

DRIVE SHAFTS

CONTENTS

Repairs

	Page
Drive shaft	1
Drive shaft outer joint	2
Drive shaft damper, inner joint and gaiter	3

Data, Torque & Tools

	Page
Torque Settings	1
Tool Numbers	1





DRIVE SHAFT

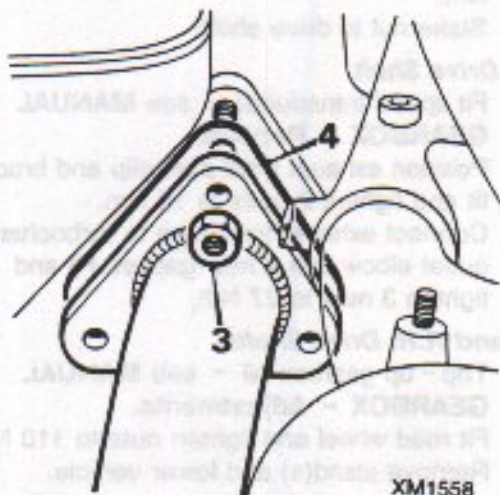
Service Repair No. 47.10.01

Remove

1. Raise front of vehicle.

WARNING: Support on safety stands.

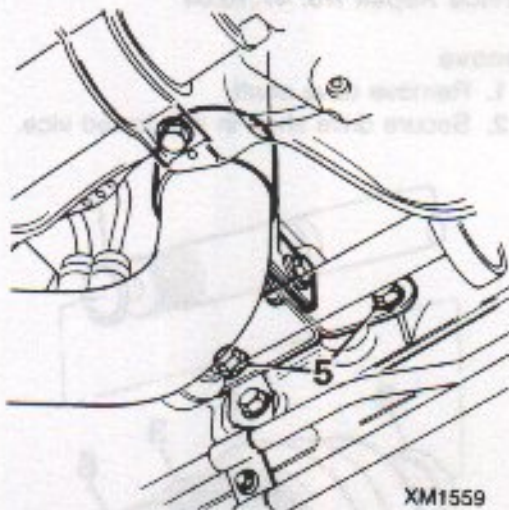
2. Remove road wheel(s).



XM1558

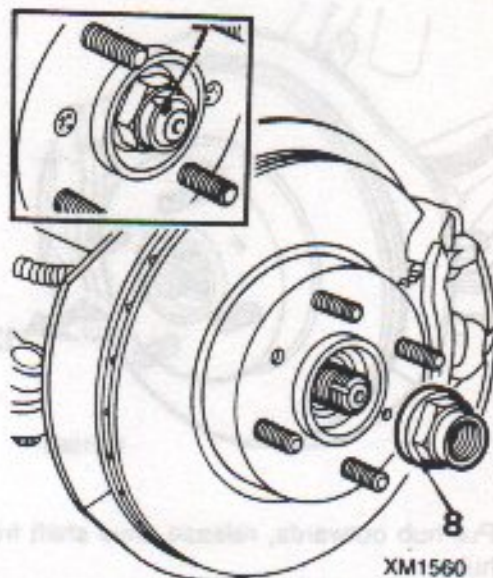
R.H. Drive shaft

3. Remove 3 nuts, exhaust down pipe to turbocharger elbow; disconnect pipe.
4. Remove and discard gasket.



XM1559

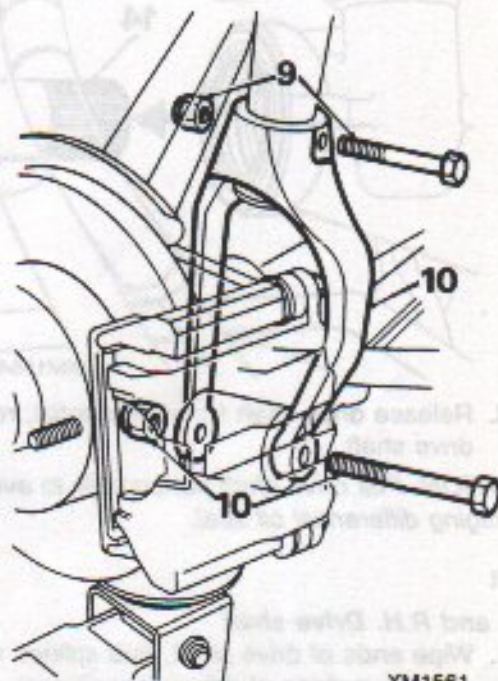
5. Remove 2 bolts, exhaust down pipe clip bracket to cylinder block; release bracket.
6. Remove speed transducer - see **MANUAL GEARBOX - Repairs.**



