

BODYSHELL

The Motorsport Escort RS Cosworth bodysHELLs are seam welded, strengthened and fitted with a welded in safety roll cage to give high torsional rigidity, long life and inherent safety.

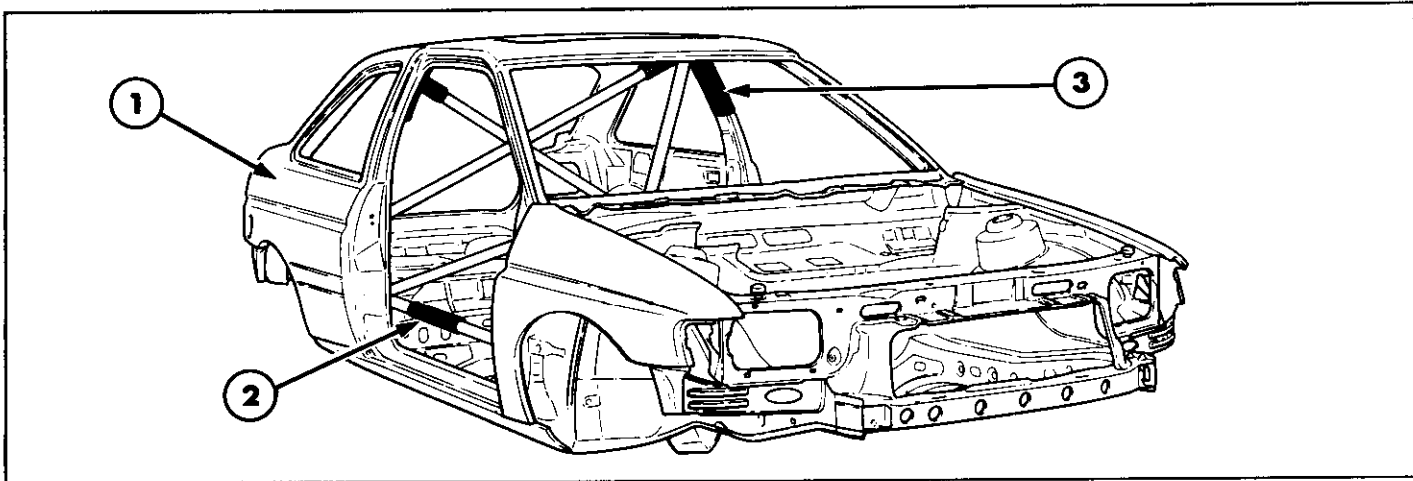
Bonnet locking pins should be fitted to the hood top and the tailgate. The best location for the tailgate fixing is on the rear window pillars, below the upper spoiler.

Roll cage sleeving is available in two sizes. Use 9092652 on door bars, and 9095218 on the main roll hoop near the occupant's head.

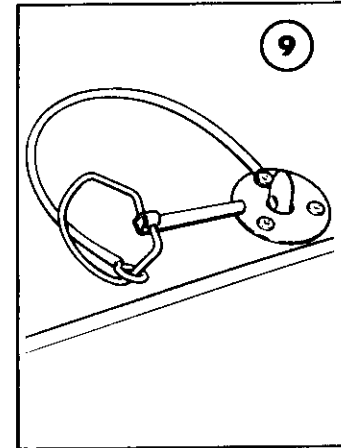
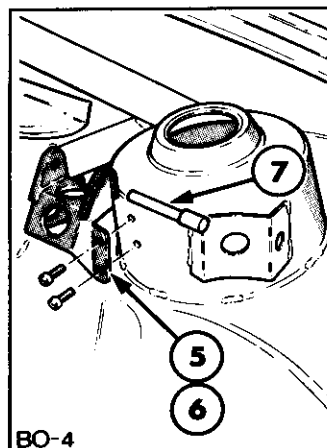
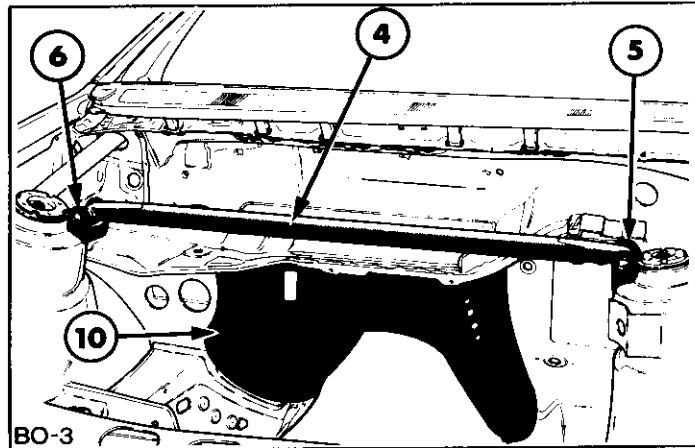
The netting is useful for carrying helmets and jackets in the rear, or as a map container on the navigator's door.

The trimmed bodysHELLs include glass, lights, instrument panel, heater and some interior trim but do not include seats or mechanical parts.

Note: The 1994 rollcage changes proposed by FISA will not be applied retrospectively to bodysHELLs bought during 1993.

