Differential oil seal - R.H.	1
Crossover cable	
Gear selector cable	2
Input shaft oil seal	
Reverse lamp switch	
Speed transducer	
Gearboy	5
Gearbox	

Data, Torque & Tools

Tornus Cattless	1 age
Torque Settings	
Tool Numbers	
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	and the second
Tool Numbers	



Page



GEARBOX COMPONENTS

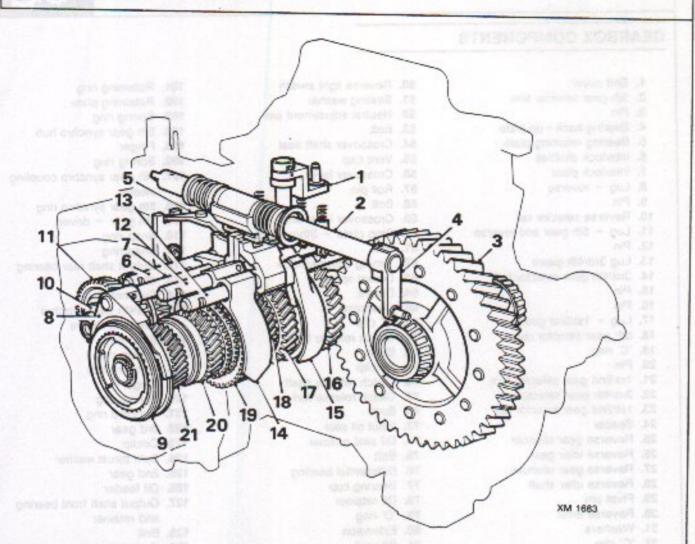
1	End cover
2	5th gear selector fork Pin
	Bearing back - up plate
5.	Bearing retaining plate
6.	Interlock shuttles
	Interlock plate
	Lug - reverse
	Pin
10.	Reverse selector rail
11.	Lug - 5th gear and reverse
12.	Pin
13.	Lug 3rd/4th gears
14.	3rd/4th gear selector fork
15.	Pin
	Pin
17.	Lug - 1st/2nd gears
18.	5th gear selector rail
19.	'C' ring
	Pin
21.	1st/2nd gear selector fork
22.	3rd/4th gear selector rail
23.	1st/2nd gear selector rail
24.	Spacer
25.	Reverse gear silencer
26.	Reverse idler gear
	Reverse gear silencer
	Reverse idler shaft
29.	Pivot pin
30.	Reverse lever
31.	Washers 'C' clip
32.	'C' clip
33.	Reverse pivot arm
34.	Spring dowel
	Selector spring sleeve
36.	Spring (long) - 5th/reverse
	gear selector
37.	Selector spring sleeve
38.	Selector inhibitor
	Roll pin
	Selector shaft
	Selector
	Spring (short) - 1st/2nd gea
	Selector
43.	Selector spring sleeve Selector shaft seal
44.	Snap rings
40.	Colorian shaft anitan
	Selector shaft gaiter Selector lever
	Pin
	Selector bousing

49. Selector housing

50. Reverse light switch 51. Sealing washer 52. Neutral adjustment pin 53. Bolt 54. Crossover shaft seal 55. Vent cap 56. Crossover lever 57. Roll pin 58. Bolt 59. Crossover lever shaft 60. Stop plate - 5th/reverse 61. Bolt 62. Timing cover window 63. Detent spring 64. Detent 65. Gearcase 66. 'C' clip 67. Clutch release lever 68. Bush 69. 'C' clip 70. Clutch release shaft 71. Clutch release fork 72. Bush 73. Input oil seal 74. Oil seal retainer 75. Bolt 76. Differential bearing 77. Bearing cup 78. Oil retainer 79. 'O' ring 80. Extension 81. Oil seal 82. Bolt 83. Differential casing 84. Bolt 85. Differential assembly 86. Hollow dowels 87. Differential bearing 88. Bearing cup 89. Oil feed batfle 90. Bearing retainer 91. Oil seal 92. Bolt 93. Bearing cup 94. Input shaft front bearing 95. Input shaft 96. Input shaft rear bearing

- 97. Bearing cup
- 98. 5th gear drive
- 99. Retaining nut
- 100. Bolt

101. Retaining ring 102. Retaining plate 103. Spring ring 104. 5th gear synchro hub 105. Finger 106. Spring ring 107. 5th gear synchro coupling sleeve 108. 5th gear synchro ring 109. 5th gear - driven 110. Snap ring 111. Snap ring 112. Output shaft rear bearing 113. 4th gear 114. Synchro ring 115. 3rd/4th gear synchro coupling sleeve 116. Snap ring 117. Spring ring 118. Synchro hub 119. Finger 120. Spring ring 121. Synchro ring 122. 3rd gear 123. Circlip 124. Split thrust washer 125. 2nd gear 126. Oil feeder 127. Output shaft front bearing and retainer 128. Bolt 129. Output shaft 130. Pin 131. 1st gear 1000 2000 132. Thrust washer NOVOEDON! 133. Sleeve 134. Synchro ring 135. Spring ring 136. Synchro hub 137. Finger 138. Spring ring 139. 1st/2nd gear synchro coupling sleeve 140. Synchro ring 141. Sleeve 142. Thrust washer 143. Snap ring 144. Bolt 145. Selective thrust washer



