

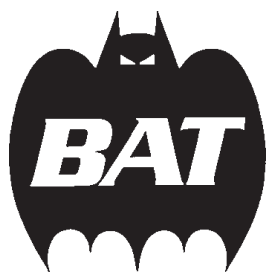
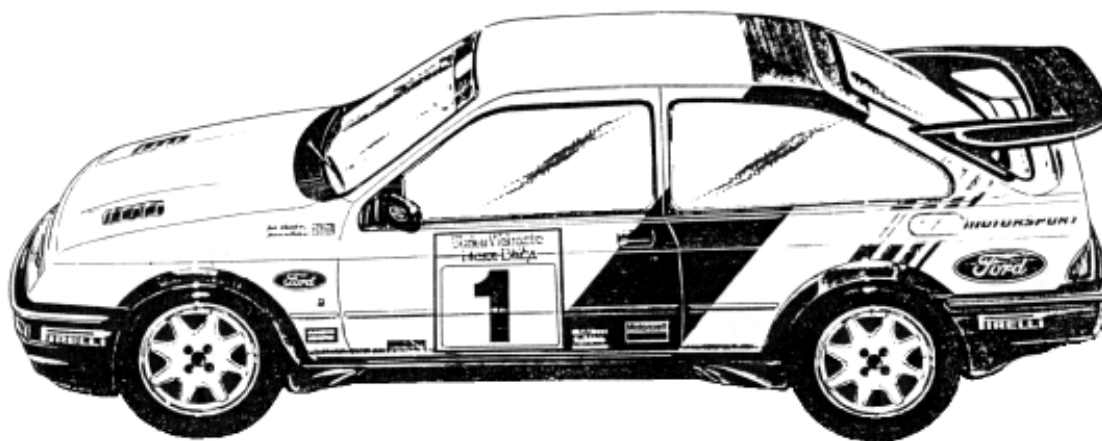
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# PERFORMANCE & SERVICE PARTS GUIDE

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Merkur XR4ti / Sierra XR4i / Sierra RS Cosworth / Sierra RS 500 / Merkur Scorpio

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**BAT** Inc.

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**BAT** is pleased to be able to offer this line of components for the U.S. specification "Merkur" XR4ti, Scorpio and the other European models of Sierra lineage. European Sierra models have been manufactured since 1982 and include two versions or body styles. We will concern ourselves with the Mark 1 as it is more similar to our U.S. version. The high water marks of the MK1 series are the XR4i and the Sierra Cosworth and R/S 500 models. From the exterior, XR4i is very similar to the U.S. Merkur XR4Ti in overall looks. However, under the hood it is powered by a 2.8L V-6 engine where we have the 2.3L 4 cylinder turbo. The other notable MK1 car the Cosworth Sierra is simply one of the more outrageous vehicles Ford has ever offered. The Cosworth starts life as a base Sierra three door body shell and adds a high performance engine, suspension, transmission, and aerodynamics, making it one of the fastest 4 passenger road cars in the world. Power comes from a 2.0L Cosworth Turbo YB series engine rated at 205 h.p. in its base form, and upwards of 550 h.p. in modified rally form. The R/S500 homologation outgrowth of the R/S Cosworth version is basically a de-tuned race car in street trim. Sierra MK2 versions received a sheet metal make over but share most of the mechanicals of the MK1. Interesting MK2 Sierra's include the Sierra Sapphire Cosworth, and Sierra XR 4x4 - an advanced 4 wheel drive 4 door sedan.



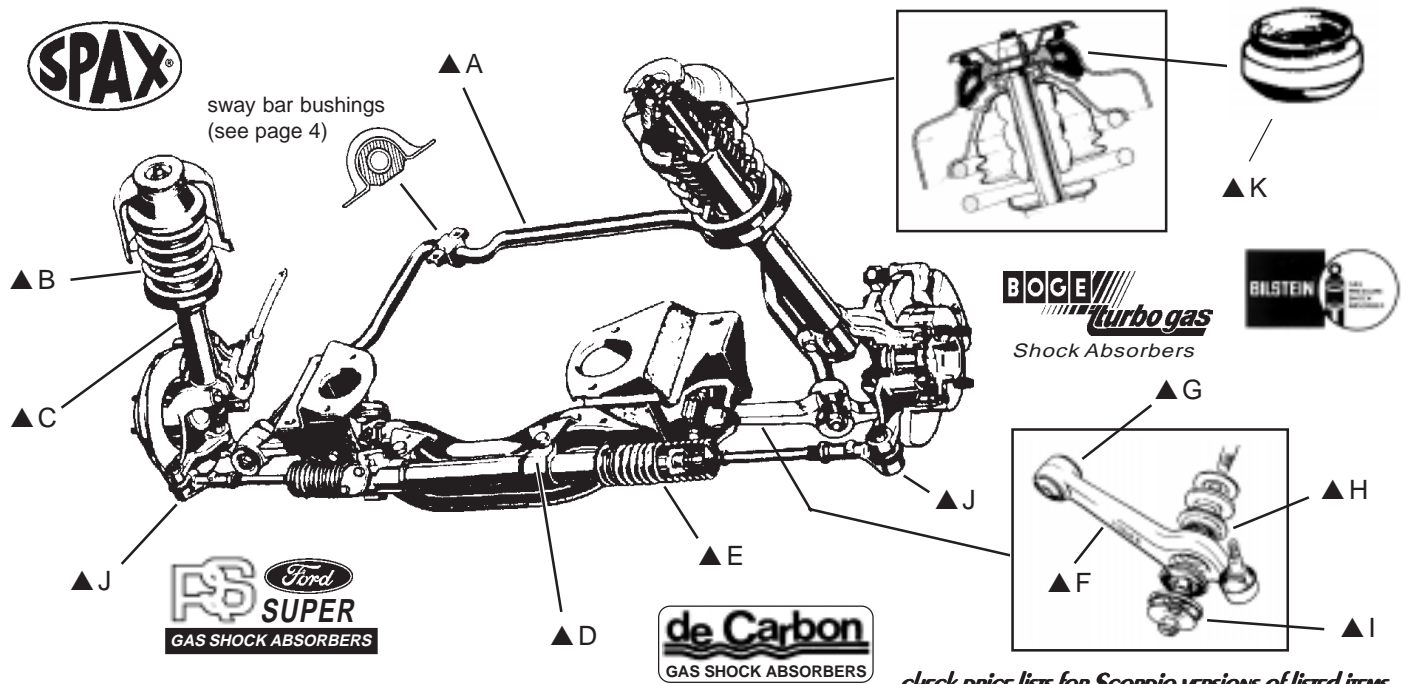
What all this Sierra history means to us is an abundance of specialized performance parts, many of which bolt-on to our U.S. spec. Merkur. With this in mind Merkur owners can make an good vehicle even better. It is very amusing how much attention a Merkur that has been outfitted with Ford badges and Sierra logos and Cosworth grille commands, let alone a car equipped with the complete Cosworth body work!

**BAT** is a recognized Ford Motorsport USA and Ford Motorsport/Rallysport European dealer with over 30 years of experience of tuning European Ford automobiles. From Cortinas, Lotus Cars and Anglias during the 60's through the 70's with Pinto and Capri and into the 80's and 90's with Fiesta, Escort and Merkur. Our expertise with building and racing 4 cylinder Ford powered cars includes Formula Ford, Formula Continental & Atlantic, SCCA Production, Showroom Stock, Auto-X, Improved Touring and Circle Track racing classes. We have a highly capable staff and you can confidently allow them to handle even your most difficult technical needs. Better still, our ability to buy in quantity, import products directly, and manufacturer speciality components assures you are getting the right parts at the right price.

*Peter Thompson Eric Odenweller*

and the staff at **BAT** Inc.