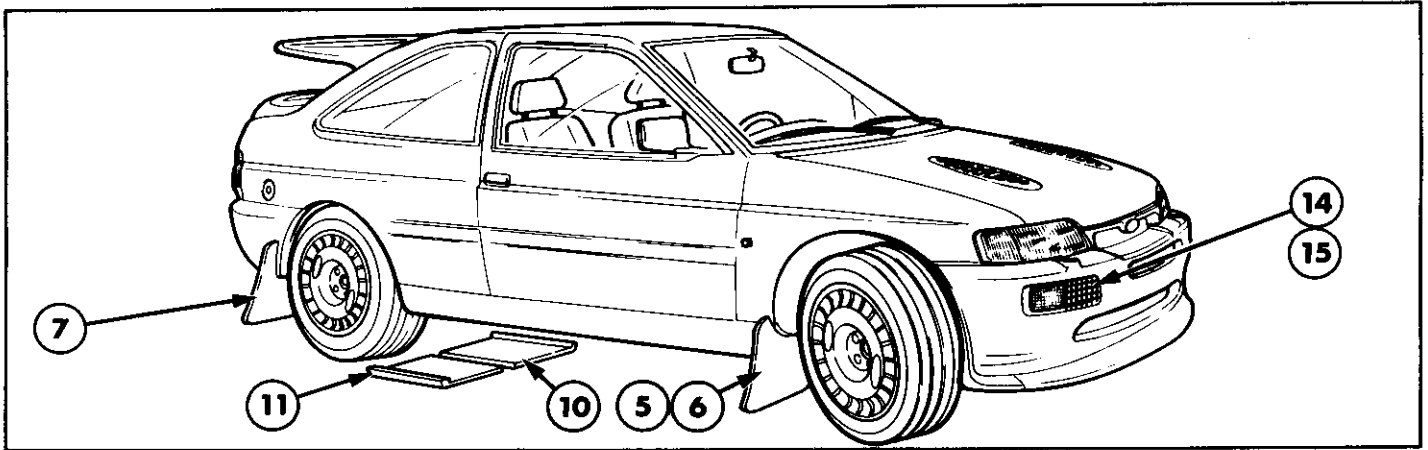
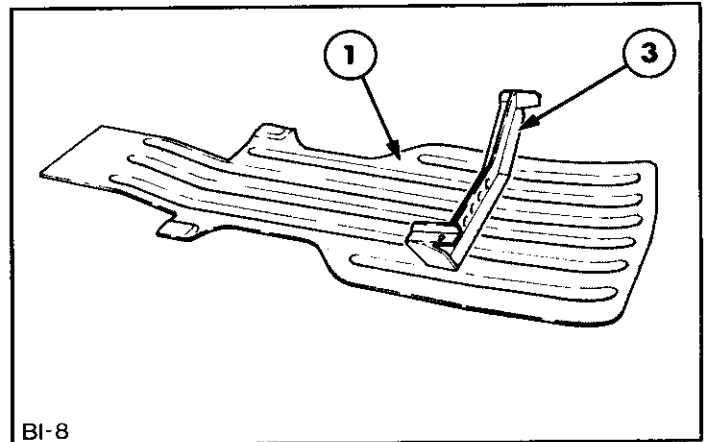


Description	Finis Code	Comments	Qty.
1 BodysHELL - RHD	9095475	Fully prepared including	1
BodysHELL - LHD	9095476	Welded in Roll Cage	1
BodysHELL - LHD	9095315	Primer - no Cage	1
BodysHELL - RHD	9095316	Primer - no Cage	1
BodysHELL - LHD	9095579	Trimmed	1
BodysHELL - RHD	9095585	Trimmed	1
2 Sleeving, Roll Cage	9092652	2 x 2 metre lengths	1
3 Sleeving, Roll Cage	9095218	54mm I x 2M length	1
4 Crossbrace, Turret	9093717	Lightweight Support	1
5 Bracket, Crossbrace, LH	9094871	Use with Crossbrace 9093717	1
6 Bracket, Crossbrace, RH	9094875	Use with Crossbrace 9093717	1
7 Pin, Turret Brace Fixing (Quick Releasing)	9094870	Use with 9093717 9094871 and 9094875	2
8 Netting, Side Storage	*6122596		2
9 Bonnet Pin Set	9095221	Aluminium	2
10 Heatshield - Transmission Tunnel	9094778		1
11 Seat Rail	9092968		4
12 Front Plate	9095412	Seat Mounting	4
13 Rear Plate	9095411	Seat Mounting	4

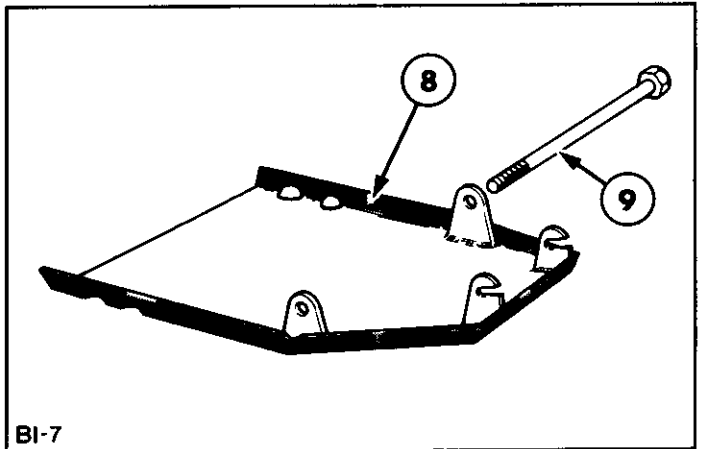
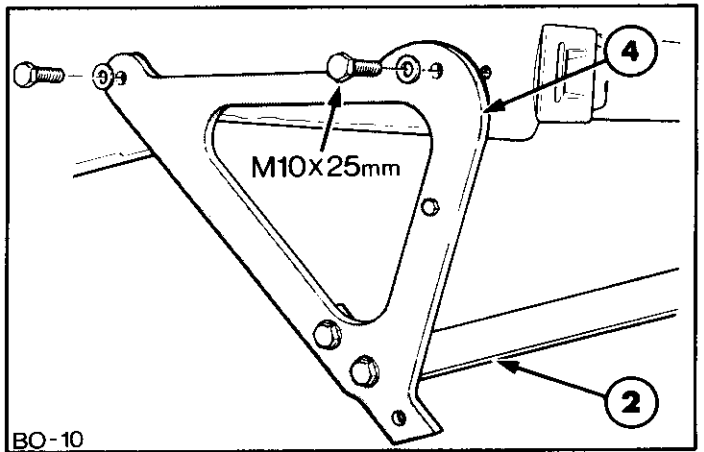


The under shield is mounted onto a front bracket supported by two aluminium side brackets, a centre support fitted just ahead of the suspension crossmember, and two bolts into the chassis rails. A foam pad should be fitted between the undershield and the suspension cross member/sump.

Shields are also available to protect the rear floor pan, windscreen washer bottle, rear axle and production fuel tank. On gravel events mudflaps are recommended.



Description	Finis Code	Comments	Qty.
1 Undershield, Front Kevlar	9095489	Tarmac or Gravel	1
2 Undershield Support Bracket, Front	9095504		1
3 Undershield Support	9094697	Gold	1
4 Bracket, Sump Shield, Side	9095503		2
5 Mudflap Front LH	9095618		1
Mudflap Front RH	9095619		1
6 Bracket - Mudflap	9095709		2
7 Mudflap - Rear LH	9095616		1
Mudflap - Rear RH	9095617		1
8 Undershield, 7" Axle	9095014	Use with standard 7" axle	1
9 Bolt - Axle	9093217		1
10 Floor Pan Shield LH	TBE	Gravel use	1
Floor Pan Shield RH	TBE	Gravel use	1
12 Kit - Fuel Tank Guard	9095499	For std. tank	1
13 Shield - Washer Bottle	9095501	Kevlar	1
14 Grille LH	9092971		1
Grille RH	9092972		1