CROSS SECTION OF GEARBOX

- 1. Crossover lever
- 2. Selector shaft
- 3. Differential assembly
- 4. Selector lever
- 5. Reverse pivot arm
- 6. Reverse selector rail
- 7. 5th gear selector rail
- 8. 5th gear selector fork
- 9. 5th gear synchro assembly
- 10. Input shaft
- 11. 5th gear (drive)

- 12. 3rd/4th gear selector rail
- 13. 1st/2nd gear selector rail
- 14. 3rd/4th gear selector fork
- 15. 1st/2nd gear selector fork
- 16. 1st gear
 - 17. 2nd gear
 - 18. 3rd gear
 - 19. 3rd/4th gear synchro assembly
 - 20. 4th gear
 - 21. 5th gear (driven)

OPERATION

The 5 speed constant mesh gearbox comprises a gearcase with integral clutch housing, end cover, gear train components and the differential assembly.

The input shaft is carried in two taper needle bearings with all drive gears with the exception of 5th gear being integral with the input shaft. 5th gear is located on splines machined in the end of the input shaft and is secured by a self - locking nut.

The output shaft is carried in a roller bearing at the differential end and a ball bearing at the opposite end. All driven gears and synchro assemblies are located on the output shaft with the differential drive gear being an integral part of the shaft.

Reverse idler gear is carried on the reverse idler shaft and is free to rotate on the shaft which is secured in the gearcase by a roll pin. Reverse idler gear chatter is eliminated by means of a silencer bush on the shaft.

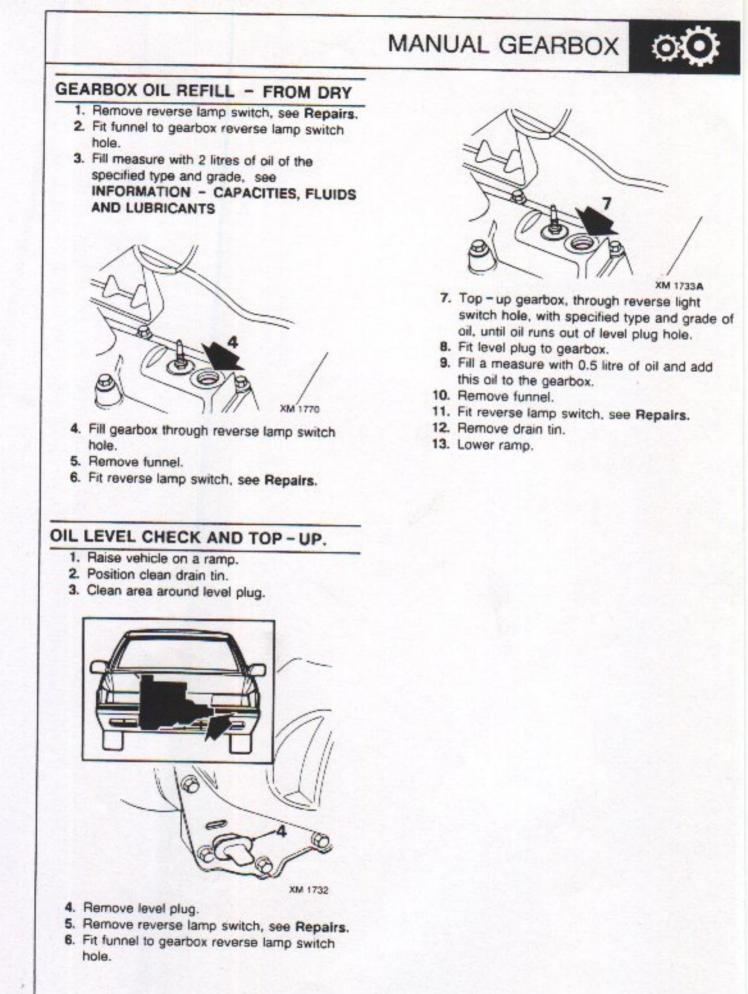
All forward gears are engaged via the selector shaft located in a housing bolted to the top of the gearcase; the selector lever being connected to the gear lever by a cable.

Reverse gear engagement is via the crossover cable connected to the crossover lever.

The gear selector forks are mounted on selector rails which connect to the selector by means of lugs. The selector mechanism incorporates a safety interlock to prevent a gearshift direct from 5th gear to reverse.