P.S. We have recently added a considerable number of parts for the Merkur Scorpio. Most of the XR4 items will have a Scorpio alternate available. See the price list for more information. You can also view and download updates to this catalog from our web site at [www.batinc.net](http://www.batinc.net)



▲ **A Front Sway Bar** The larger Cosworth Sierra 28.5mm factory front sway bar is a direct replacement for the standard 25mm bar. (H.D. bar clamp bushings are included) **M407**

NOTE: see price list for sway bar clamp bushings for XR & Scorpio

▲ **B Spring Sets** see page 3 (spring section) for listings

▲ **C Front Struts** (see below- shocks sold as each)

**Spax TA** series struts utilize a non pressurized gas over oil design with 10 positive settings (knob type external adjustment on top) for tuning the dampening to suit individual applications. **M401A**

**Spax Sport** One of the most popular shocks we sell, Spax fixed rate gas sport shocks are an excellent choice for upgrading the handling performance on the XR. **M401V**

**Bilstein** New for 2000. Bilstein's new sprint series gas shocks offer the big B's renowned German made performance at a very attractive price. Bilstein shocks are now available in our suspension kits see page 3 for details. **M401B**

**Rally/Sport Super-Gas** made to European Ford spec. by Koni of Holland. R/S shocks feature Konis twin-tube low pressure design and have adjustable settings (knob type external adjustment on top) which can be tailored to suit individual applications. **M401RS**

**Boge Turbo-Gas** German manufactured twin tube high pressure gas design utilizing a unique variable valving system that insures the perfect balance between ride comfort and road holding capability. **M401S**

**DeCarbon** French made mono tube high pressure gas shocks with fairly sporty valving, similar in design to Bilstein. **M401G**

**KYB GR2** gas struts are high quality, heavy duty units that are a cost effective performance upgrade for the XR4. Handling is improved without sacrificing ride quality. **M401Y**

▲ **D Steering Rack** complete rack assembly w/inner tie rods, boots, and stainless steel inner sleeve. **M434SR**

▲ **E Rack Boot\*** replacement steering rack boot **M434RB**  
\*same boot left or right XR4 & Scorpio

▲ **F Front Control Arms** higher mileage cars exhibiting ball joint and bushing wear can benefit from our standard control arms. These arms are brand new, and include ball joints and bushings installed. Note: the outboard (sway/control arm) bushing is an uprated "castellated" design which transmits less vibration than the original U.S. spec. bushing. (left) **M428L** (right) **M428R**

▲ **G Inner Control Arm Bushing H.D.** Made from increased durometer rubber, these heavy duty (GPN) bushings offer the desired firming effect while retaining a reasonable degree of shock and vibration absorption. (each) **M428BH-N** Optional urethane version of above bushing (set) **M428BU**

▲ **H Control Arm/Sway Bar Bushing Kit** This heavy duty urethane bushing set really does an excellent job limiting the amount of "jutter" felt at the steering wheel which is especially noticeable under braking. The kit includes bushing halves and center sleeves to do both sides of the car and is easy to install. (set) **M428BK**

▲ **H Control Arm/Sway Bar Bushings** As an option to urethane bushings we offer either the "castellated" type outer TCA bushings are available in standard rubber, or the new style (better fills the void between the bushing halves) H.D. GPN bushing kit. Both will dramatically reduce the vibration under braking common to XR's and Scorpio's. Outer TCA Bushings Standard (pair) does 1 arm **M428B** Outer TCA Bushing Set H.D. (set) **M428BK-N**

▲ **I Sway Bar Washer** Get the most from your new "castellated" type outer TCA bushings by using this "shallow" washer (in front behind the lock nut) for a tighter fit. **M407W**

▲ **J Tie Rod Ends** High quality European Ford standard replacement tie rod ends. (left) **M434L** (right) **M434R**

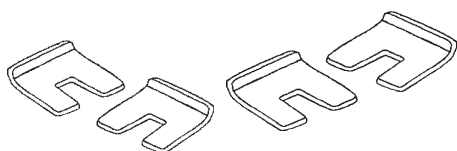
▲ **K Front Strut Upper Insulator H.D.** Made from increased durometer rubber, these heavy duty (GPN) Insulators offer the desired firming effect while retaining a reasonable degree of shock and vibration absorption. Steering and transitional response becomes noticeably more direct. (each) **M404**



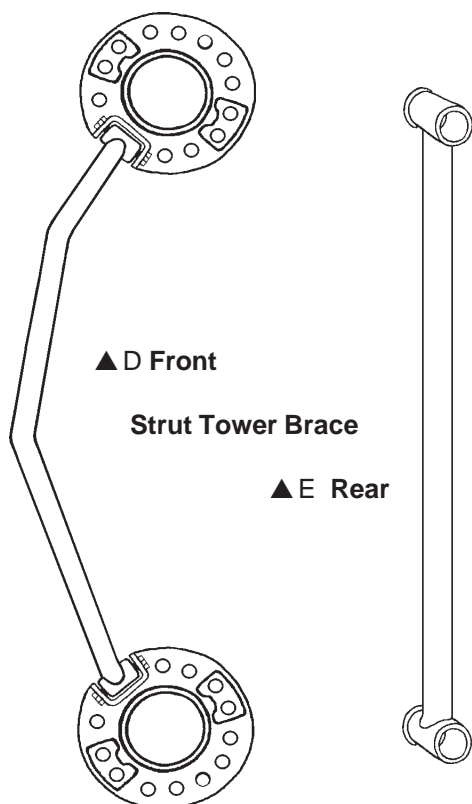
▲ A Suspension Packs



▲ B Sport Spring Sets



▲ C Camber Shims



▲ D Front

Strut Tower Brace

▲ E Rear

**▲ A Suspension Packages -XR4**

Below is a listing of shock and spring packages available as engineered suspension packages. Fixed rate or adjustable shocks are supplied as noted. More information on the shocks that make up these kits is listed elsewhere in the front and rear suspension sections. Kits are available with either -25mm or standard ride height sport springs- your choice same price !

**Spax Sport Gas Shocks & Sport Springs (-25mm or Standard) M400S**

*\* supplied with fixed rate high performance gas shocks*

**Bilstein Gas Shocks & Sport Springs (-25mm or Standard) M400B**

*\* supplied with fixed rate high performance gas shocks*

**Spax Sport Adjust Shocks & Sport Springs (-25mm or Std.) M400A**

*\* supplied with adjustable high performance gas shocks*

**▲ B Sport Spring Sets -XR4**

Our specially designed progressive rate sport springs will minimize body "roll" while cornering and reduce "dive" under hard braking. Progressive springs are designed to become stiffer as they are compressed allowing for a smooth transition between (very reasonable) straight line comfort and high performance cornering. We recommend the standard height or -25mm ride height sets for all around performance street and light competition use, the -40mm springs should be considered for only racing/competition use. Take into account when lowering your cars ride height that additional negative camber will be added to the front and rear suspension angles. This is usually not a problem on the front end, however, cars that are already experiencing noticeable wear on the inside edges of the rear tires at "standard" ride height will see this increase when lowering. This condition can be corrected if necessary by using camber shims (kit available below) at the rear spindle mount to adjust for excessive negative camber. Notes: Defining "standard" ride height is difficult on the XR4 as the springs on many cars have already "sagged" 1/2 to 3/4 of an inch since new. In this case if the front and rear tires are still wearing normally lowering the car another 1/4" or 1/2" (over what it is currently) should not adversely effect tire wear.

**Sport Spring Set -25mm (front & rear) XR M414M****Competition Spring Set -40mm (front & rear) XR M414C****Sport Spring Set\* Standard Height (front & rear) XR M414S**

**See Price List For Scorpio Spring Applications**

**▲ C Rear Camber Shim Kit -XR4**

To correct rear camber angles on cars that have excessive negative camber we offer a handy rear spindle shim kit. This kit is sometimes necessary on cars with lowered sport springs, but can also be used to correct camber on cars with "sagging" stock rear springs. The components (instructions and shims) needed to space the rear bearing spindles between the brake backing plates are supplied. This camber kit will add roughly 1.5 degrees of positive camber and adjust rear toe back with in standard range as well.

**M423R**

**▲ D Front Strut Tower Brace -XR4**

The XR4 has a well built chassis structure that does not exhibit much flex under normal conditions. With the addition of high performance tires and suspension parts more stress is put on the front strut towers causing some deflection under hard cornering which will eventually weaken the structure and lead to unpredictable handling characteristics. Connecting the front strut towers by adding a upper stressbar (strut tie bar) will improve chassis stiffness and keep the suspension angles constant under hard use conditions. For this purpose we offer a lightweight aluminum front tower brace (stressbar) that incorporates a removable tubular cross brace and cast alloy turret mounts. Highly recommended for cars that are used for track events, drivers schools, auto-cross and spirited road use.