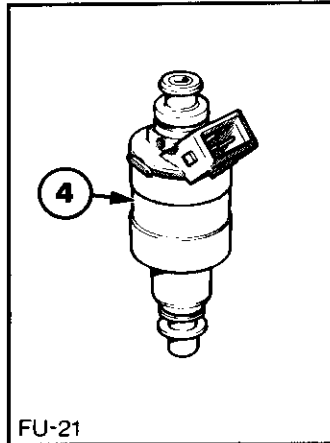
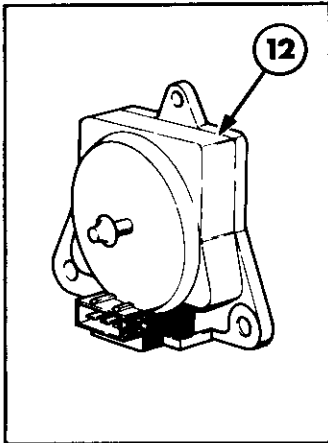


ENGINE

The basic engine is virtually a carry over from the Sierra Cosworth 4x4, but with a larger turbo, and a water-cooled intercooler. Water injection (I.S.S) is also fitted to the first 2500 cars. This can only be activated with the correct EPROM.

As the car was homologated with water injection, the system **MUST** be fitted in the car to comply with group 'N'.

Fit the recommended injectors, and spark plugs, map sensor and fuel pump. Set the boost to 1.5 bar peak. Excessive boost will raise the water temperature and shorten turbo and gasket life. The turbocharger will normally last for 800km between rebuilds. Ensure air filter element is replaced regularly in dusty conditions or if wet. Seal gaps around radiator/intercooler with tape.



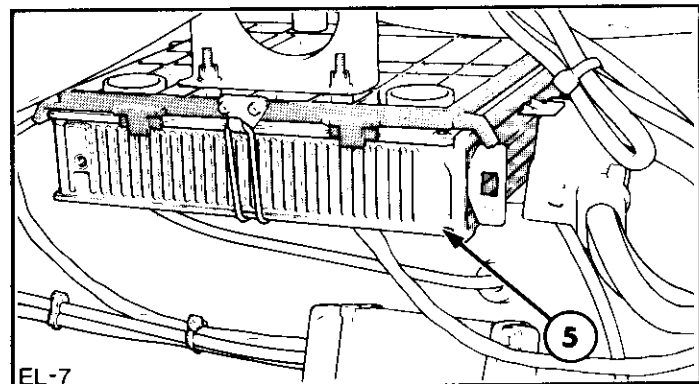
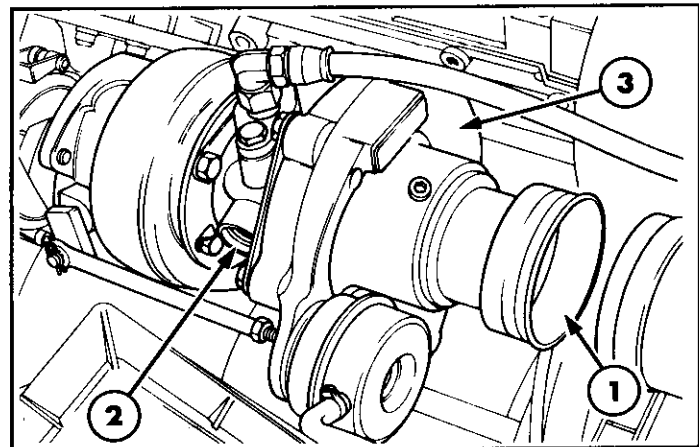
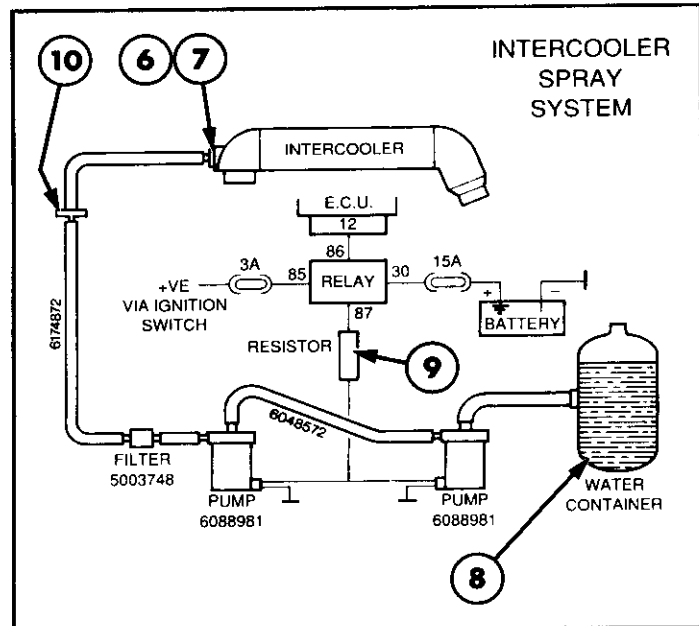
Description	Finis Code	Comments	Qty.
1 Restrictor Turbo	9095484	36mm diameter gold	1
2 CHRA Turbo Core	9095477	Balanced	1
3 Compressor Hsg.	9095446	To suit restrictor	1
4 Fuel Injector	9095156	'Green'	4
5 EPROM Board	9095877	Level P8	1
6 Adaptor - Jet	9095677		1
7 Jet - I.S.S.	9095584		1
8 Water Bag	9095582		1
9 Resistor	—	R22 Ohms 100W	1
10 Flow Valve	9095871		1
11 Sparking Plug	9094884	AGP 601	4
12 Air Pressure Sensor	9092433	3.0 Bar	1
13 Cyl. Head Gasket	9092431		1

ONLY SUPER UNLEADED FUEL (98 OCTANE) SHOULD BE USED

Wastegate Setting	:	9 P.S.I.
Max. Boost	:	1.5 Peak (Overboost)
Fuel Pressure (Idle)	:	3 Bar ± 0.2
Engine Oil	:	Mobil 1 (Change after 1000km)
Inlet Timing (Max. opening)	:	110° ATDC
Exhaust Timing (Max. opening)	:	110° BTDC
Crank Sensor Gap at Pulley	:	1.1 - 1.3mm
Spark Plug Gap	:	0.5mm
Wastegate Restrictor	:	0.8mm

The EPROM board asy. 9095877 can be used with or without a catalyst, but the production lambda (HEGO) sensor must be connected.

