

Plate - drive - automatic

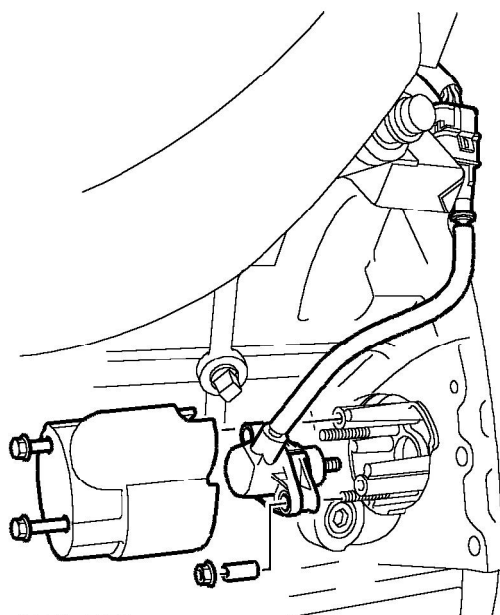
➔ 12.53.13

Remove

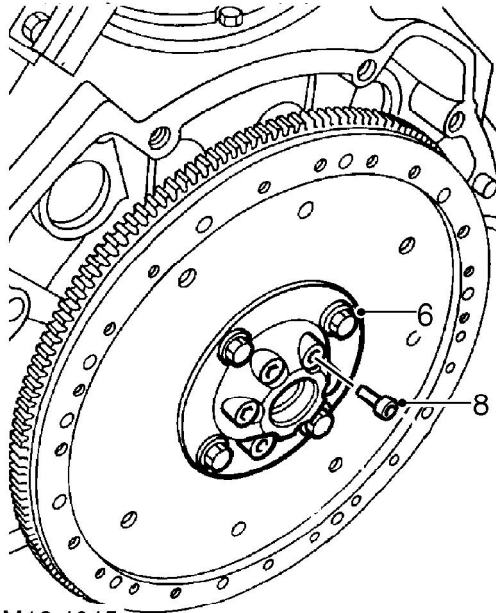
Note: Later engines are fitted with a modified starter ring gear which incorporates the reluctor plate, spacer and hub. The modified ring gear may be fitted as a replacement to early engines.

1. Remove automatic gearbox.
 ➔ **AUTOMATIC GEARBOX - ZF4HP22 - 24, REPAIRS, Gearbox - convertor and transfer gearbox - V8.**

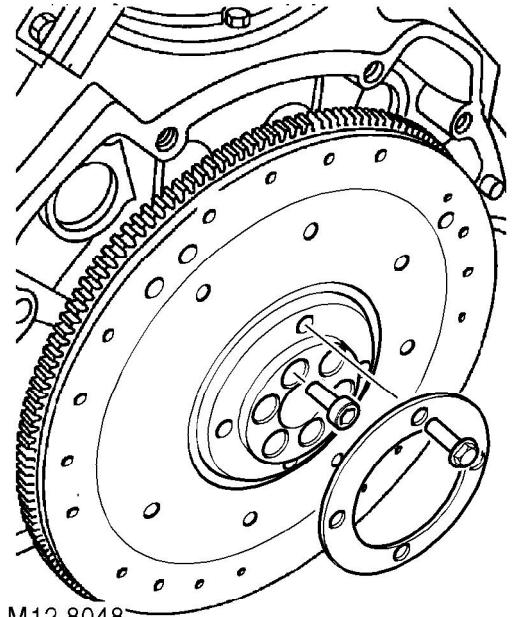
9. Fit alignment tool **LRT-12-001** to spigot bearing in crankshaft.
10. Fit drive plate onto tool **LRT-12-001** ensure side marked 'flywheel side' is towards flywheel.
11. Fit clutch cover and locate on dowels.
12. Fit clutch cover bolts and tighten in diagonal sequence to 40 Nm (30 lbf.ft).
13. Fit gearbox assembly.
 ➔ **MANUAL GEARBOX - R380, REPAIRS, Gearbox - V8.**



2. Remove 2 bolts securing CKP sensor cover.
3. Remove CKP sensor cover.
4. Remove 2 nuts securing CKP sensor.
5. Remove CKP sensor.



M12 4845



M12 8048

6. **Early engines:** Remove 4 bolts securing drive plate clamp ring and remove ring.
7. **Early engines:** Remove drive plate from hub.
8. **Early engines:** Remove 6 Allen bolts securing hub and starter ring gear, remove hub, starter ring gear and collect spacer.

On early engines, balance weights are on engine side of drive plate; replacement drive plates will have balance weights on torque converter side of drive plate.

9. **Later engines:** Remove 4 bolts securing drive plate clamp ring and remove ring.
10. **Later engines:** Remove drive plate.
11. **Later engines:** Remove 6 Allen bolts securing starter ring gear to crankshaft; remove starter ring gear.

Refit

1. **All engines:** Ensure bolt holes in crankshaft are clean and dry.
2. **All engines:** Clean all components
3. **All engines:** Check that drive plate is free from cracks and distortion.
4. **Early engines:** Fit hub, starter ring gear and spacer to crankshaft, fit Allen bolts and tighten to 78 Nm (58 lbf.ft).
5. **Early engines:** Fit drive plate and clamp ring, fit bolts and tighten to 45 Nm (33 lbf.ft).
6. **Later engines:** Fit starter ring gear, fit Allen bolts and tighten to 85 Nm (63 lbf.ft).
7. **Later engines:** Fit drive plate and clamp ring, fit bolts and tighten to 45 Nm (33 lbf.ft).
8. Clean CKP sensor and mating face.
9. Fit crankshaft sensor and tighten nuts to 6 Nm (5 lbf.ft).
10. Fit CKP sensor cover and tighten bolts to 6 Nm (5 lbf.ft).
11. Fit CKP sensor multiplug to bracket.
12. Fit automatic gearbox.
 - 👉 **AUTOMATIC GEARBOX - ZF4HP22 - 24, REPAIRS, Gearbox - convertor and transfer gearbox - V8.**