**M403F**

**▲ E Rear Shock Mount Brace XR4**

Our rear (stressbar) is a nicely finished lightweight tubular aluminum rear brace which is just the thing for linking left and right hand upper shock mounts. A slight bit of plastic trimming is required when fitting. Bars are supplied with an attractive blue finish.

**M403R**

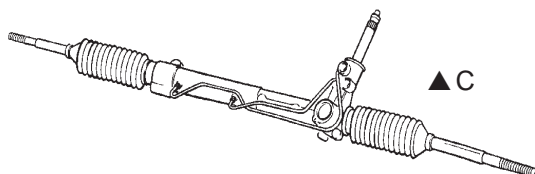
(less expensive steel version of above) **M403RS**



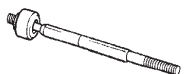
▲ A/B



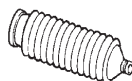
▲ C



▲ D



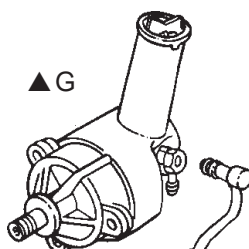
▲ E



▲ F



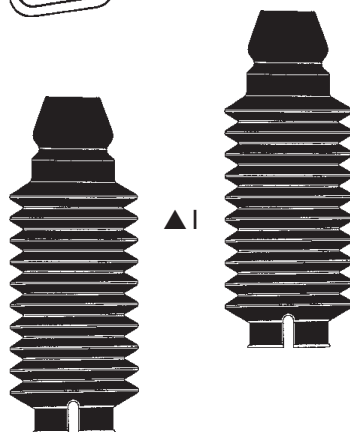
▲ G



▲ H



▲ I



▲ A **Sway Bar Bushings H.D.** Urethane sway bar bushings in 25mm for standard XR4 and 28mm for larger Sierra Cosworth or Scorpio sway bars. *Note: XR4Ti and Scorpio sway bar clamps differ slightly making the bushings non-interchangeable. XR's that require replacement bar clamps (see below) will then require Scorpio type bushings to match. (bushings sold each)*

Bar Bushing H.D. 25mm- (direct fit) XR4	M407BU
Bar Bushing H.D. 28mm- (direct fit) XR4	M407BAU
Bar Bushing H.D. 25mm- (special) XR4 with G407C clamp	G407BA
Bar Bushing H.D. 28mm- (direct fit) Scorpio	G407BAU

▲ B **Sway Bar Bushing Clamps** The European type sway bar bushing clamp (used on Scorpio & Cosworth) has a groove to receive a ridge back type bushing. Clamps are a direct replacement for Scorpio and can also be used to replace worn or broken clamps on XR4 with correct bushings (see above). (2) required- sold each

Sway Bar Bushing Clamp (each)- Scorpio	G407C
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▲ C **Steering Rack** Complete ZF type rack assemblies include inner tie rods, boots, and stainless steel inner sleeve.

Steering Rack Assembly- XR4	M434SR
Steering Rack Assembly- Scorpio	G434SR

**Steering Rack Bushing** Standard and H.D. (urethane) rack bushings (2) required (sold each)

Steering Rack Bushing (each)- XR4 & Scorpio	M434B
Steering Rack Bushing H.D (each)- XR4 & Scorpio	M434BH

▲ D **Inner Tie Rod** High quality European Ford inner tie rods available for XR4 and Scorpio. (sold each)

Inner Tie Rod- XR4Ti	M434TK
Inner Tie Rod- Scorpio (left & right same)	G434TK

▲ E **Rack Boot** All rubber steering rack bellows (boots). Suitable for both XR4 and Scorpio. (left & right rack boots same- sold each)

Steering Rack Boot (each) -XR4 & Scorpio	M434RB
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▲ F **Outer Tie Rod End** High quality European Ford outer tie rod ends available for XR4 and Scorpio. (each)

Tie Rod End- XR4 (left)	M434L
Tie Rod End- XR4 (right)	M434R
Tie Rod End- Scorpio (left & right same)	G434

▲ G **Power Steering Pumps** Direct fit, replacement power steering pumps for XR4 and Scorpio applications. (core charge required)

Power Steering Pump- XR4Ti (integral reservoir type)	M434P
Power Steering Pump- XR4Ti (remote reservoir type)	M434PA
Power Steering Pump- Scorpio (all)	G434P

▲ H **P/S Pressure Hose** We have these hard to find pressure side hoses available for all model year XR4Ti's.

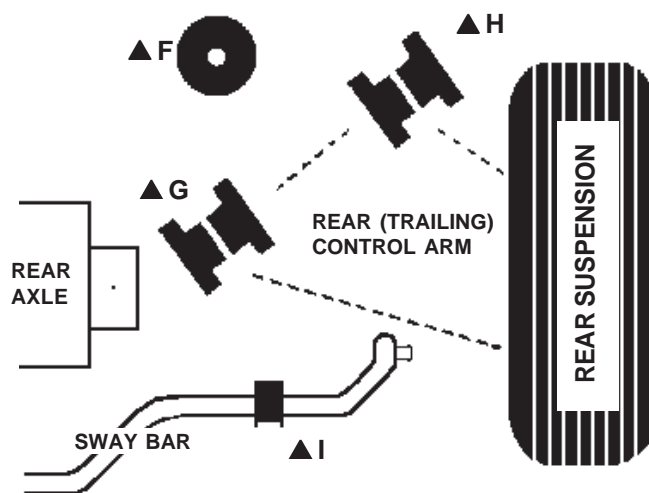
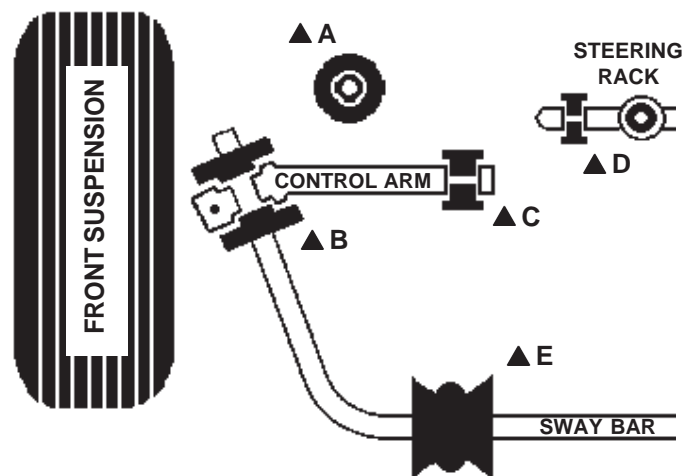
P/S Pressure Hose- XR4Ti (all years)	M434PH
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▲ I **Strut Boot/Bump Stop** These H.D. strut boot/bump stops help reduce the chance of strut damage due to over-compression and/or strut rod/seal damage from dirt and corrosion. A specially designed one piece bellows with integral (NBR), "nitrile butadiene", variable rate bump rubber make these especially well suited for lowered ride height suspensions. (sold each)

Strut Boot/Bump Stop (each) -XR4 & Scorpio	M405B
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**Front Strut Rotating Bearings**

Upper Rotating Bearing (each) -Scorpio	G403
Upper Rotating Bearing (each) -XR4	M403