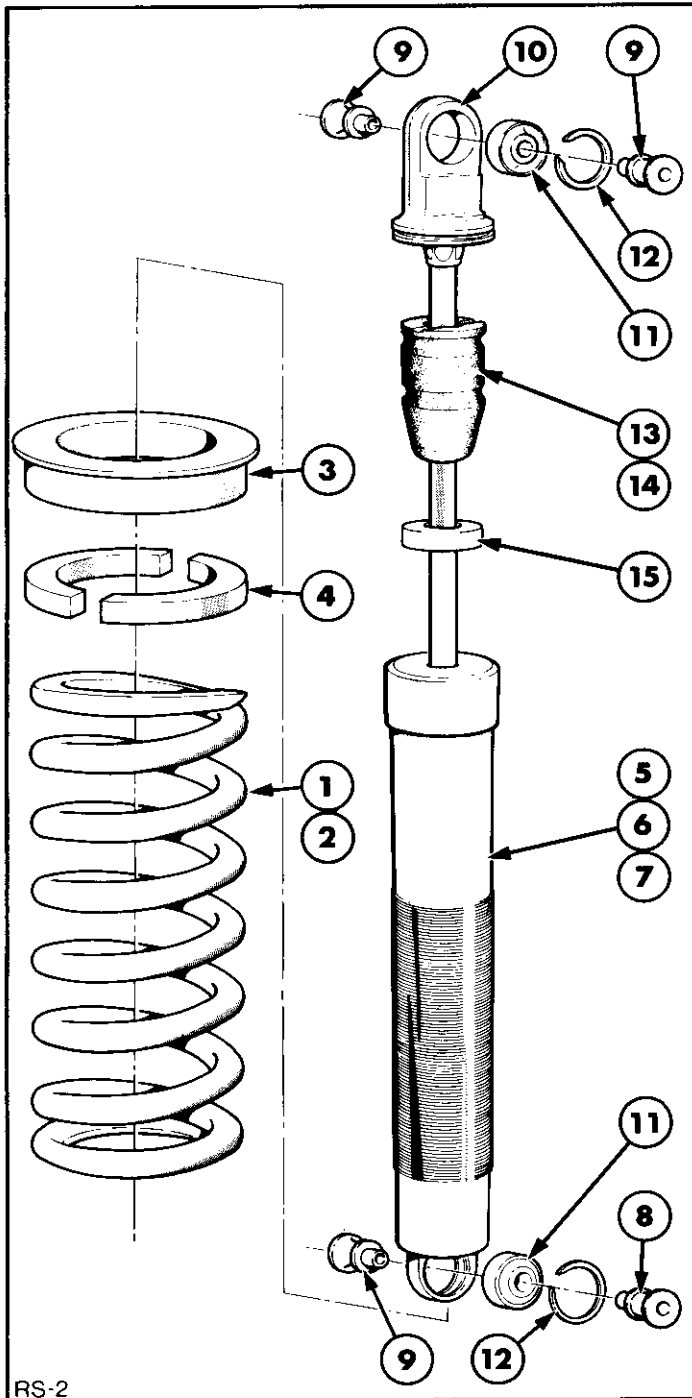
The water temperature should be approx. 90°C at 20°C ambient. In warm climates, restrict the intercooler pre-cooler water flow and run the radiator fans continuously (fit an override switch). The intercooler spray system (ISS) will keep the plenum temperature at 40°C (ensure container is filled at service points) The thermostat can be modified or replaced. Use new cylinder head bolts at each rebuild. The sump can be baffled to reduce oil surge.



When building up the rear suspension, check the tracking which should be 3mm toe-in. If required, slot inner joint mounting holes to achieve correct figure and weld reinforcing washers in correct location. The rear springs are designed to give the lowest ride heights required. For some events it will be necessary to fit one or more spacers (item 4) above spring to avoid 'bottoming out' of the suspension.

The production semi trailing arms on the Escort are stronger than Sierra and fitted with uniball joints. On rough gravel events check regularly for bending and cracking around flanges. Similarly, check rear hubs. Shotpeening will help prevent fatigue cracking.

The rear beam and semi-trailing arms can be reinforced by the addition of material. In the case of the rear beam, any reinforcement must follow the original shape and be in contact with it.



Description	Finis Code	Comments	Qty.
1 Road Spring, Rear	9095482	Gravel, 78 N/mm	2
2 Road Spring, Rear	9095483	Tarmac, 85 N/mm	2
3 Upper Spring Seat	9094800	Bolt to bodyshell	2
4 Spacer, Upper Spring Seat	9094861	Optional, for 15mm ride height increase	4
5 Shock Absorber, Rear	9095478	Tarmac 400/170	2
6 Shock Absorber, Rear	9093519	Tarmac 340/160	2
7 Shock Absorber, Rear	9095163	Gravel 350/130	2
8 Insert, Damper	9094859	Lower inner	2
9 Insert, Damper	9092545	Top & lower outer	6
10 Damper Top	9093257		2
11 Spherical Bearing, Rear Damper	9092816	Use with recommended shock absorbers	2
12 Circlip, Rear Damper	9092815	Use with 9092816	4
13 Bump Stop	9092536	Off road use 75mm	2
14 Bump Stop	9092517	Tarmac use 50mm	2
15 Spacer, Bump Stop 6mm	9095298		2