The differential assembly is carried in taper roller bearings and is located in the gearcase.

Geartrain lubrication is by splash with the differential and lower halves of geartrain being immersed in the gearbox oil. Drillings in the output shaft also direct oil to the synchro assemblies, gears and bearings.



ADJUSTMENTS

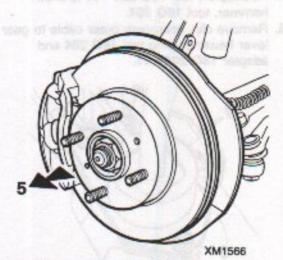
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DIFFERENTIAL OIL SEAL - L.H.

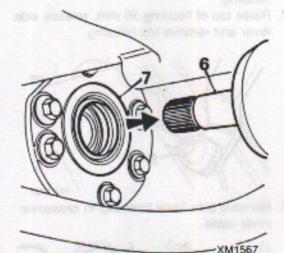
Service Repair No. 54.10.18

1. Raise front of vehicle.

- WARNING: Support on safety stands.
 - 2. Remove road wheel(s).
 - 3. Disconnect lower arm from ball joint, see REPAIR MANUAL - FRONT SUSPENSION - Repairs - Hub bearing and lower ball joint.
 - Position drain tin beneath differential housing.



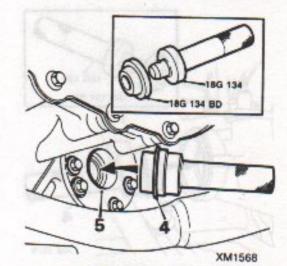
 Using assistance pull hub assembly outwards.



- 6. Release drive shaft from differential.
- Carefully prise oil seal out of differential housing; discard oil seal.

Refit

- Thoroughly clean oil seal recess and splines of drive shaft.
- Lubricate oil seal with clean gearbox oil see CAPACITIES, FLUIDS AND LUBRICANTS.



- 3. Fit 18G 134BD to 18G 134.
- Locate oil seal on 18G 134BD with sealing lip facing towards differential housing.
- Carefully drift oil seal into differential housing until it is fully seated in recess.
- 6. Remove 18G 134BD and 18G 134.
- With an assistant carefully pulling hub assembly outwards, insert drive shaft into differential.

CAUTION: Keep drive shaft horizontal to avoid damaging oil seal.

- Connect lower arm to steering knuckle , see REPAIR MANUAL - FRONT SUSPENSION - Repairs - Hub bearing and lower ball joint.
- Top up gearbox oil see Oil level check and top - up - Adjustments.
- 10. Fit road wheel and tighten nuts to 110 Nm.
- 11. Remove stand(s) and lower vehicle.

DIFFERENTIAL OIL SEAL - R.H.

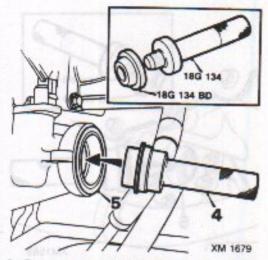
Service Repair No. 54.10.21

Remove

- Remove R.H. drive shaft see DRIVE SHAFT - Repairs.
- Carefully prise oil seal out of differential housing; discard oil seal.

Refit

- Thoroughly clean oil seal recess and splines of drive shaft.
- Lubricate oil seal with clean gearbox oil see CAPACITIES, FLUIDS AND LUBRICANTS.



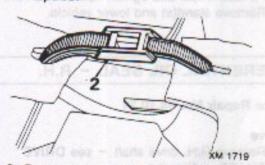
- 3. Fit 18G 134BD to 18G 134.
- Locate oil seal on 18G 134BD with sealing lip facing towards differential housing.
- Carefully drift oil seal into differential housing until it is fully seated in recess.
- 6. Remove 18G 134BD and 18G 134.
- Fit R.H. drive shaft see DRIVE SHAFT - Repairs.

CROSSOVER CABLE

Service Repair No. 37.16.17

Remove

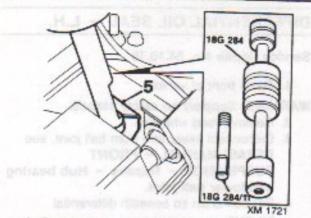
 Remove centre console and front ash tray, see REPAIR MANUAL - BODY -Repairs.



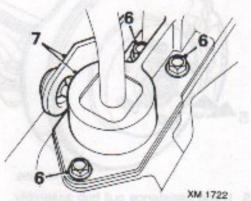
2. Remove strap securing carpet.



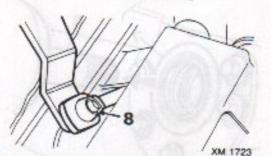
 Remove circlip, side lever to gear change top housing.