### FRONT BUSHINGS XR4Ti

<b>▲ A Bushing* H.D. Upper Strut Mount (GPN)</b>	<b>M404</b>	<b>24.00</b>
<i>*bushing (1) refits 1 strut- 2 required per car</i>		
<b>▲ B Bushings* Standard Rubber Outer TCA</b>	<b>M428B</b>	<b>20.00</b>
<i>*bushings pair (2) refits 1 arm - "castelated" type bush</i>		
<b>▲ B Bushing Set* H.D. Rubber (GPN)</b>	<b>M428BK-N</b>	<b>50.00</b>
<i>*includes bushings, sleeves, washers &amp; nuts- full car set left &amp; right</i>		
<b>▲ B Bushing Set* H.D. Urethane Outer TCA</b>	<b>M428BK</b>	<b>70.00</b>
<i>*includes bushings &amp; sleeves - full car set left &amp; right</i>		
<b>▲ C Bushing* Standard Inner TCA</b>	<b>C428</b>	<b>9.50</b>
<i>*bushing each (1) refits 1 arm - 2 required per car</i>		
<b>▲ C Bushing* H.D. (GPN) Inner TCA</b>	<b>M428BH-N</b>	<b>16.75</b>
<i>*bushing each (1) refits 1 arm - 2 required per car</i>		
<b>▲ C Bushing Set* H.D. Urethane Inner TCA</b>	<b>M428BU</b>	<b>30.00</b>
<i>*includes bushings &amp; sleeves- full car set left &amp; right</i>		
<b>▲ D Bushing* Steering Rack Standard</b>	<b>M434B</b>	<b>8.70</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per rack</i>		
<b>▲ D Bushing Set* H.D. Urethane Steeing Rack</b>	<b>M434BH</b>	<b>35.50</b>
<i>*includes bushings, sleeves- full rack set left &amp; right</i>		
<b>▲ E Bushing* Urethane Sway Bar 25mm</b>	<b>M407BU</b>	<b>20.00</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per sway bar</i>		
<i>note: these bushings are direct fit for XR4 bushing clamps</i>		
<b>▲ E Bushing* Urethane Sway Bar 28mm</b>	<b>M407BAU</b>	<b>20.00</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per sway bar</i>		
<i>for use only with larger Cosworth 28mm sway bar.</i>		
<i>note: these bushings are direct fit for XR4 bushing clamps</i>		

### REAR BUSHINGS XR4Ti

<b>▲ F Bushing* H.D. (GPN) Body Beam Mount</b>	<b>M429B</b>	<b>36.75</b>
<i>*bushing each (1) 2 required per car</i>		
<b>▲ F Bushing* H.D. Urethane Body Beam Mount</b>	<b>M429BU</b>	<b>54.50</b>
<i>*bushing with sleeve each (1) 2 required per car</i>		
<b>▲ G Bushing* H.D. Urethane Inner TCA</b>	<b>M424BI</b>	<b>29.75</b>
<i>*bushing with sleeve each (1) refits 1 arm - 2 required per car</i>		
<b>▲ H Bushing* H.D. Urethane Outer TCA</b>	<b>M424BO</b>	<b>29.75</b>
<i>*bushing with sleeve each (1) refits 1 arm - 2 required per car</i>		
<b>▲ I Bushing* Urethane Rear Sway Bar 12MM</b>	<b>M408BU</b>	<b>6.00</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per sway bar</i>		
<i>for use only with standard XR4 12mm sway bar.</i>		
<b>▲ I Bushing* Urethane Rear Sway Bar 16MM</b>	<b>M408BAU</b>	<b>6.00</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per sway bar</i>		
<i>for use only with larger Cosworth 16mm sway bar.</i>		

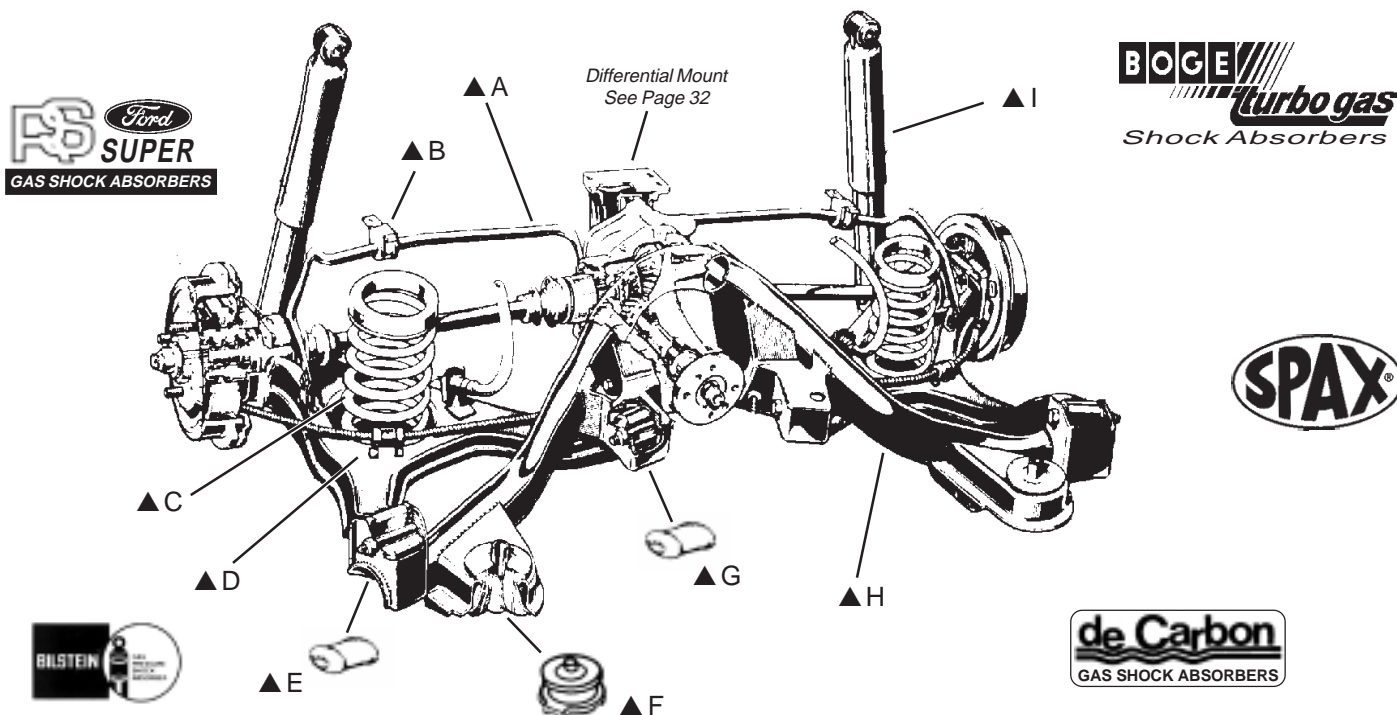
### FRONT BUSHINGS SCORPIO

<b>▲ A Bushing* Standard Upper Strut Mount</b>	<b>G404</b>	<b>24.90</b>
<i>*bushing (1) refits 1 strut- 2 required per car</i>		
<b>▲ B Bushings* Standard Rubber Outer TCA</b>	<b>M428B</b>	<b>20.00</b>
<i>*bushings pair (2) refits 1 arm - "castelated" type bush</i>		
<b>▲ B Bushing Set* H.D. Rubber (GPN)</b>	<b>M428BK-N</b>	<b>50.00</b>
<i>*includes bushings, sleeves, washers &amp; nuts- full car set left &amp; right</i>		
<b>▲ B Bushing Set* H.D. Urethane Outer TCA</b>	<b>M428BK</b>	<b>70.00</b>
<i>*includes bushings, sleeves &amp; nuts- full car set left &amp; right</i>		
<b>▲ C Bushing* Standard Inner TCA</b>	<b>G428B</b>	<b>12.20</b>
<i>*bushing each (1) refits 1 arm - 2 required per car</i>		
<b>▲ C Bushing* H.D. (GPN) Inner TCA</b>	<b>G428H-N</b>	<b>22.50</b>
<i>*bushing each (1) refits 1 arm - 2 required per car</i>		
<b>▲ C Bushing Set* H.D. Urethane Inner TCA</b>	<b>G428BU</b>	<b>35.00</b>
<i>*includes bushings &amp; sleeves- full car set left &amp; right</i>		
<b>▲ D Bushing* Steering Rack Standard</b>	<b>M434B</b>	<b>8.70</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per rack</i>		
<b>▲ D Bushing Set* H.D. Urethane Steeing Rack</b>	<b>M434BH</b>	<b>30.00</b>
<i>*includes bushings, sleeves- full rack set left &amp; right</i>		
<b>▲ E Bushing* Urethane Sway Bar 28mm</b>	<b>G407BAU</b>	<b>20.00</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per sway bar</i>		
<i>note: these bushings are direct fit for Scorpio bushing clamps only</i>		