XM1560

L.H. and R.H. Drive Shaft

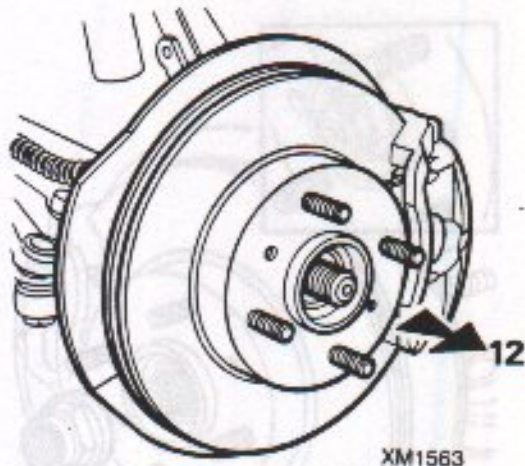
7. Release staking on drive shaft nut.
8. With an assistant depressing the brake pedal, remove drive shaft nut. Discard drive shaft nut.



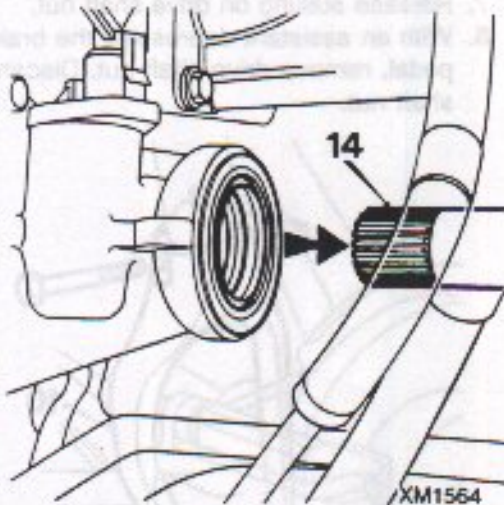
XM1561

9. Remove nut and bolt, suspension fork to shock absorber.
10. Remove nut and bolt, suspension fork to lower arm; remove suspension fork.
11. Disconnect lower arm from ball joint, see **REPAIR MANUAL - FRONT SUSPENSION - Repairs - Hub bearing and lower ball joint.**

DRIVE SHAFTS



12. Pull hub outwards, release drive shaft from hub.
13. Position drain tin beneath differential housing.



14. Release drive shaft from differential; remove drive shaft.

CAUTION: Pull drive shaft horizontally to avoid damaging differential oil seal.

Refit

L.H. and R.H. Drive shaft

1. Wipe ends of drive shaft, hub splines and running surface of differential oil seal.
2. Lubricate running surface of differential oil seal with clean gearbox oil - see **CAPACITIES, FLUIDS AND LUBRICANTS**.
3. Insert drive shaft in differential and push fully home.

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

4. Pull hub outwards, connect drive shaft to hub.
5. Connect lower arm to ball joint, see **REPAIR MANUAL - FRONT SUSPENSION - Repairs - Hub bearing and lower ball joint**.

6. Position suspension fork to lower arm and shock absorber, fit 2 nuts and bolts. Tighten nuts to:
Suspension fork to lower arm - 65 Nm.
Suspension fork to shock absorber - 70 Nm.
7. Fit a new drive shaft nut. With an assistant depressing brake pedal; tighten nut to 290 Nm.
8. Stake nut to drive shaft.

R.H. Drive Shaft

9. Fit speed transducer - see **MANUAL GEARBOX - Repairs**.
10. Position exhaust front pipe clip and bracket, fit and tighten 2 bolts to 15 Nm.
11. Connect exhaust front pipe to turbocharger outlet elbow use a new gasket. Fit and tighten 3 nuts to 27 Nm.

