Somewhere in Warwickshire, a group of enthusiasts are accumulating a collect to none, as John Blackman reports. All photos by the author



Inner of the CMV 'understatement of the month' competition (and the editor's decision is final) goes to Andrew Baker of the Alvis Fighting Vehicle Society. When asked if he and his compatriots had a sizeable collection of Alvis CVR(T) (Combat Vehicle Reconnaissance Tracked) series vehicles, he replied, 'we've got a few'. Andrew, modesty is all very well in its' place, but 'few' doesn't cover it. You've enough Alvis armour to declare independence for Warwickshire, and stand a good chance of defending the borders.

Post-war vehicles are becoming more popular, and you don't need a degree in economics to work out why - cost and availability. Moreover, you are more likely to find someone who worked on them while they were in service, to assist with advice or more. Well, that's the theory, but first you have to find that 'someone'. When Andrew Baker restored his first CVR(T), he went it alone, which is no mean feat.

Andrew, a mechanic by trade, can trace the roots of his infatuation with military vehicles back to when he attended a Land Rover off-roading weekend at Bovington, many years ago. 'On the same course were guys with heavy vehicles,' he recalls, 'Bedford trucks and things, and they were using an old tank to pull the vehicles out of the mud. I watched them and thought it looked

ecton of Alvis fighting vehicles second



A rare line-up of Alvis firepower; Scorpion, Sabre, Scimitar, and Scorpion 90.

interesting. A few years later, I bought a Stalwart and started doing heavy vehicle trials in it. Then the dealer I bought the Stalwart from, got an Abbot in stock, which I also bought... then he got an FV432 and 434, and I ended up getting those as well, plus various other vehicles.

'When I got married, they became a pain to maintain, and I sold most of them off. But I'd always wanted a CVR(T), which at that

time were rare. So about five years ago, I swapped my last two vehicles, an FV434 and Stalwart, for the wrecked hull of a Scorpion that had sat in a field for about eight years.

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I stripped it all down, rebuilt the engine - rebuilt everything in fact. Was it a difficult job? Yes, I didn't know anyone who could

help, nobody had any parts, and I'd never even driven a CVR(T). It wasn't until the Scorpion was finished and I took it to a local show in 2002, that I met the others - they were there with their diesel

The 'others' Andrew refers to are Mick Browning, Lew Hall and Keith Gossage, all ex-Alvis men who now work at BAe Systems in the old GKN plant at Telford. Their interest in Alvis



basically a surplus FV721 Fox armoured-car turret mounted on a surplus Scorpion hull.

## e CVR(T) RAN

The CVR(T) range came from a requirement formulated during the 'sixties that called for a vehicle to replace existing reconnaissance vehicles, including the Ferret, Saladin and Saracen, but that would be faster, lighter and air-portable. Initially it was hoped that one vehicle would be capable of fulfilling three roles: reconnaissance; anti-tank; and fire support. However, design studies revealed that such a vehicle would be too heavy to be air-portable, and it was therefore decided that a family of tracked vehicle be produced. They would be based on the same running gear, but specialise in particular roles.

In September 1967, following development work at the Fighting Vehicles Research and Development Establishment at Chertsey, in Surrey, Alvis Limited of Coventry were awarded the contract to produce 17 prototypes of what was to become the FV101 Scorpion. The first prototype appeared in January 1969, with the rest following in a little over a year. Extensive trials were conducted and, in May 1970, Alvis were awarded a production contract for 2000 vehicles. The first production FV101 Scorpion was delivered in January 1972.

The Scorpion, and the rest of the CVR(T) family that soon followed, made much use of welded aluminium-alloy armour, the thickness of which reduced the need for internal strengthening and kept the vehicle's weight to a minimum. The engine used was a Jaguar 4.2-litre J60, de-rated from 265hp to 192hp (and subsequently de-rated further during service).

The Scorpion was armed with a 76mm L23A1 gun. The next CVR(T) variant to enter service was the FV107 Scimitar - basically the same vehicle as the FV101 Scorpion, but armed with a 30mm Rarden gun in a modified turret. It was intended to complement the Scorpion's fire-support role by dealing with lightly-armoured hostile vehicles.

The FV102 Striker anti-tank guided weapons carrier, and FV103 Spartan armoured personnel carrier, share very similar box-like bodies built on the basic Scorpion hull and running gear. Spartan, which can carry five men in addition to its two-man crew, entered service in 1976. Striker carries five Swingfire wire-guided anti-tank missile in a ready-to-fire bin at the back of the vehicle, with a further five missiles stored internally. The bin is elevated to 35° for firing, but when lowered, the vehicle is all but indistinguishable from Spartan. Firing can be controlled either from inside the vehicle, or remotely from outside. Originally, missile flight was controlled manually via a joystick, but an upgraded semiautomatic system has since been installed whereby the operator has only to sight the target.

The FV104 Samaritan armoured ambulance and FV105 Sultan command post vehicle, also share a similar body, but of a higher profile as befits their role and the need for additional interior space. Last of the original CVR(T) family to go into production (in 1979) was the FV106 Samson armoured recovery vehicle, which also made use of the Striker/Spartan box-like hull. However, in 1995 the Sabre was introduced into service. This hybrid vehicle featured surplus FV721 Fox armoured-car turrets, mounted on surplus Scorpion hulls, to produce something akin to a Scimitar, but with a lower profile.

Also produced by Alvis, but not taken into service, was the Streaker high-mobility carrier. Only two were produced, and Andrew Baker has one. The other virtually unique vehicle within the AFV Society group is an Alvis Stormer. This is essentially a larger (it has an extra road-wheel on each side) modernised version of the CVR(T). In service with the British Army is a version fitted with a roof-mounted, eight-round, Starstreak high velocity missile-launcher.

Right: Here the Striker's Swingfire missile-bin is shown elevated into the 'ready' position Below right: This FV102 Striker is owned by AFV Society member Richard Morris and, as a result of countless hours of restoration work, is probably in better condition now than it ever was while in service.

painted exactly the same - and it certainly gets noticed now!'

Many of the group's other vehicles originated from military sales, such as Withams. It seems that people buy CVR(T)s to play with, thinking they can look after them, and when they discover it isn't quite so easy, get rid of them. Mick Brown is a development fitter, a job that used to involve testing new Alvis models to destruction. Now that civilians maintain much of the British Army's stock of vehicles, Mick spends most of his time travelling around the UK repairing, rather than trying to destroy, CVR(T)s. Either way, he and his colleagues know a thing or two about Alvis fighting vehicles.

Ask about CVR(T) problem areas and two in particular will be cited - the gearbox and the engine. 'We strip and rebuild CVR(T) gearboxes, Mick Browning says. "It's a rare skill, but one of the guys who was an expert at Alvis, and who has since retired, lives just down the road and comes and helps us. Andrew is his apprentice!

Although the gearbox is so complicated, the old Jaguar engines are probably the weakest link. When they first came out, the Jaguar engine was rated at 200hp and revved to about 6000rpm; it was a powerful unit, but overheating led to problems with

the cylinder head. To overcome that, they detuned the engine to the point where, when they came out of service, they were down to between 160 and 165hp.

'A weakness of the Jaguar engine was that over-revving led to dropped valves. You hear