### REAR BUSHINGS SCORPIO

<b>▲ F Bushing* H.D. (GPN) Body Beam Mount</b>	<b>M429B</b>	<b>36.75</b>
<i>*bushing each (1) 2 required per car</i>		
<b>▲ G Bushing* H.D. Urethane Body Beam Mount</b>	<b>M429BU</b>	<b>54.50</b>
<i>*bushing with sleeve each (1) 2 required per car</i>		
<b>▲ H Bushing* H.D. Urethane Inner TCA</b>	<b>M424BI</b>	<b>29.75</b>
<i>*bushing with sleeve each (1) refits 1 arm - 2 required per car</i>		
<b>▲ I Bushing* H.D. Urethane Outer TCA</b>	<b>M424BO</b>	<b>29.75</b>
<i>*bushing with sleeve each (1) refits 1 arm - 2 required per car</i>		
<b>▲ I Bushing* Urethane Rear Sway Bar 16MM</b>	<b>G408BU</b>	<b>6.00</b>
<i>*bushing each (1) refits 1 mounting point- 2 required per sway bar</i>		
<i>note: these bushings are direct fit for Scorpio bushing clamps only</i>		

**Standard Rubber Bushings** - Stock O.E. replacement  
**Hard Rubber (GPN) Bushings** - Similar to standard bushing but made with higher durometer rubber, stock appearance.  
**H.D. Urethane Bushings** - High durometer moulded urethane product, superior quality, low noise, easy installation.



check price lists for SCORPIO versions of listed items

▲ A **Rear Sway Bar** The larger Cosworth Sierra 16mm rear sway bar is a direct replacement for standard U.S. spec. rear bar. (bar includes urethane bar clamp bushings) **M408**

**Cosworth Bar 18mm w/bush for Scorpio** **G408**

▲ C **Rear Sway Bar Shackle** Worn sway bar end link shackles can reduce the rollbars effectiveness and should be inspected and replaced if needed. (each) **M408S**

**Rear Sway Bar Shackle for Scorpio** **G408S**

▲ B **Rear Bar Bushings** H.D. urethane bushings for either standard 12mm or Cosworth 16mm bars. (sold each) (12mm size) **M408BU** (16mm size) **M408BAU**

▲ C **Spring Sets** See page 3 for spring selection.

▲ D **Rear Wishbone Set H.D.** Race prepared rear arms are fully strengthened with bracing tubes and capped to give a smooth lower surface. The shock absorber mounts are gusseted for added reliability. Inner and outer bushings are replaced with race quality spherical bearings. Wishbones are supplied in a durable shot blasted, powder coated finish. **M424**

▲ E **Outer Rear Arm Bushing H.D.** Made from specialized aircraft urethane, these heavy duty bushings offer the desired firming effect while retaining a reasonable degree of shock and vibration absorption. (each- 2 halves w/sleeve) **M424BO**

▲ F **Body Beam Mount Bushing H.D.** This heavy duty rubber (GPN) bushing/mounts will reduce the for/aft movement at the rear axle beam mounting points and really does a great job in firming up the rear end. (each) **M429B**

**NEW** Optional urethane version of above bushing **M429BU**  
note M429BU is specially designed for easy installation

▲ G **Inner Rear Arm Bushing H.D.** Made from specialized aircraft urethane, these heavy duty bushings offer the desired firming effect while retaining a reasonable degree of shock and vibration absorption. (each- 2 halves w/sleeve) **M424BI**

▲ H **Complete Beam Assembly H.D.** Fully race prepared beam/subframe assembly has capped and braced tubes and double skinned wishbone and differential mounting plates, supplied in a durable shot blasted, powder coated finish. **M429**

▲ I **Rear Shock Absorbers** (see below- sold as each)

**Spax TA** series shocks utilize a non pressurized gas over oil design with external adjustment valve (external screw in bottom) for fine tuning the dampening to suit individual applications. Spax is England's largest and best known manufacturer of performance shock absorbers. **M402A**

**Spax Sport** One of the most popular shocks we sell, Spax fixed rate gas sport shocks are an excellent choice for upgrading the handling performance on the XR. **M402V**

**Bilstein** New for 2000. Bilstein's new sprint series gas shocks offer the big B's renowned German made performance at a very attractive price. Bilstein shocks are now available in our suspension kits see page 3 for details. **M402B**

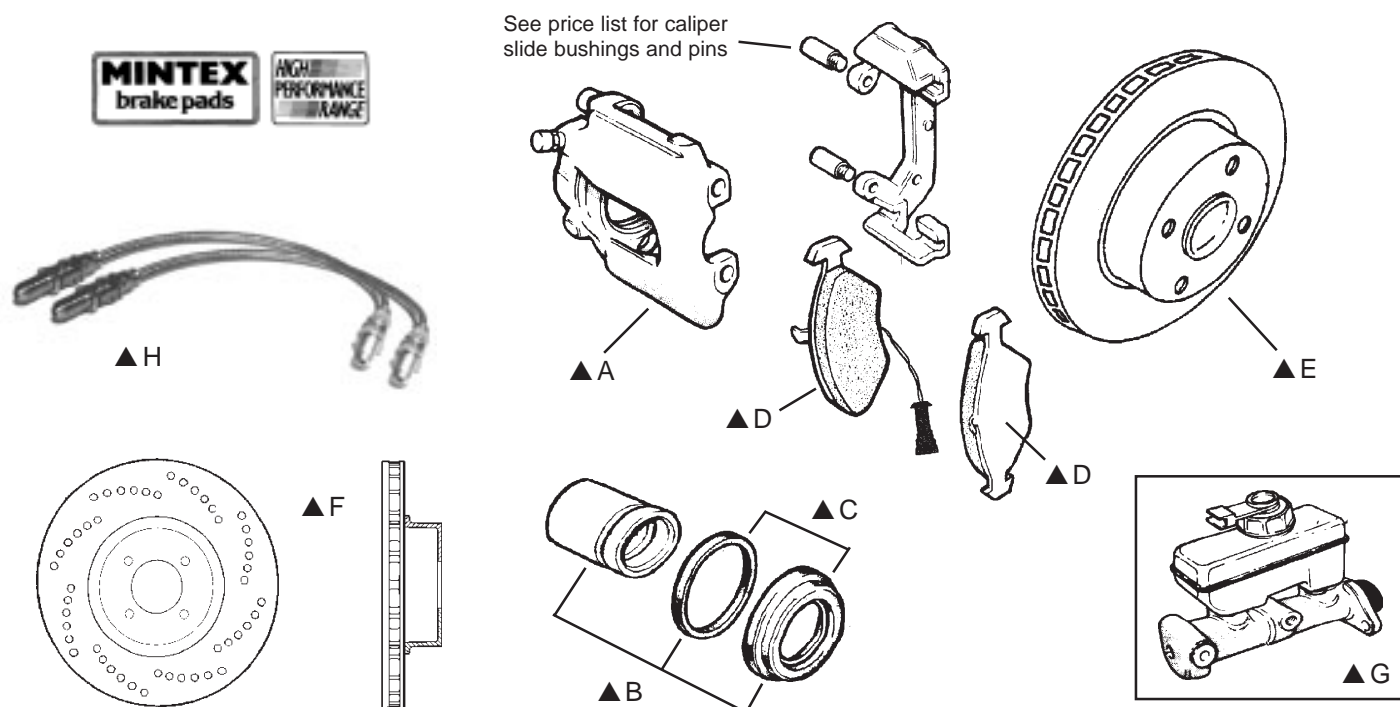
**Rally Sport Super-Gas** made to European Ford spec. by Koni of Holland. R/S shocks feature mono-tube high pressure design and have 4 adjustable rebound (STD., +20%, +50%, +100%) settings which can be tailored to suit individual applications. **M402RS**

**Boge Turbo-Gas** shocks are a German manufactured twin tube high pressure gas design utilizing a unique variable valving system that insures the perfect balance between ride comfort and road holding capability. **M402S**

**DeCarbon** French made mono tube high pressure gas shocks with fairly sporty valving, similar in design to Bilstein. **M402G**

**KYB Gas-Adjust** shocks are well made, heavy duty dampeners that are the least expensive performance shock upgrade for the XR4. Handling is improved without sacrificing ride quality. **M402Y**





check price lists for SCORPIO versions of listed items

▲ **A Front Caliper** We offer high quality re-manufactured front calipers which are considerably less costly than new. Calipers are handed left & right and require return core charge. (drivers- left) **M420CL** (passenger- right) **M420CR**

▲ **B Caliper Repair Kit -w/piston** Ford caliper repair kits are an economical way to service a leaking or "sticky" caliper. Fitting this kit, after honing the piston bore, will cure most caliper related problems. (kit does 1 caliper) **M420K4A**