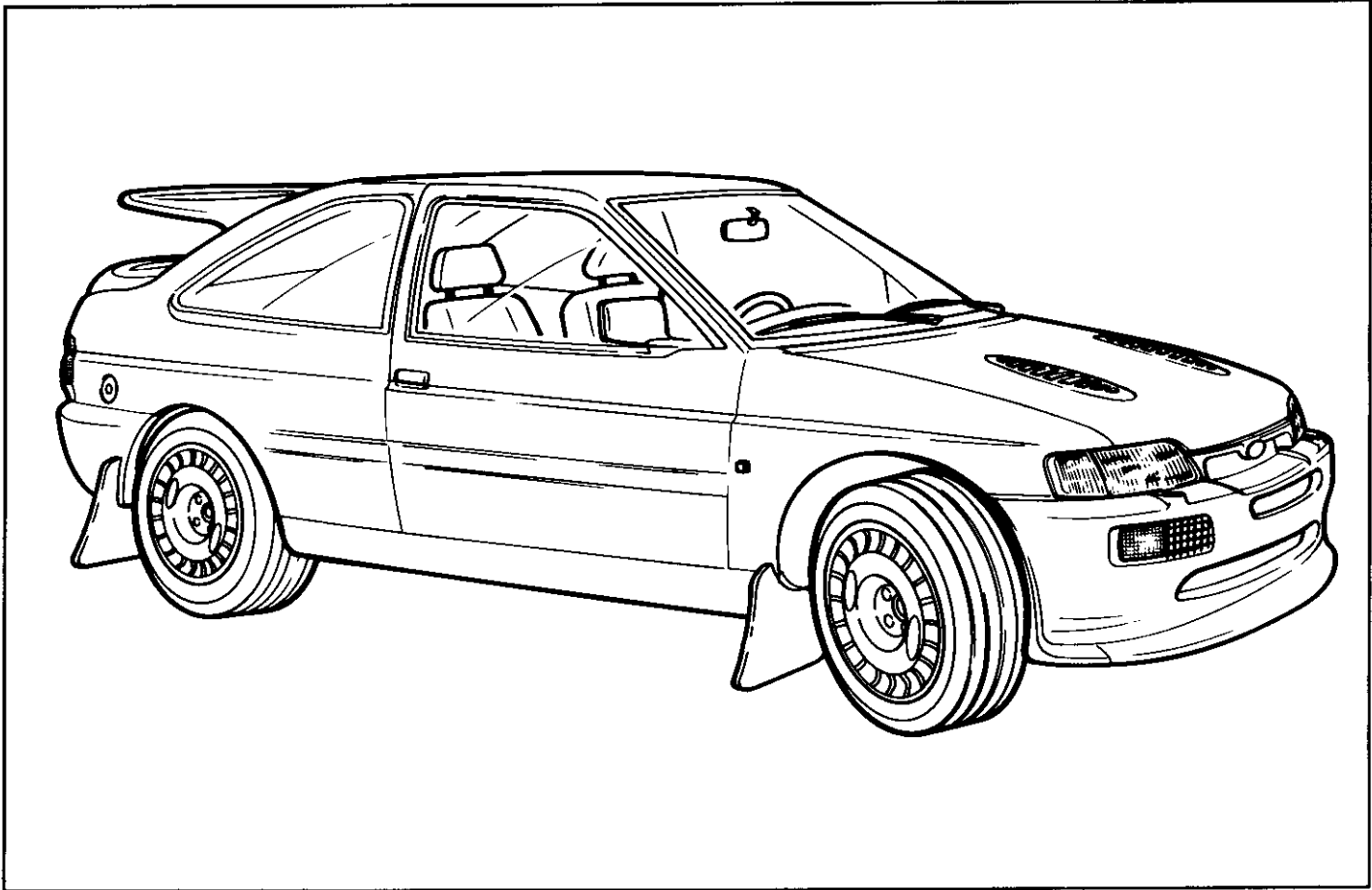
Torques

Hub Nuts	300 Nm
Trailing Arm to Beam	95 Nm
Damper Mountings	95 Nm

The standard wheel size fitted to the Ford Escort RS Cosworth is 8" x 16" with 25mm offset.

For gravel, 6" x 16" or 7" x 16" is recommended with a maximum tyre size of 660 diameter.

For Tarmac 7" x 16" or 8" x 16" is recommended with a tyre diameter of 620mm. Maximum tyre width in 1993 is unrestricted. Longer studs are available to suit competition wheels, if required.

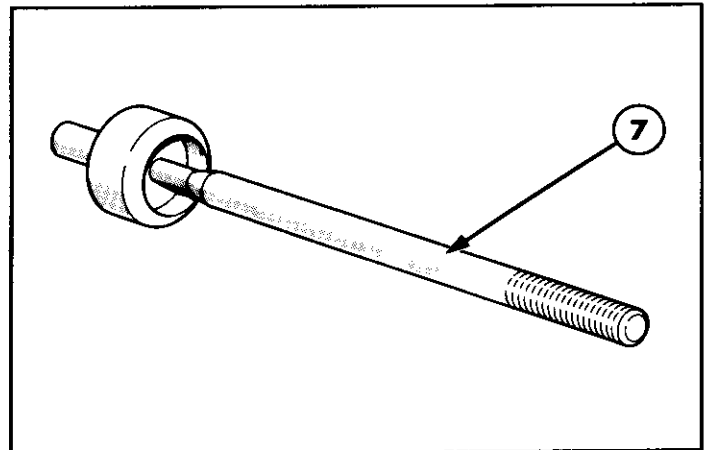


Description	Finis Code	Comments	Qty.
1 Wheel 16" x 7"	9095498	Aluminium	5
2 Wheel 16" x 6"	T.B.E.		
3 Wheel 16" x 8"	*6647997	Std. (Tarmac)	5
4 Wheel Stud	9095118	Longer than std.	16
5 Wheel Nut	9095122	Use with 9095498	16
6 Wheel Brace	9090628	(Shown on page 3)	1
7 Steering Track Rod	9095344	H.D. Joint	2

Tyre Pressures: 2.0 Bar

Torques

Wheel Nuts	90 Nm
Track Rod Inner Joint	88 Nm
Track Rod to Stg. Arm	30 Nm
Steering Rack Mounting	45 Nm