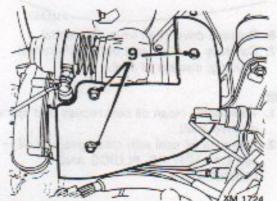
- Fit adapter, tool 18G 284 11 to slide hammer, tool 18G 284.
- Remove clip, crossover outer cable to gear lever housing using tool 18G 284 and adapter 18G 284 – 11.



- Remove 3 bolts securing top of gear lever housing.
- Raise top of housing 50 mm, release side lever and remove top housing.



 Remove side lever from clip in crossover inner cable.



 Remove 3 screws securing turbocharger heat shield; remove heat shield.

- Remove clip, crossover outer cable to gearbox bracket using tool 18G 284 and adapter 18G 284 – 11.
- Carefully prise crossover inner cable off lever.

CAUTION: Ensure crossover inner and outer cables are not subjected to excessive bending or damage to crossover cable guide will result.

12. Raise front of vehicle.

WARNING: Support on safety stands.

- Withdraw crossover cable from gearbox bracket.
- Release crossover cable from gear lever housing.
- 15. Withdraw crossover cable.

Refit

- Position crossover cable to gear lever housing.
- Position crossover cable to gear lever bracket.
- 3. Remove stand(s) and lower vehicle.
- Connect crossover inner cable to lever.

CAUTION: Do not subject inner and outer cables to excessive bending.

- 5. Fit clip to secure crossover outer cable.
- Fit turbocharger heat shield; fit and tighten 3 screws
- Secure lever to clip in crossover inner cable.
- Position and align bush in gear change top housing.
- 9. Fit side lever to gear change top housing.
- Fit top of housing, fit and tighten 3 bolts to 25 Nm.
- Align crossover outer cable to gear lever housing.
- 12. Fit clip to secure crossover outer cable.
- Fit circlip securing side lever to gear change top housing.
- 14. Fit strap to secure carpet.
- 15. Fit front ash tray and centre console, see REPAIR MANUAL - BODY - Repairs.

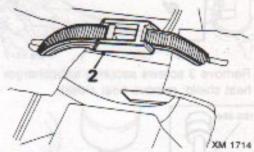
GEAR SELECTOR CABLE

Service Repair No. 37.16.16

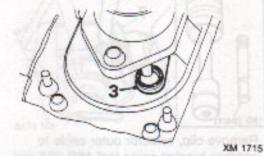
MANUAL GEARBOX

Remove

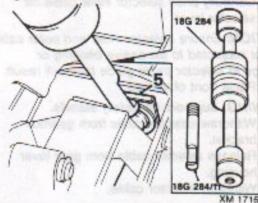
 Remove centre console and front ash tray, see REPAIR MANUAL - BODY -Repairs.



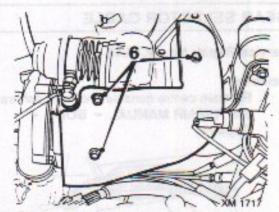
2. Remove strap securing carpet.



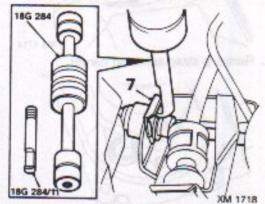
Release selector inner cable ball joint from gear lever.



- Fit adapter, tool 18G 284 11 to slide hammer, tool 18G 284.
- Remove clip, selector outer cable to gear lever housing using tool 18G 284 and adapter 18G 284 – 11.



Remove 3 screws securing turbocharger heat shield; remove heat shield.



- Remove clip, selector outer cable to gearbox bracket using tool 18G 284 and adapter 18G 284 – 11.
- Carefully prise selector inner cable off selector lever.

CAUTION: Ensure selector inner and outer cables are not subjected to excessive bending or damage to selector cable guide tube will result.

9. Raise front of vehicle.

WARNING: Support on safety stands.

- Withdraw selector cable from gearbox bracket.
- Release selector cable from gear lever housing.
- 12. Withdraw selector cable.

Refit

- Position selector inner and outer cables.
 Position selector outer cable to gearbox
- bracket.
- 3. Remove stand(s) and lower vehicle.
- Connect selector inner cable to selector lever.

CAUTION: Do not subject inner and outer cables to excessive bending.

- 5. Fit clip to secure selector outer cable.
- Fit turbocharger heat shield; fit and tighten 3 screws.
- Connect selector inner cable ball joint to gear lever.
- Push gear lever forwards and align selector outer cable to gear lever housing.

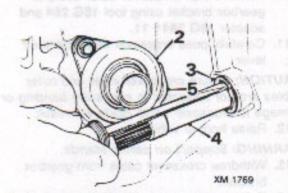
- 9. Fit clip to secure selector outer cable.
- 10. Fit strap to secure carpet.
- Fit front ash tray and centre console, see REPAIR MANUAL - BODY - Repairs.