▲ **C Caliper Seal Kit** After inspection many calipers only require new seals to put them right. (kit does 1 caliper) **M420K4**

▲ **D Performance Street Brake Pad Set** Premium Mintex A/F series brake pads will give enhanced brake perform over a wide temperature range with very little brake dusting. Mintex pads also incorporate the pad warning sensor wiring. This is the absolute best performing street pad we have tested and for the price they are a steal. (XR4 & Scorpio) **M420M**

▲ **D Racing Brake Pad Sets** Mintex 1144 is a rally/race pad that is perfectly at home on track or street, offering a high coefficient of drag (.44) and excellent modulation throughout a very wide operating range (up to 1200 degrees). Mintex 1144 is supplied pre-burnished for easy break-in and minimal fade on the first heating cycle. Both fade resistance and wear characteristics are excellent. Mintex pads are the only racing brake pads to incorporate the standard "low pad" sensor wiring. Match a set of these pads with our drilled or grooved sport rotors and Aeroquip stainless brake lines for a substantial increase in braking performance. (XR4 & Scorpio)

**Mintex Street/Competition (M1144)**

**M420G**

**Mintex Full Competition (M1155)**

**M420GA**

▲ **E Standard Front Rotors** Lesser quality generic "white box" rotors tend to warp easily, don't even consider fitting them on your XR4 or Scorpio. BAT supplies only the highest quality (Brembo -Italy & United Brake -England) rotors at better than "bargain" rotor prices. (each)

XR4 **M425**  
Scorpio **G425**

▲ **F Cross Drilled Front Rotors** Cross-drilled brake rotors use centrifugal force to draw excess brake dust and expelled gasses from the pad surface through the drilled passages into the rotors vented cavity and out. This process also improves rotor cooling giving improved braking response and resistance to fade. Our drilled brake rotors are made from Carballoy (a medium flake graphite fully pearlitic low phosphorous iron) manufactured to BS 1452 - 1990 grade 180/220 standard. The cross drilling process is handled by computer CNC milling equipment with holes arranged in a parabolic pattern giving an even sweeping effect to the pad surface ensuring maximum cooling with minimum noise and drag. **M425CD**

\*rotors must be purchased as (handed) pairs- priced as each

**Grooved Front Rotors** As an option we can supply slotted (grooved) pattern rotors which are manufactured to the same high standards as the above listed cross drilled versions. **M425G**

\*rotors must be purchased as (handed) pairs- priced as each

**Drilled & Slotted Front Rotors** As an option we can supply combination drilled & slotted (grooved) pattern rotors manufactured to the same high standards as the above listed cross drilled versions. **M425CDS**

\*rotors must be purchased as (handed) pairs- priced as each

▲ **G Master Cylinder** high quality Bendix replacement power brake master cylinder. (specify year when ordering) **M420MC**

▲ **H Aeroquip Brake Lines** One of the more effective brake modifications you can make is to replace the standard brake hoses with Aeroquip steel braided lines. These performance brake hoses incorporate a teflon interior to keep line expansion "flexing" to a minimum. This greatly reduces the "spongy" pedal feel common to the XR4 & Scorpio brake system. Our stainless lines are assembled from genuine Aeroquip AN-3 hose with premium metric "reusable" (not the lesser quality "swaged" type) hose ends installed.

XR4Ti (1985-86) **M419**  
XR4Ti (1987-89) & Scorpio **G419**

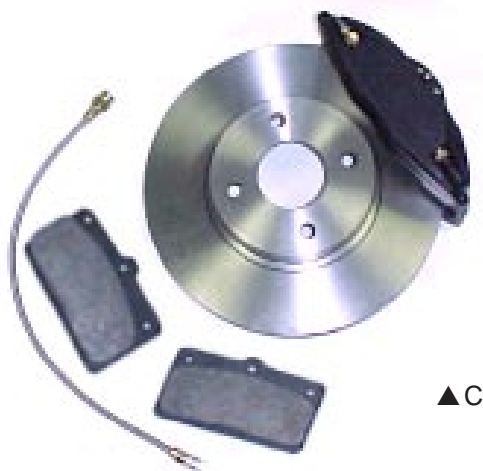




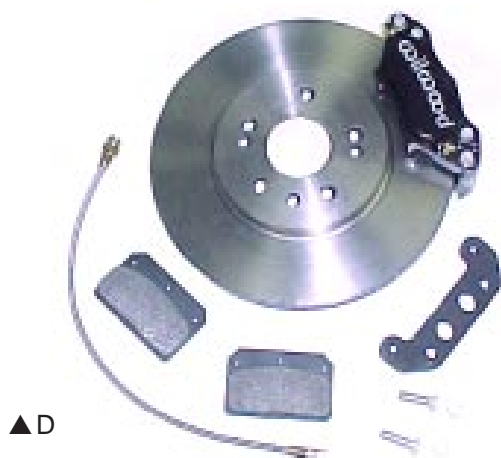
▲ A



▲ B



▲ C



▲ D

## ▲ A Front Brake Special 260 x 24mm

This kit is just the thing for replacing the standard size, wear related, front brake components. We supply high quality Euro specification rotors and premium Mintex brake pads for either XR4 or Scorpio and at a special price as compared to buying items separately.

**Front Brake Special XR4ti**  
**Front Brake Special Scorpio**

**M420SP**  
**G420SP**

## ▲ B BAT R/S Front Brake Kit (283 x 24mm) XR4ti

BAT R/S Brake Kit allows larger 11.25" (283mm) Cosworth brake rotors to be fitted with standard XR calipers. Increasing rotor "swept area" in this way will greatly improve stopping power (leverage) and help to reduce high brake temperatures that can cause premature brake fade and poor pedal feel. Kits are available in 4 different component levels from as little as \$295.00, which leaves you no reason not to upgrade to larger brakes. *Kits include: 285 x 24mm vented (standard or cross-drilled) rotors, Mintex brake pad set (standard or M1144), caliper mounting brackets & hardware (fitment with most 15" and larger wheels -some require modification or spacers)*