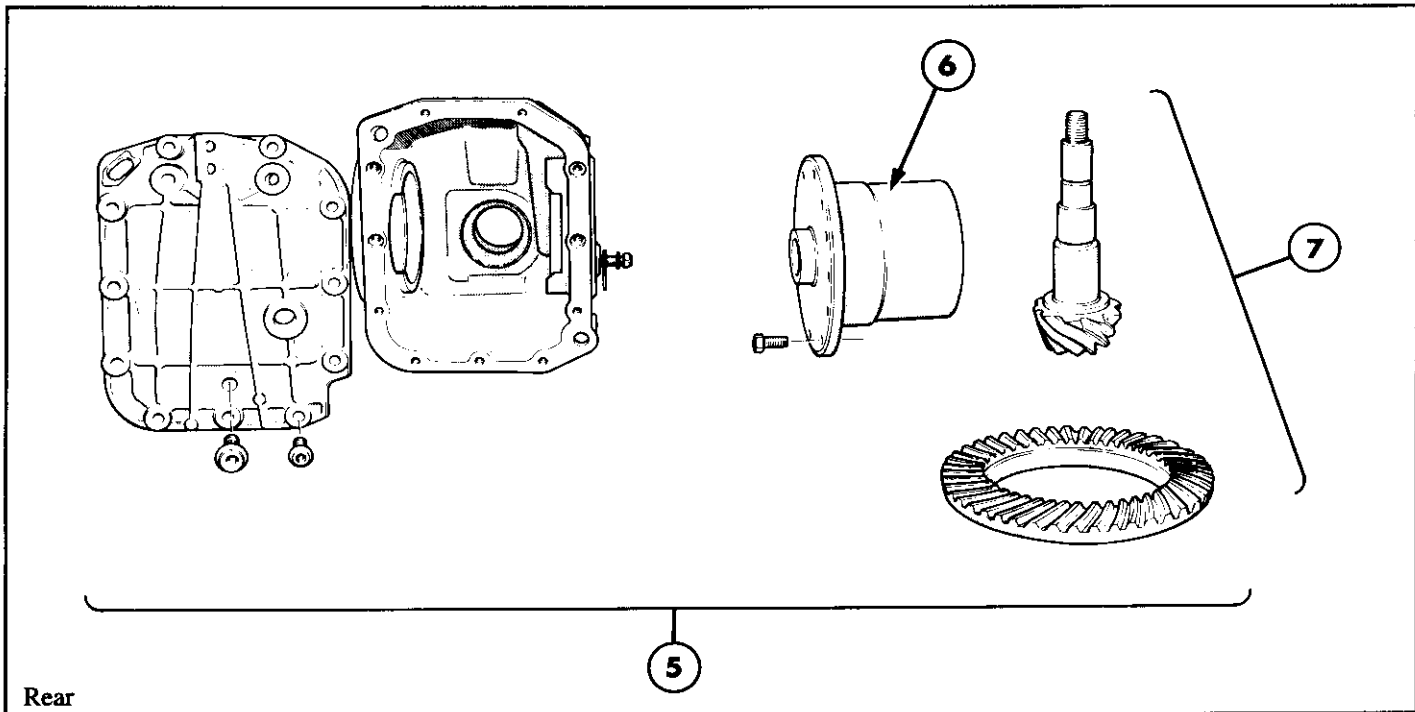
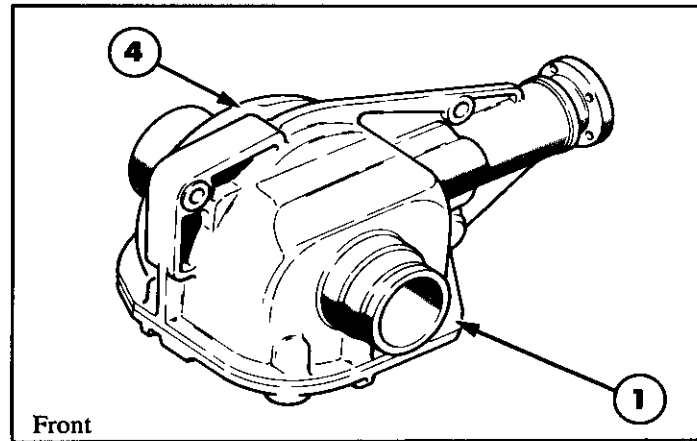


NOTE: Remove steering lock from steering column.

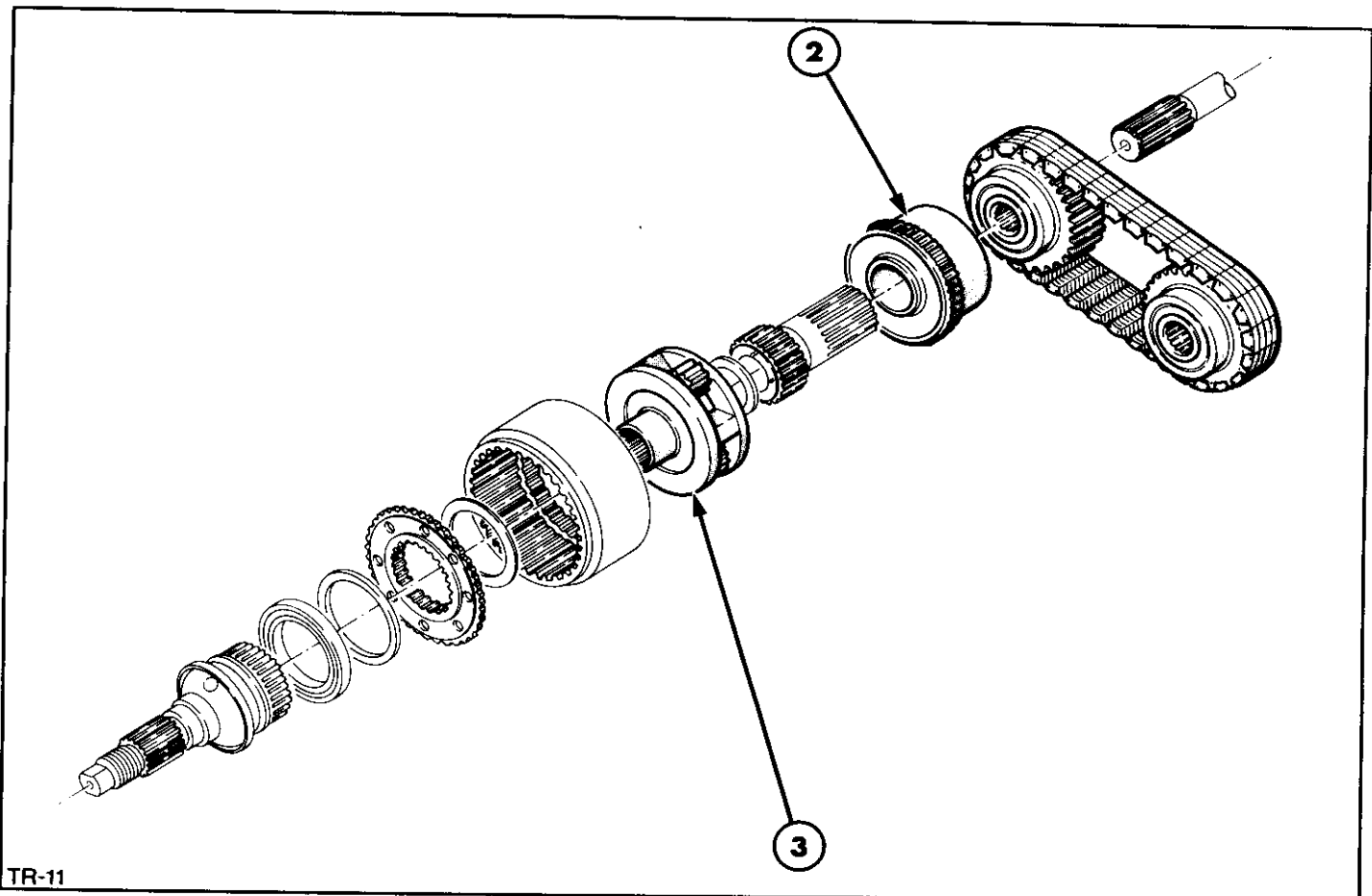
5 The Motorsport front and rear axles have been dismantled, crack tested, shotpeened and carefully reassembled to improve their service life. In normal rally conditions the axles should be overhauled after 600km, but if the car has had a puncture or broken shaft, the axle should be changed as soon as possible. The rear VC. can be overhauled by F.F.D. at Coventry.

Crack test all gears at each rebuild and change casings after 1200km to avoid fatigue cracks. See workshop manual for rebuild procedures. Note that the front R.H. driveshaft joint is normally retained in the axle by a circlip.