INPUT SHAFT OIL SEAL

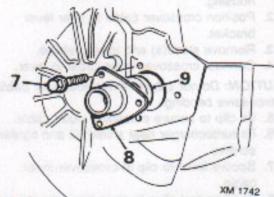
Service Repair No. 37.23.06

Remove

1. Remove gearbox.



- Remove clutch release bearing.
- Remove 'C' clip securing clutch release shaft.
- 4. Withdraw shaft.
- 5. Remove release fork.
- 6. Remove 2 bushes.



- Remove 3 bolts, input shaft oil seal retainer to gearcase.
- 8. Withdraw retainer, recover shim.

CAUTION: Do not discard shim.

9. Remove and discard oil seal.

Refit

- Clean retainer, gearbox mating face, clutch release shaft, bush recesses, bushes and release fork.
- Smear oil seal with clean gearbox oil, see CAPACITIES, FLUIDS AND LUBRICANTS.
- 3. Fit oil seal to retainer.
- Apply RTV sealant to gearbox mating face of retainer.

5. Position shim to retainer

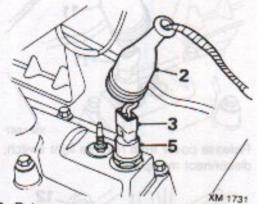
- Fit retainer to gearbox; fit and tighten 3 bolts to 15 Nm.
- Apply suitable grease to inner surface of clutch release shaft bushes, see CAPACITIES, FLUIDS AND LUBRICANTS.
- 8. Fit 2 bushes.
- 9. Fit clutch release shaft and release fork.
- 10. Fit 'C' clip.
- 11. Fit clutch release bearing.
- 12. Fit gearbox.

REVERSE LAMP SWITCH

Service Repair No. 37.27.01.

Remove

1. Raise vehicle on a ramp.



- 2. Release cover from reverse lamp switch.
- 3. Disconnect multiplug.
- 4. Clean area around reverse lamp switch.
- 5. Remove switch; discard sealing washer.

Refit

- 1. Fit new sealing washer to switch.
- 2. Fit switch
- 3. Reconnect multiplug.
- 4. Locate cover on switch.
- 5. Lower ramp.

MANUAL GEARBOX

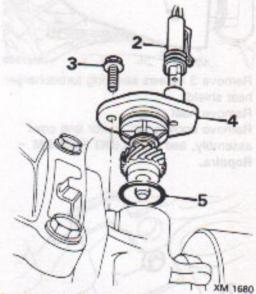


SPEED TRANSDUCER

Service Repair No. 37.25.15.

Remove

- 1. Raise front of vehicle.
- WARNING: Support on safety stands.



- 2. Disconnect speed transducer multiplug.
- 3. Remove bolt securing speed transducer.
- 4. Withdraw speed transducer from gearbox.
- 5. Remove and discard 'O' ring.

Refit

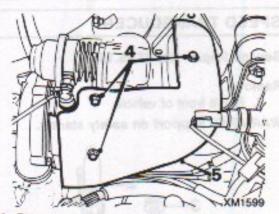
- Lubricate new 'O' ring with clean gearbox oil, see CAPACITIES, FLUIDS AND LUBRICANTS.
- 2. Fit 'O' ring to speed transducer.
- 3. Fit speed transducer.
- 4. Fit and tighten bolt to 8 Nm.
- 5. Connect multiplug.
 - 6. Remove stand(s) and lower vehicle.

GEARBOX

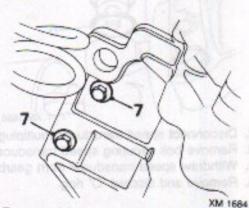
Service Repair No. 37.20.02

Remove

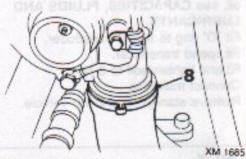
- Support vehicle on a suitable lift in 'wheel free' position.
- Remove air cleaner, see FUEL SYSTEM -Repairs.
- 3. Remove under belly panel, see BODY Repairs.



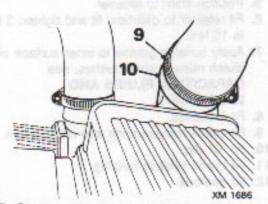
- Remove 3 screws securing turbocharger heat shield.
- 5. Remove heat shield.
- Remove cooling fan, motor and cowl assembly, see COOLING SYSTEM – Repairs.



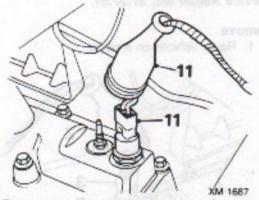
 Remove 2 bolts, turbocharger hose bracket to gearbox.