L.H. and R.H. Drive Shafts

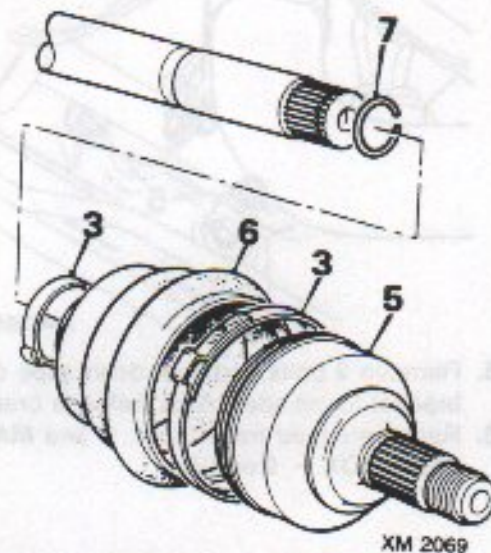
12. Top-up gearbox oil - see **MANUAL GEARBOX - Adjustments**.
13. Fit road wheel and tighten nuts to 110 Nm.
14. Remove stand(s) and lower vehicle.

DRIVE SHAFT OUTER JOINT

Service Repair No. 47.10.04

Remove

1. Remove drive shaft.
2. Secure drive shaft in soft jawed vice.



3. Remove and discard 2 clips securing gaiter.
4. Slide gaiter along drive shaft.
5. Pull outer joint off drive shaft.
6. Remove gaiter.
7. Remove spring clip from drive shaft; discard clip.
8. If original outer joint is to be refitted, degrease joint using suitable solvent.



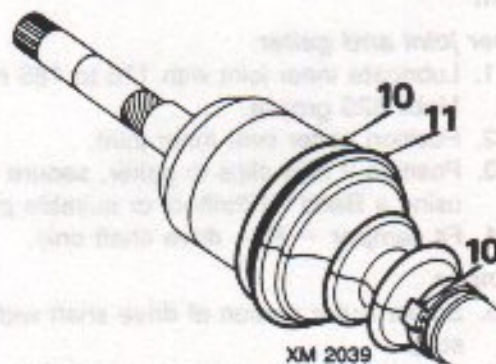
- Remove drive shaft from vice.

Refit

- Secure drive shaft in soft jawed vice.
- Clean splines of drive shaft and outer joint.
- Position 2 new clips and gaiter on drive shaft.
- Fit new spring clip to drive shaft.

CAUTION: Ensure spring clip is correctly seated in groove.

- Lubricate outer joint with 80 to 100 ml Mobil 171A - M3 grease.
- Fit outer joint to drive shaft.
- Position gaiter over outer joint.
- Position 2 clips to gaiter, secure clips using a Band - it thriftool or suitable pincers.
- Remove drive shaft from vice.
- Fit drive shaft.



- Remove and discard 2 clips securing gaiter.
- Slide gaiter off drive shaft.
- If original inner joint is to be refitted, degrease joint using suitable solvent.

DRIVE SHAFT DAMPER, INNER JOINT AND GAITER

Service Repair No. Damper - 47.10.33

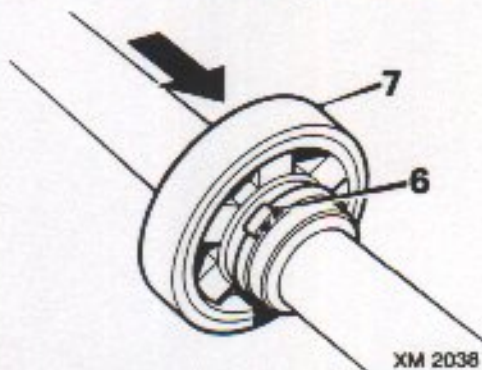
Service Repair No. Inner joint and gaiter - 47.10.24

Remove

- Remove drive shaft.
- Remove drive shaft outer joint.
- Remove dirt and rust from drive shaft; use medium grade emery cloth; degrease shaft using suitable solvent.

Damper

- Smear outer portion of drive shaft with liquid soap.
- Secure drive shaft in soft jawed vice.



