

[Select Vehicle](#) | [New TSBs](#) | [Technician's Reference](#)Component Search:  [Conversion Calculator](#)**1994 Land Rover Discovery V8-3.9L**[Vehicle Level](#) → [Engine, Cooling and Exhaust](#) → [Engine](#) → [Ignition Timing](#) → [Adjustments](#) → [Dynamic Timing](#) ←**Dynamic Timing**[Notes](#)**EQUIPMENT REQUIRED**

- Calibrated Tachometer
- Stroboscopic lamp

ADJUST

1. It is essential that following procedures are adhered to. Inaccurate timing can lead to serious engine damage and additionally create failure to comply with emission regulations. If timing is being checked in vehicle, air conditioning compressor must be disengaged.
2. On initial engine build, or if [distributor](#) has been disturbed for any reason, ignition timing must be set statically to **6°BTDC** . **NOTE:** This approximate setting is made only to ensure that engine may be started. **CAUTION:** On no account must engine be started before this operation is carried out.
3. Connect timing lamp and tachometer to engine following manufacturer's instructions.
4. Disconnect vacuum hose from [distributor](#).
5. Start engine. With no load, and without exceeding **3,000 rpm** , run engine until normal operating temperature is reached (Thermostat open). Check that engine idles within tolerance specified.
6. [Idle speed](#) for timing purposes must not exceed **800 rpm** .
7. Run engine at [idle speed](#) and check timing using stroboscope light on timing marker and pointer. **WARNING: Keep hands and equipment away from belt** .
8. If timing is not as specified, switch off engine. Loosen [distributor](#) clamp bolt and turn distributor to advance or retard ignition as necessary. Tighten clamp bolt, start engine and recheck timing. **WARNING: Personal injury may result if an attempt is made to adjust distributor while engine is running** .
9. Upon completion, switch off engine and retighten [distributor](#) clamping bolt securely. Recheck timing to ensure retightening has not disturbed distributor position.
10. Refit vacuum hose.
11. Disconnect stroboscopic timing lamp and tachometer from engine.