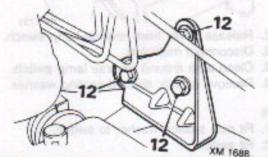
 Release clip; disconnect hose from turbocharger.



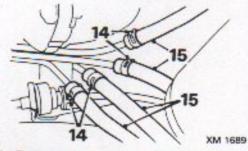
- Slacken clip; disconnect hose from intercooler; remove hose and bracket.
 Plug or blank off hose connections on
- turbocharger and intercooler.



 Release cover from reverse light switch; disconnect multiplug.



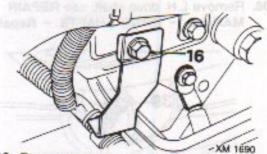
- Remove 3 bolts, bump rubber to longitudinal beam; remove bump rubber.
- 13. Position cloth to absorb fuel spillage.



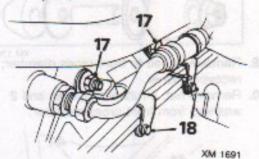
Release 4 clips, fuel hoses to pipes.
 Disconnect 4 hoses.
 CAUTION: Plug pipes to prevent ingress of dirt.

REPAIRS

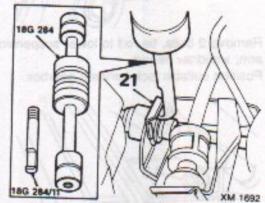




 Remove bolt, harness bracket to engine backplate.



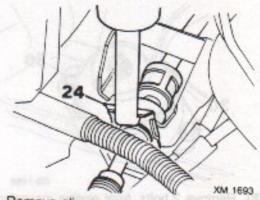
- Remove nut and bolt securing fuel pipes, move pipes aside to gain access to pipe clamps.
- 18. Remove 2 screws, recover clamps.
- 19. Move fuel pipes aside.



- 20. Fit adapter, tool 18G 284 11 to slide hammer, tool 18G 284.
- Remove clip, selector outer cable to gearbox bracket using tool 18G 284 and adapter 18G 284 – 11.
- Carefully prise selector inner cable off selector lever.

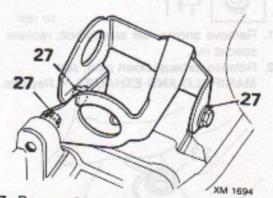
CAUTION: Ensure selector inner and outer cables are not subjected to excessive bending or damage to selector cable guide tube will result.

23. Withdraw selector cable from bracket.

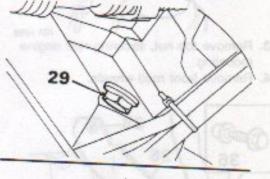


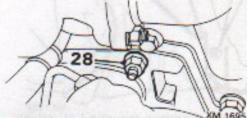
- Remove clip, crossover cable to gearbox bracket using tool 18G 284 and adapter 18G 284 - 11.
- Carefully prise crossover inner cable off lever.

CAUTION: Ensure crossover inner and outer cables are not subjected to excessive bending or damage to crossover cable guide tube will result. 26. Withdraw crossover cable from bracket.

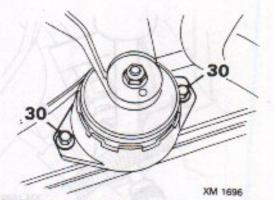


27. Remove 3 bolts, bracket to gearbox.

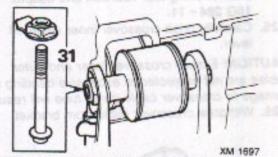




Remove nut securing top of gearbox.
 Withdraw bolt, top of gearbox.



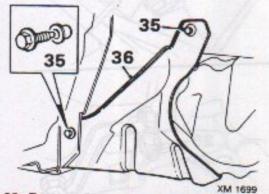
 Remove 2 bolts, front engine mounting to cross member.



- Remove engine rear steady bolt; recover special nut.
- Release exhaust down pipe, see MANIFOLD AND EXHAUST - Repairs.

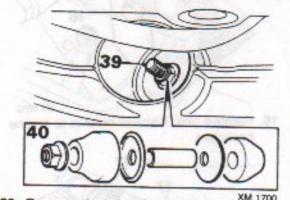


- Remove top nut, securing rear engine mounting.
- 34. Remove front road wheels.

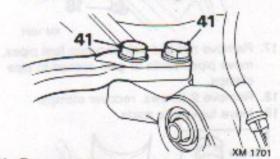


- Remove 3 screws securing L.H. splash shield, recover spacer from front screw.
- 36. Remove L.H. splash shield.
- Remove R.H. drive shaft, see DRIVE SHAFTS - Repairs.

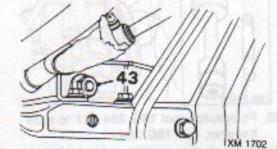
 Remove L.H. drive shaft, see REPAIR MANUAL - DRIVE SHAFTS - Repairs.