The optional case for the front axle is selected for maximum wall thickness to give added security on gravel events.

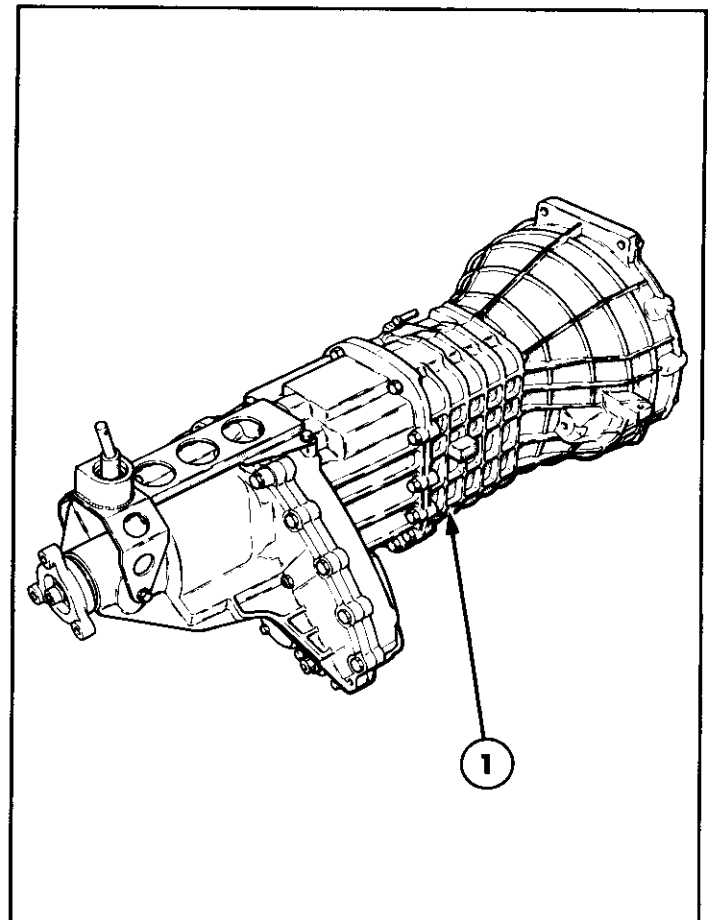


Description	Finis Code	Comments	Qty.	Description	Finis Code	Comments	Qty.
1 Front Axle Assembly Complete	9095165		1	5 Rear Axle Assembly 7"	9095164	Selected	1
Service Parts for 9095165				Service Parts for 9095164 Include:			
2 Crown Wheel and Pinion Set, Front Differential	9094796	Selected and shotpeened	1	6 Differential Assembly (Rear) Including Viscous Coupling,	9094797	Selected gears 180 Nm setting	1
3 Differential Assembly, Front 3.62:1	9094798	Selected gears	1	7 Crown Wheel and Pinion	9094794	Selected and shotpeened	1
4 Case - Front Axle (not included in 9095165)	9095239	Selected thickness	1				



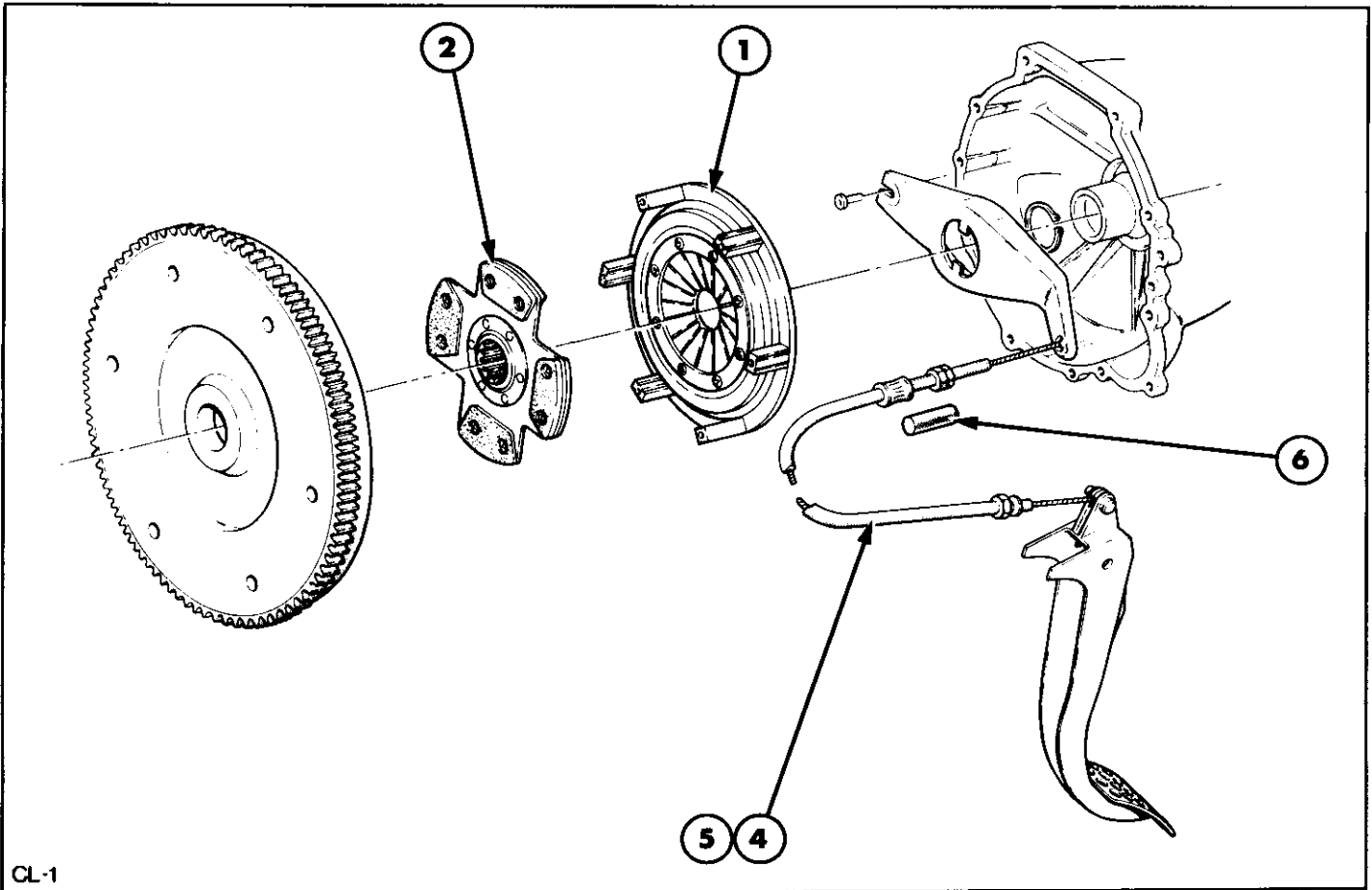
TR-11

Description	Finis Code	Comments	Qty.
1 Transmission and Transfer Gearbox Assembly	9095468	Complete transmission, fitted with selected gears and centre VC 9095486	1
2 Viscous Coupling Centre Differential	9095486	Selected 50 N/m setting	1
3 Carrier, Centre Differential Planet Gears	9094668	Selected standard items, crack tested	1