### **Front R/S Brake Kit (283 x 24mm)**

**M417**

*includes standard rotors, standard Mintex pads, brackets & hardware*

### **Front R/S Brake Kit (283 x 24mm)**

**M417A**

*includes X-drilled rotors, standard Mintex pads, brackets & hardware*

### **Front R/S Brake Kit (283 x 24mm)**

**M418**

*includes standard rotors, M1144 Mintex pads, brackets & hardware*

### **Front R/S Brake Kit (283 x 24mm)**

**M418A**

*includes X-drilled rotors, M1144 Mintex pads, brackets & hardware*

## ▲ C BAT/Wilwood Front Brake Kit (283 x 24mm) XR4ti

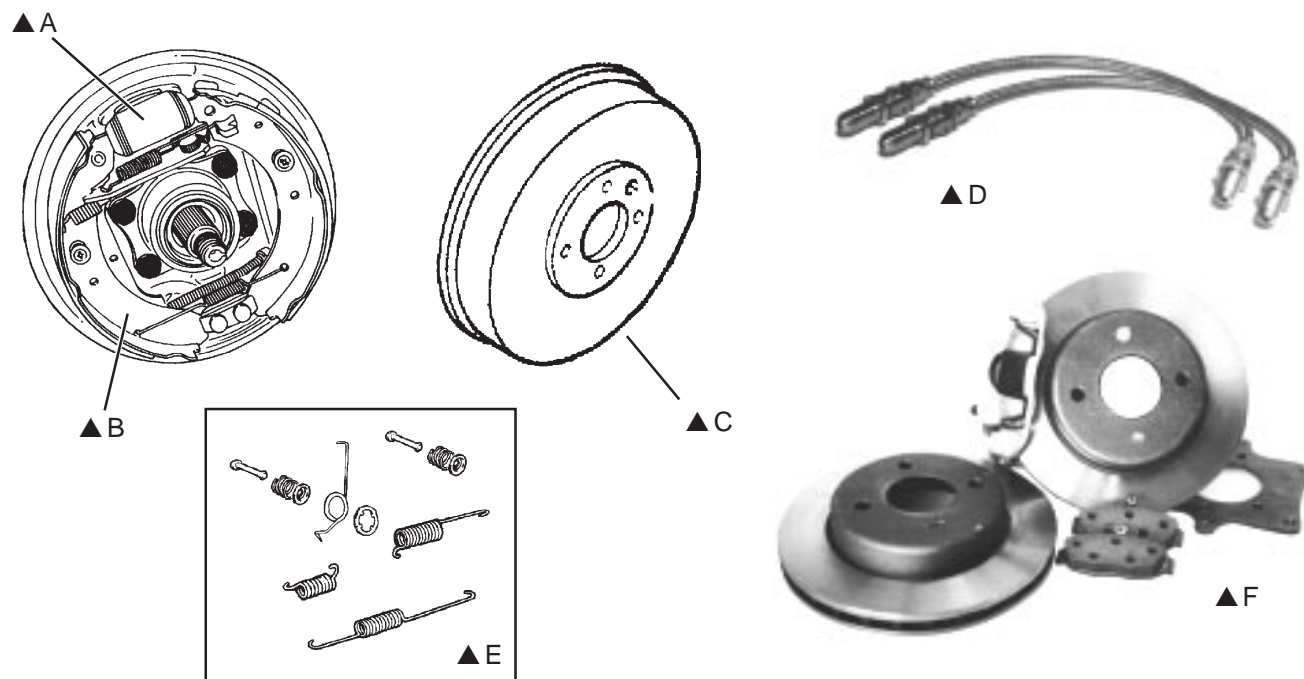
This kit combines the performance of the larger 283mm Cosworth rotor with Wilwood 4 piston Superlite 2A calipers which are extremely ridged and transfer torque directly without unwanted flex. Construction is aluminum with stainless pistons for both weight savings and maximum head dissipation. At just 5 lbs. they are also much lighter than stock calipers. This goes a long way to reducing "unsprung" weight benefiting both braking and handling performance. *Kit includes: 285 x 24mm vented rotors, 4-piston alloy Wilwood Superlite IIA calipers with pads and aeroquip brake hoses (fitment with most 15" and larger wheels - some require modification or spacers)*

**M416W**

## ▲ D BAT/Wilwood Front Brake Kit (300 x 24mm) XR4ti

This kit combines even larger 300mm Cosworth rotor with Wilwood 4 piston Billet Dynalite for the ultimate big brake kit. Calipers are extremely ridged and transfer torque directly without unwanted flex and are made from aluminum with stainless pistons for both weight savings and maximum head dissipation. At just 4 lbs. they are also much lighter than stock calipers. This goes a long way to reducing "unsprung" weight benefiting both braking and handling performance. *Kit includes: 300 x 24mm vented rotors, 4-piston alloy Wilwood Billet Dynalite calipers with pads and aeroquip brake hoses (fitment with some 15" & most 16" and larger wheels -some require modification or spacers)*

**M416W3**



*check price lists for SCORPIO versions of listed items*

▲ A **Rear Wheel Cylinder** Backing plates should be checked periodically for brake fluid drips or a damp spot at the bottom (a sure sign of a leaky wheel cylinder). We recommend (and sell) only new replacement wheel cylinders because of the high incidence of failure found with re-manufactured units. **M420WC**

▲ B **Rear Brake Shoes** Our premium quality rear brake shoes are supplied as either European Motorcraft or Mintex brand. Both are new (non re-manufactured) high quality semi-metallic replacement linings, not the typical "white box specials". *Note: fitting reman rear shoes can be a problem as most we have seen have thicker than standard bonded linings making it difficult, if not impossible, to reinstall the drum.* **M420R**

▲ C **Rear Brake Drum** Brake drums that are warped or beyond minimum specification for wear should be replaced. New rear brake drums are sold each. **M420RD**

▲ C **Rear Brake Drum(Grooved)** These rear drums offer an extra degree of braking performance not found when using standard rear drums. Drums have 12 spiral grooves for maximum cooling and deglazing effect. Grooved drums are sold in handed pairs. **M420RDG**

▲ D **Aeroquip Rear Brake Lines** One of the more effective brake modifications you can make to the XR4 & Scorpio is to replace the standard brake hoses with Aeroquip steel braided lines. These performance brake hoses incorporate a teflon interior to keep line expansion "flexing" to a minimum. This greatly reduces the "spongy" pedal feel common to most brake systems. Our stainless lines are assembled from genuine Aeroquip AN-3 hose with premium metric "reusable" (not the lesser quality "swaged" type) hose ends installed.

**XR4 Rear Aeroquip Brake Line Set** **M419R**  
**Scorpio Rear Aeroquip Brake Line Set (4 lines)** **G419R**

▲ E **Rear Brake Parts Kit** This handy kit includes all of the small parts, springs and other attaching hardware for the rear drum brakes. One kit does both hand sides. **M420K5**

**Rear Brake Special** Our rear brake special has all the items (brake shoes, wheel cylinders & small parts kit) required for a complete rear brake overhaul, and all at a very attractive price. **M420RSPL**

▲ F **Rear Disk Brake Kit** Converting to rear disk brakes could not be any easier than with our ventilated rear disk conversion kit. Not only will braking performance be greatly improved but servicing the friction material (pads) becomes a much easier task than messing with the old shoes. Kit includes: calipers & mounting plates, vented 260mm rotors, brake lines, hand brake cables, and assorted hardware. **M420RK**

*Note: see price list for individual listings on service parts for above rear disk brake kit.*

**XR4 & Scorpio Hand Brake Cables** We have replacement hand brake cable assemblies for both the XR4Ti and Scorpio. These have been recently discontinued by Ford USA.

**Hand Brake Cable XR4Ti** **M564**  
**Handbrake Cable Scorpio** **G564**

**Cosworth Hand Brake Cable** required for fitting a Cosworth rear brake conversion to the XR4 or servicing cars with existing Cosworth rear brake cables. **Z16567**

**Scorpio Rear Brake Components** BAT also stocks brake components for servicing and upgrading the rear brakes on the Merkur Scorpio.

**Rear Rotor (standard)** **G425R**  
**Rear Rotor (cross drilled)** **G425RCD**  
**Rear Caliper (left or right)** **G420RL/RR**  
**Rear Pad Set** **G420R**



▲ A



▲ A **Racing Brake Fluid** Not all brake fluid is created equally. High operating temperatures at the caliper transfers extreme heat through the piston causing lesser quality brake fluid to boil. This in turn allows the fluid to become compressed and reduces overall braking performance. The best way to counter this from happening is to use a racing specification, mineral (never synthetic) brake fluid and flush the system after each event for competition or annually on performance street driven vehicles. Both AP550 and Wilwood 570 brake fluid is DOT approved with a dry boiling point of 550-570 degrees, low viscosity minimizes aeration and permits easy bleeding.

**Brake Fluid AP Competition (16.9oz. 500ml.)**

**MC550**

**Brake Fluid Wilwood 570 (12oz. 355ml.)**

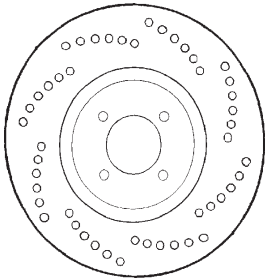
**MC570**

**Brake Fluid Wilwood 570 (6 Pack)**

**MC57-6**

**Brake Fluid Wilwood 570 (24 Case)**

**MC57-C**



▲ B



▲ B **Cosworth & Scorpio Rotors** For those fortunate few who own Cosworth Sierras or have converted XR4's to Cosworth type front or rear brakes and are in need of replacement rotors we have them. Scorpio front or rear rotors in standard and cross drilled are also available. (see price list page 31)

**Cosworth Front 283 x 24mm standard, X-drilled, grooved**

**Cosworth Rear 273 x 10mm standard, X-drilled, grooved**

**Scorpio Front 260 x 24mm standard or X-drilled**

**Scorpio Rear 253 x 10mm standard or X-drilled**

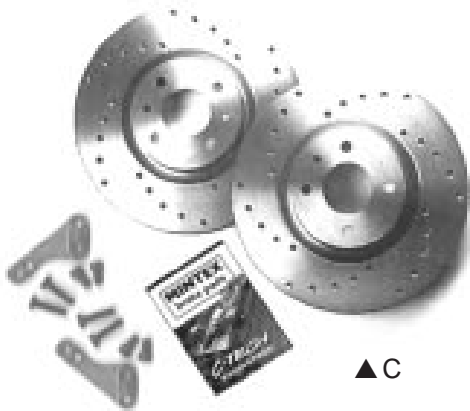
**Performance Brake Kits** Engineered competition brake kits for the ultimate in stopping power.