- Remove tie rod to front cross member; recover washer.
- Remove nut, 2 rubbers, spacer and 2 washers from front cross member.



- Remove 2 bolts, tie rod to lower suspension arm; withdraw tie rod.
- 42. Position suitable jack beneath gearbox.



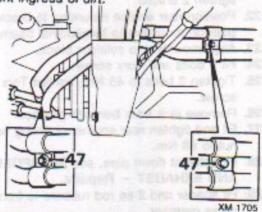
 Remove bottom nut securing rear engine mounting.



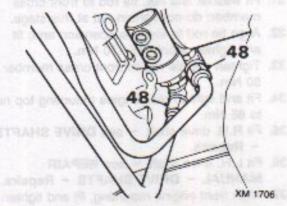
- Remove 3 bolts and Torx screw, rear engine mounting bracket to engine; remove rear engine mounting and bracket.
- 45. Position drain tin.

46 46 0) XM 1704

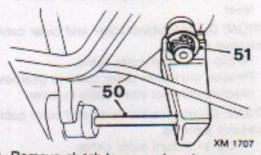
 Disconnect 2 hoses from oil cooler unions.
 CAUTION: Plug ends of hoses and unions to prevent ingress of dirt.



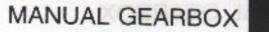
 Remove 2 screws, release 2 oil cooler pipe clamps from engine steady and starter support brackets.

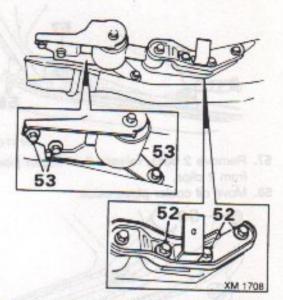


- Disconnect 2 oil cooler pipe unions from filter head.
- CAUTION: Plug unions to prevent ingress of dirt. 49. Remove 2 oil cooler pipes.

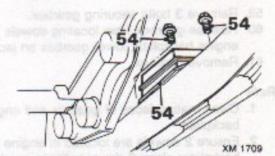


 Remove clutch lever push rod.
 Remove 'C' clip securing clutch release lever; remove lever from gearbox.

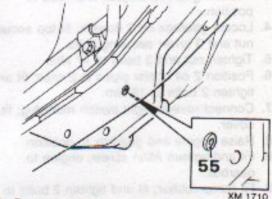




- Remove 3 bolts, steady bracket to engine backplate; release steady bracket from backplate.
- Remove 3 bolts, steady bracket to longitudinal beam and cross member: remove steady bracket assembly.

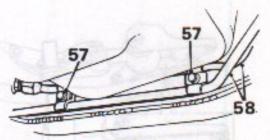


 Remove 2 bolts, bump rubber to longitudinal beam; remove bump rubber.



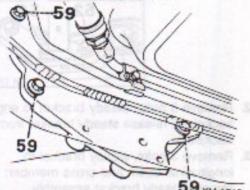
- Remove Allen screw, engine backplate to gearbox.
- Lower jack until sump reinforcing plate rests on longitudinal beam.

Note: Move engine and gearbox towards front of car during above operation to give clearance.



XM 1713

- 57. Remove 2 bolts, release 2 oil cooler pipes from 2 clips.
- 58. Move oil cooler pipes aside.



59 XM 1712

- 59. Remove 3 bolts securing gearbox.
- 60. Release gearbox from locating dowels in engine backplate; lower gearbox on jack.
- 61. Remove gearbox.

Refit

- 1. Clean mating faces of gearbox and engine backplate.
- 2. Ensure 2 dowels are located in engine backplate; clean 2 dowel holes in gearbox mating face.
- 3. Position gearbox on jack and raise to position.
- 4. Locate gearbox on 2 dowels; fit top securing nut and 3 lower securing bolts.
- 5. Tighten nut and 3 bolts to 47 Nm.
- 6. Position 2 oil cooler pipes in 2 clips; fit and tighten 2 bolts to 15 Nm.
- 7. Connect reverse light switch multiplug; fit cover.
- 8. Raise engine and gearbox to position.
- 9. Fit and tighten Allen screw, engine to gearbox.
- 10. Fit bump rubber; fit and tighten 2 bolts to 20 Nm.
- 11. Position steady bracket assembly to engine backplate; fit and tighten 3 bolts to 82 Nm.
- 12. Align steady bracket to longitudinal beam and cross member; fit and tighten 3 bolts to 82 Nm.
- 13. Clean splines of clutch release lever.
- 14. Fit clutch release lever; secure with 'C' clip. 15. Apply grease to clutch lever end of push rod, see CAPACITIES, FLUIDS AND

