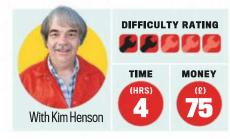


Reliant Scimitar GTE

How to keep your Essex V6-engined tourer in perfect condition



Model evolution

The GT-bodied Scimitar SE4 was launched in 1964, powered initially by a 2.6-litre straight six from the Ford Zephyr/Zodiac but gaining an Essex V6 in 1966 (in 3.0-litre form, with a 2.5 offered later as an option). The GTE SE5 appeared in 1968 with a hatchback and revised suspension. The longer and wider SE6 followed in 1975. The SE6A had revised brakes and suspension. The SE6B of 1980

featured Ford's 2.8-litre Cologne V6, as did the convertible SE8 and the Middlebridge cars built from 1988 to 1990.

What's it like to work on?

All Scimitars feature a straightforward front-engined rear-wheel drive layout, a GRP body with a separate chassis and uncomplicated Ford mechanical parts. They're simple to work on in almost every respect, with decent access to most mechanical components. There's handy access from within the front wing voids to some parts, including the oil filter, exhaust manifolds and steering column joints.

This applies to...

This guide focuses on Essex-powered SE5 and SE6 models, though many aspects apply to the SE4 and Cologne-powered cars.

There are some mechanical differences between early and late models, specifically the braking system (Girling became Lockheed), automatic transmission (a Ford unit initially, then two types of Borg-Warner) and axle design. Use this guide in conjunction with a manual with data that applies to your specific model. Reliant's own manuals are particularly good.

Parts and support

Ford mechanicals mean that most parts are readily available at very reasonable prices. Numerous clubs and web forums provide information and enthusiastic support.

Thanks to Scimitar enthusiasts Mark Wade, Helene Adams and John Weaver. John Copleston of Phoenix Classic Cars (01202 622808, phoenix-classics.co.uk).



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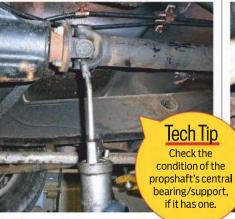
Front suspension Check the wishbone bushes for deterioration and play. Inspect their mountings on the chassis and their surroundings for rust. Ensure the boot of the upper balljoint is watertight.

Check the upper and lower bushes of the coil-over strut, inspect the spring for damage and the shock absorber for leaks. Make sure the anti-roll bar links and bushes are in good condition.

Tech Tip Regrease the wheel bearings every 12,000 miles.

Wheel bearings and hubs Support the car with the front wheels hanging. Spin each front wheel and listen/feel for rough bearings. Rock the wheel vertically to check for play in the wheel bearings. Adjust, if

necessary, until play is just detectable. Use a lever to move the wheel up and down, while an assistant looks/feels for play in the lower trunnion and upper balljoint of the hub assembly.



Grease points Sparingly apply grease to the balljoints and trunnions if nipples are fitted. Check for play in the splined joint and universal joints of the propshaft and apply grease if they're fitted with nipples. Grease the nipples on the handbrake cable, too.



Steering Make sure the steering rack and trackrod end gaiters are in good condition. Check the steering column support and its universal joints for play. Rock each front wheel horizontally and look/feel for play in the steering rack and the trackrod ends.



Rear suspension Check the Watt's linkage, trailing arm and shock absorber bushes for deterioration and play. Check the springs for rust and damage and the shock absorbers for leaks. Sparingly apply grease to the rear hubs: there's one nipple per side.



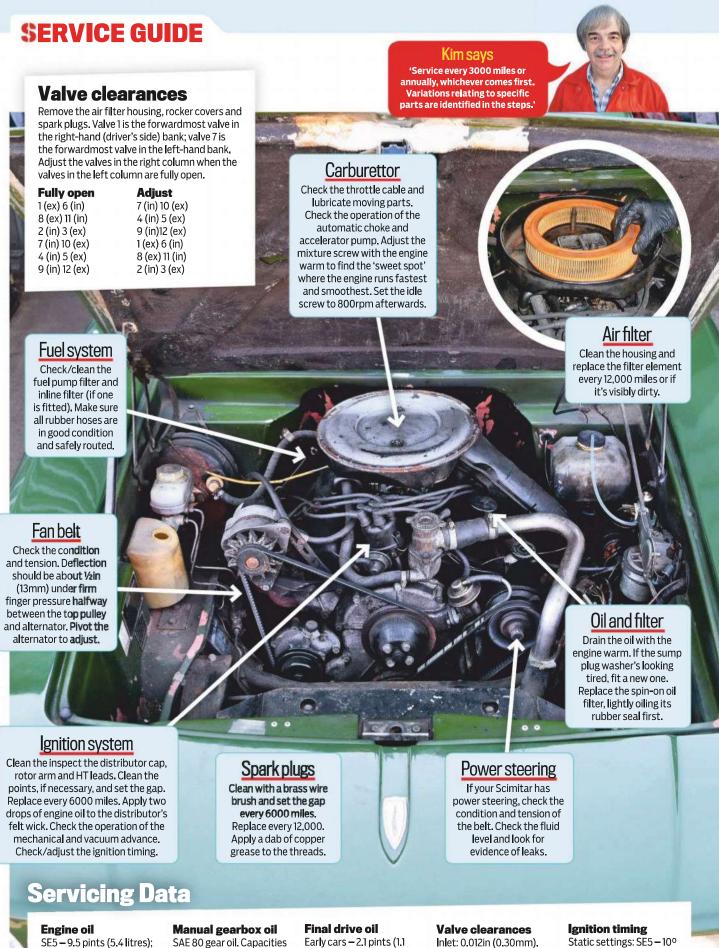
Brake hydraulics Check all brake pipes for rust, damage and insecurity. Check all flexible hoses for deterioration and damage. Inspect the master cylinder for leaks. Ensure the servo functions and its vacuum hose is in good order. Replace the brake fluid every two years.