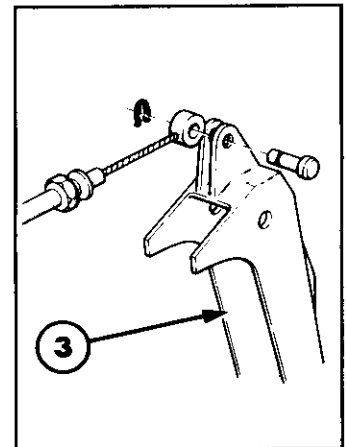
The clutch recommended for group 'N' is a cerra-metallic 4 paddle with sprung centre and has proved to be very reliable in the Sierra. The standard cable is replaced with an adjustable version.

Large pedal pads can be welded to the standard pedals and should be fitted with nonslip material.



CL-1

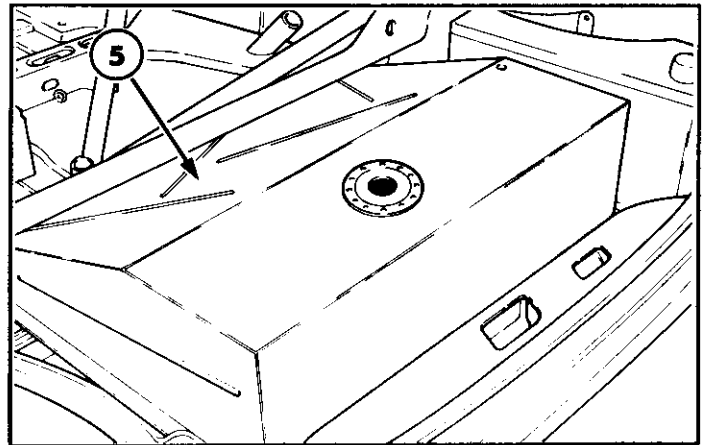
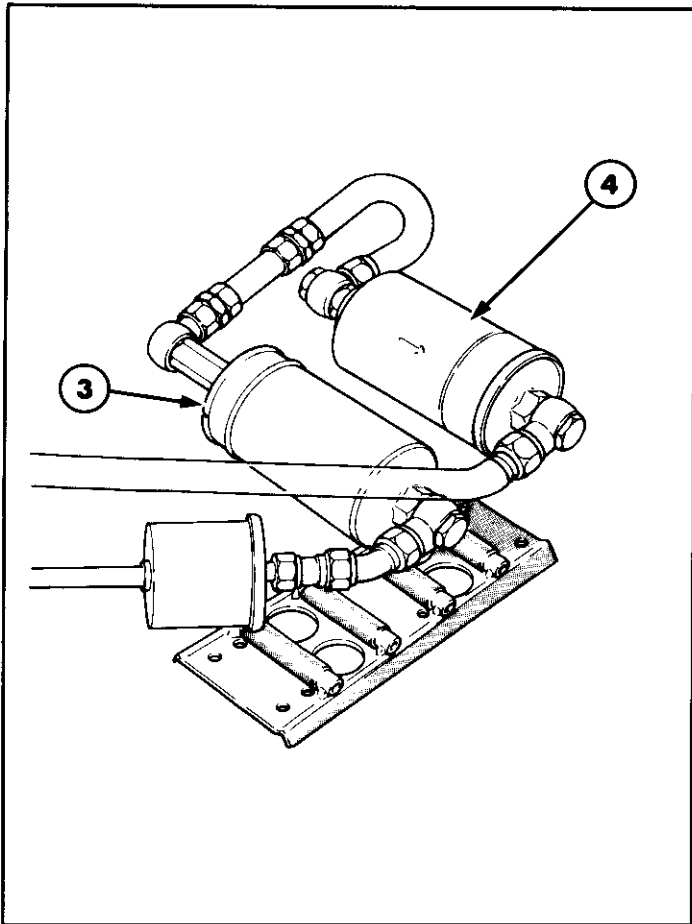
Description	Finis Code	Comments	Qty.
1 Clutch Cover Assembly	9092484	Use with 9095154 and standard release bearing	1
2 Clutch Driven Plate	9095154	With sprung centre	1
3 Clutch Pedal Assembly	9093132	Extended pad and no self-adjuster	1
4 Cable Assembly LHD	9093711	Adjustable	1
5 Cable Assembly RHD	9093712	Adjustable	1
6 Spacer, Clutch Cable	9093715	Use with 9093711 or 9093712	1
7 Accel. Pedal	9094822	High ratio with pedal stop	1



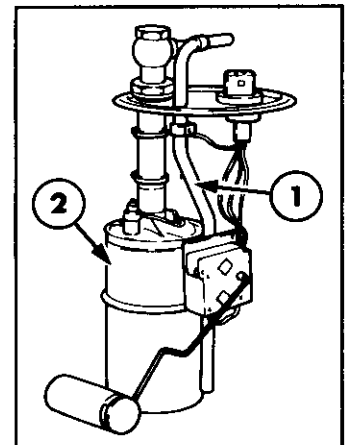
The standard fuel tank can be retained, but it is necessary to ensure that the recommended Bosch Pump is fitted rather than the AC Delco. The pump is attached to the in-tank sender unit. A new sender unit with Bosch pump fitted is available from Motorsport.

Disconnect fuel pump inertia switch situated in the drivers side lower panel.

A 65 litre FT3 safety tank is now available. This will fit in the boot space after removal of the access panel on the R.H.S. (in some models this panel is fixed and must be cut out). The metal edges must be turned and covered to protect the fuel tank. The complete tank must be enclosed in a fuel and fire proof cover (usually aluminium). The fuel pump and filter can be positioned under the floor, aviation type fuel lines must be used.



Description	Finis	Comments	Qty.
1 Fuel pump and sender	9095517	STD Tank only	1
2 Fuel pump	9095466	Service part	1
3 Fuel pump	9092162	FT3 Tank (Alt.)	1
4 Filter	9090275	FT3 Tank	1
5 Fuel Tank	9095576	FT3 Tank	1



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