- Remove and discard clip securing damper.
- Using a soft metal drift, drive damper off drive shaft; discard damper.
- Remove drive shaft from vice.

Inner joint and gaiter

- Remove damper - R.H. drive shaft only.

DRIVE SHAFTS

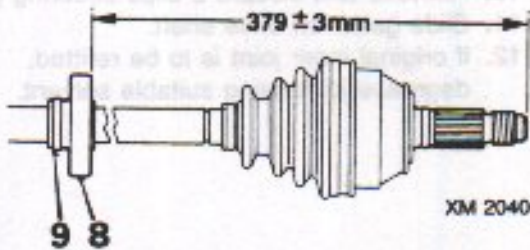
Refit

Inner joint and gaiter

1. Lubricate inner joint with 175 to 185 ml Mobil 525 grease.
2. Position gaiter over inner joint.
3. Position 2 new clips to gaiter, secure clips using a Band - it thirtfool or suitable pincèrs.
4. Fit damper - R.H. drive shaft only.

Damper

5. Smear outer portion of drive shaft with liquid soap.
6. Secure drive shaft in soft jawed vice.



7. Measuring from end of drive shaft, make suitable alignment mark at a distance of 379 ± 3.0 mm from end of shaft.

CAUTION: Large flange of damper must face towards inner joint.

8. Using a suitable piece of tubing as a mandrel, drive damper on to drive shaft until damper is aligned with mark.
9. Position new clip to damper, secure clip using a Band - it thirtfool or suitable pincèrs.
10. Remove drive shaft from vice; clean liquid soap from shaft.

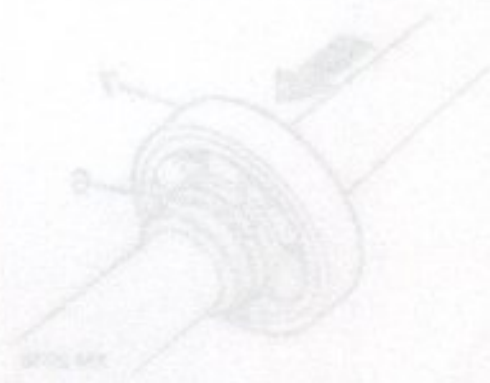
Damper, Inner joint and gaiter

11. Fit drive shaft outer joint.
12. Fit drive shaft.

Remove drive shaft from vice.
1. Secure drive shaft in soft jawed vice.
2. Clean surface of drive shaft and outer joint.
3. Position 2 new clips and gaiter on drive shaft.
4. Fit new spring clip to drive shaft.
CAUTION: Ensure spring clip is correctly seated in groove.
5. Lubricate outer joint with 80 to 100 ml Mobil 171A - M3 grease.
6. Fit outer joint to drive shaft.
7. Position gaiter over outer joint.
8. Position 2 clips to gaiter, secure (this using a Band - it thirtfool or suitable pincèrs).
9. Remove drive shaft from vice.
10. Fit drive shaft.

DRIVE SHAFT DAMPER, INNER JOINT AND GAITER

Service Repair No. Damper - 81.10.24
Service Repair No. Inner joint and gaiter - 81.10.24
Remove
1. Remove drive shaft.
2. Remove drive shaft outer joint.
3. Remove bolt and nut from drive shaft, use medium grade motor oil, degrease shaft using suitable solvent.
Damper
4. Smear outer portion of drive shaft with liquid soap.
5. Secure drive shaft in soft jawed vice.



6. Remove and discard the securing thirtfool.
7. Using a soft metal bar, drive damper off drive shaft through damper.
8. Remove drive shaft from vice.
Inner joint and gaiter
9. Remove Damper - R.H. drive shaft only.



TORQUE SETTINGS

Suspension fork shock absorber nut	70 Nm
Suspension fork lower arm nut	65 Nm
Drive shaft nut	290 Nm
Exhaust down pipe clip bolts	15 Nm
Exhaust down pipe turbocharger outlet elbow	27 Nm
Road wheel nuts	110 Nm
Lower ball joint nut	100 Nm

TOOL NUMBERS

18G 2 Puller