Front disc brakes Check the pads for wear and deterioration. If they're worn unevenly, find the cause. Inspect the brake discs for wear, scoring, pitting and damage. Make sure the calipers are firmly attached, the pistons move freely and their dust boots are intact.



Rear drum brakes Turn the square adjuster on the backplate anticlockwise. Remove the drum securing screws and drum. Check the cylinder for leaks and make sure its piston moves freely. Clean the drums and shoes with brake cleaner and inspect for wear.



SE5 - 9.5 pints (5.4 litres); SE6 9.9 pints (5.6 litres). Good quality 20w50.

Auto gearbox fluid

Ford C3 – 13.2 pints (7.5 litres); Borg-Warner - 11.2 pints (6.4 litres).

SAE 80 gear oil. Capacities vary: check your manual.

Cooling system

SE5 - 20.0 pints (11.4 litres); SE6 - 17.0 pints (9.7 litres). Ethylene glycol (blue) antifreeze mix.

Early cars - 2.1 pints (1.1 litres); later car - 3.5 pints (2.0 litres). SAE 90 gear oil.

Power steering fluid Ford 'Type F' ATF.

Points gap

0.025in (0.64mm).

Inlet: 0.012in (0.30mm). Exhaust: 0.020in (0.50mm). Set cold.

Spark plugs

Gap: 0.023in (0.60mm). Motorcraft AGR22 or equivalent.

BTDC; SE6 - 14º BTDC.

Firing order

1-4-2-5-3-6.-

Tyre pressures

24psi front and rear for standard 185 R14 tyres.

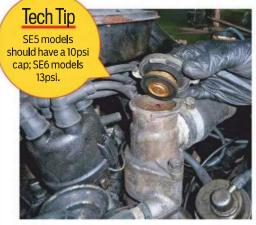


Handbrake Clean and lubricate all pivots and moving parts of the mechanism. Adjust if lever travel is excessive. Early cars have twin adjusters at the cable ends (tighten them evenly). Later cars have a single adjuster at the base of the lever, accessed from underneath the car.



10 Look for signs of leaks from the pinion oil seal (and elsewhere). Remove the oil filler plug with the car level and make sure it's filled to the base of the aperture. Top it up if necessary. Drain and replace the oil every 12,000 miles, ideally with the axle still warm after a run.





Cooling system Check the radiator, cap, hoses and heater for deterioration and signs of leaks. Drain the coolant, reverse-flush the system and refill every two years. Test the thermostat at the same time. Later cars have an electric fan: make sure it turns on and off correctly.



Chassis and body Look out for cracks and crazing in the GRP body, particularly around the chassis mounts. Check all parts of the chassis for rust, paying particular attention to the front sections, suspension mounts, outriggers and the tubes in front of the rear wheels. Rustproof regularly.



Gearbox Automatic: Check the fluid level using the dipstick towards the rear of the engine bay. Procedures differ between models, so consult your manual. Replace the fluid

periodically. Remove the sump to drain and replace with a new gasket. Manual: Make sure it's filled with oil to the base of the filler plug aperture (left-hand side on early gearboxes;

right-hand side on later ones). Replace the oil with the gearbox warm every 12,000 miles. Hydraulic clutch: check for leaks. Cable clutch: check cable adjustment.

OUICK CHECKS



Wheels and tyres Check the wheels for damage and the tyres for gashes, cracks, bulges and excessive tread wear. Investigate if wear is uneven.

Electrics Clean the battery terminals and clamps. Look for loose, dirty or corroded connections and damaged or deteriorating cable insulation. Thanks to the GRP body, good earths are paramount.

Fuel system Ensure the tank's rust-free and securely mounted. Check all underbody pipework for deterioration and insecurity. Check the fuel gauge sender's wiring: its under-car location makes it vulnerable to the elements.

Exhaust Check for leaks and corrosion. Make sure all the mounts are in good condition.

Interior Test all switches, lamps and instruments. Renew worn clutch and brake pedal rubbers. Check that the seat belts are in good condition and operate correctly.

Wipers Make sure the wiper blades are in good condition. Sparingly lubricate the spindles with oil.

Hinges & catches Sparingly lubricate all hinges and catches with oil or aerosol grease. Wipe off excess.