- 16. Position push rod to slave cylinder, depress slave cylinder piston with push rod until push rod can be engaged in clutch release lever.
- 17. Position oil cooler feed and return pipes to filter head; do not tighten unions at this stage.
- 18. Position feed and return pipes to brackets.
- 19. Position 2 clamps, fit and tighten 2 clamp bolts to 15 Nm.
- 20. Tighten feed and return pipe unions.
- 21. Connect 2 hoses to oil cooler unions; tighten 2 unions.
- 22. Position rear engine mounting to bracket; position mounting to longitudinal beams.
- 23. Align mounting to cylinder block.
- 24. Fit 3 bolts and Torx screw.
- 25. Tighten 3 bolts to 45 Nm; tighten Torx screw.
- 26. Remove jack from beneath gearbox.
- 27. Fit and tighten rear engine mounting bottom nut to 85 Nm.
- 28. Fit exhaust down pipe, see MANIFOLD AND EXHAUST - Repairs.
- 29. Fit spacer and 2 tie rod rubbers to front cross member.
- 30. Fit washer to tie rod; position tie rod to front cross member.
- 31. Fit washer and nut, tie rod to front cross member; do not tighten nut at this stage.
- 32. Align tie rod to lower suspension arm; fit and tighten 2 bolts to 170 Nm.
- 33. Tighten nut, tie rod to front cross member to 90 Nm.
- 34. Fit and tighten rear engine mounting top nut to 85 Nm.
- 35. Fit R.H. drive shaft see DRIVE SHAFTS - Repairs.
- 36. Fit L.H. drive shaft see REPAIR MANUAL - DRIVE SHAFTS - Repairs.
- 37. Align front engine mounting, fit and tighten 2 bolts to 45 Nm.
- 38. Fit gearbox bolt above front engine mounting bracket; tighten bolt to 50 Nm.
- 39. Position selector outer cable to gearbox bracket; connect inner cable to selector lever.

CAUTION: Do not subject inner and outer cables to excessive bending.

- 40. Fit clip to secure outer cable.
- 41. Position crossover outer cable to gearbox bracket; connect inner cable to lever.

CAUTION: Do not subject inner and outer cables to excessive bending.

- 42. Fit clip to secure outer cable.
- 43. Position crossover cable bracket to gearbox, fit and tighten 2 bolts to 10 Nm.
- 44. Position fuel pipes, fit 2 brackets, 2 clamps and 2 screws.
- 45. Tighten 2 screws.

LUBRICANTS.



- Align harness bracket to engine backplate; fit and tighten nut and bolt.
- Connect 4 fuel hoses, fit and secure 4 hose clips.
- Position bump rubber to longitudinal beam; fit and tighten 3 bolts to 20 Nm.
- Top up gearbox oil level, see Adjustments - oil level check and top up.
- Connect hose to turbocharger and intercooler; fit and tighten 2 clips.
- Align turbocharger hose bracket to gearbox; fit and tighten 2 bolts to 15 Nm.
- Fit cooling fan, motor and cowl assembly, see COOLING SYSTEM - Repairs.
- Fit under belly panel, see BODY Repairs.
- Fit turbocharger heat shield; fit and tighten 3 screws.
- 55. Fit air cleaner, see FUEL SYSTEM -Repairs.
- 56. Position L.H. splash shield.
- Fit spacer to front securing screw; fit and tighten 2 screws to secure splash shield.
- 58. Fit road wheel and tighten nuts to 110 Nm.
- 59. Remove vehicle from ramp.
- Bleed fuel system if necessary, see FUEL SYSTEM - Adjustments.

TOROUE SETTINGS

1

Hoad wheel huts	110 Mm
Top gear lever housing bolts	. 110 Nm
Input shaft oil soal rotainer belte	. 25 Nm
Input shaft oil seal retainer bolts	. 15 Nm
	Q Man
Gearbox securing nut and bolts	47 bim
Oil cooler pipes bolts	15 11-
Bump rubber bolts	. 15 Nm
	. 20 Nm
Engine steady bracket bolts	. 82 Nm
Steady bracket to longitudinal beam bolts	82 Nm
read and return pipe clamp polts	1E blm
Rear engine mounting to engine bolts and torx screw	. 10 19/11
Bear engine mounting bottom out	45 Nm
Rear engine mounting bottom nut	. 85 Nm
Lower suspension arm tie rod	. 170 Nm
Front crossmember tie rod nut	DO NIM
Rear engine mounting top nut	OE Nem
Front engine mounting bolts	. 65 Nm
Geerbox holt about feet and in	. 45 Nm
Gearbox bolt above front engine mounting	50 Nm
Crossover cable bolts	10 blm
Turbocharger hose bracket to gearbox bolts	1E Nor
	15 MILL

TOOL NUMBERS

18G 134	Basic tool
18G 134BD	Basic tool adapter
18G 284	Slide Hammer (basic tool)
18G 284 - 11	Slide Hammer adapter