▲ C **Front R/S Brake Kit (283 x 24mm)**

BAT R/S "big brake" kit allows larger 11.25" (285mm) brake rotors to be fitted with standard XR calipers. Increasing rotor "swept area" in this way will greatly improve stopping power (leverage) and help to reduce high brake temperatures that can cause premature brake fade and poor pedal feel. *Kit includes: 285 x 24mm vented (standard or cross-drilled) rotors, Mintex 1144 brake pad set, caliper mounting brackets & hardware (fitment with most 15" wheels - some require slight modification)*

*kit supplied with standard rotors* **M418**

*kit supplied with cross drilled rotors* **M418A**

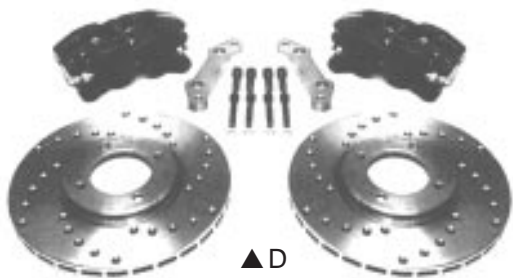


▲ C

▲ D **Front Brake Kit (283 x 24mm) w/4 Piston Calipers**

Combine the performance of the R/S large rotor kit with 4 piston calipers for the ultimate in stopping power. *includes: 283 x 24mm vented rotors, 4-piston alloy Wilwood Superlite 2A calipers with pads. (fitment with most 15" wheels -some require modification or spacers)*

**M416W**



▲ D

▲ D **Front Brake Kit (300 x 32mm) w/4 Piston Calipers**

For those who are looking for the ultimate brake performance. Quite simply the largest and most competent competition type brake kit that can be fitted to the XR4. *includes: 300 x 32mm vented rotors with light alloy hats, 4-piston alloy Wilwood Superlite IIA calipers, caliper mounting brackets & hardware*

**M417A**

**(this kit also available for Scorpio !)**

**G417A**

**Rear Kit (XR4 w/16" wheels) 300 x 21mm**

**(See Price List)**

*includes: 300 x 21mm vented rotors with light alloy hats, 4-piston alloy Wilwood Superlite 2A calipers, caliper mounting brackets & hardware*

▲ E **Wheel Bearings** Genuine European Ford wheel bearing kits are complete with all required service parts to do a first class job. Each kit include bearings, races, seals and hub nuts to service one wheel.

**Front Wheel Bearing Kit (specify left or right) -XR4**

**M560F**

**Rear Wheel Bearing Kit (specify left or right) -XR4**

**M560R**

**Front Wheel Bearing Kit (specify left or right) -Scorpio**

**G560F**

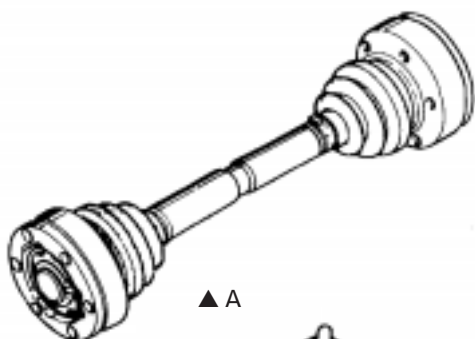
**Rear Wheel Bearing Kit (specify left or right) -Scorpio**

**G560R**

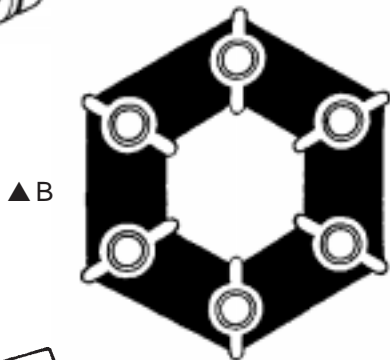


▲ E

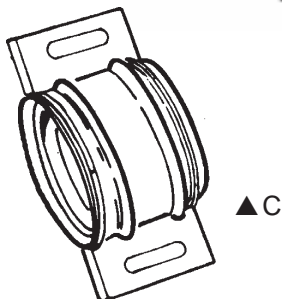




▲ A



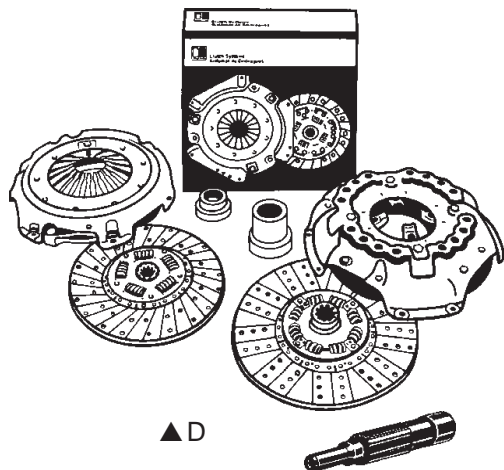
▲ B



▲ C



▲ D



▲ D

▲ A **Constant Velocity Joints & Boots** The Merkur XR4Ti and Scorpio independent rear axle assemblies utilize half shafts that have inner and outer constant velocity joints. Eventually these joints and protective boots will require service. We have joints and boots available separately making it economical to replace just the worn component without having to replace whole axle assembly. However, if more than one C.V. per axle requires service, our complete axle assembly is the more cost effective way to go. *Note: right/left inboard and outboard C.V. joints and boots are interchangeable- see price list for complete axle prices (handed left & right)*

**Constant Velocity Joint- XR4 & Scorpio**

M550B

**C.V. Boot Kit- XR4 & Scorpio**

M550BK

**Complete Axle(specify left or right)- XR4 & Scorpio**

M550L/R

▲ B **Rubber Drive Shaft Coupling** The rubber "Drive Donut" or "Rotoflex Coupling" on the XR4 and Scorpio drive shaft can be a real bugger. Many owners have contacted us after being quoted up to 500.00 to totally replace the complete drive shaft assembly by the local Ford L/M dealer, as they do NOT list the rubber drive coupling as a separate service part. We import the proper replacement drive coupling and make it available at considerable savings to you. If your car exhibits a driveline shudder that increases with speed, (especially noticeable in colder weather) we recommend taking a close look at the condition of the drive coupling. Cracks in the rubber or missing pieces will require immediate replacement, losing one of these joints at speed will be very messy ! *Note: BAT supplies the standard equipment XR4i drive coupling by the original supplier to Ford. This is not a lesser "fits all" component that just happens to be similar.*

**Rubber Drive Shaft Coupling- XR4 & Scorpio**

M17A

▲ C **Drive Shaft Center Support Bearing-** Replacement driveshaft center support bearing assemblies for XR4Ti and Scorpio.

**Drive Shaft Center Support Bearing- XR4Ti**

M550SB

**Drive Shaft Center Support Bearing- Scorpio**

G550SB

▲ D **Quaife Torque Biasing Differential** Quaife torque biasing differentials provide a constant and infinitely variable output to both rear wheels. These unique differentials utilize a series of helical gears which sense the amount of applied torque and adjust automatically for loss of traction. The Quaife limited slip design is also free of high wear items (clutches, ratchets and plates), making them stronger and more maintenance free than other types of limited slip units. Anyone who has had the pleasure of driving a vehicle equipped with a Quaife LSD will immediately comment on its smooth seamless performance, very unlike clutch/plate type LSD's which exhibit a notchy ratchet like take up through the drive line. The Quaife LSD that we offer is originally designed as a replacement upgrade for the Sierra Cosworth and are now supplied with output flanges tapped for either the large 108mm (Cosworth size) or smaller 100mm (XR4 size) C.V. joints.

**Quaife Limited Slip Differential**

M710

▲ E **Clutch Kits** We have a very good selection of clutch packages that include clutch disk, pressure plate, throw out bearing, and clutch alignment tools. Buying one of our engineered kits will guarantee best quality, performance, fitment (ease of installation) and price. First option is a new (not rebuilt or re-lined) O.E. quality replacement clutch kit by Sachs/Valeo. This clutch is best suited for standard or slightly modified cars being used under normal driving conditions. If your requirements are beyond the capabilities of the standard clutch we also have some heavy duty clutch kit options. H.D. clutch kits include pressure plates that have increased clamping force (from 30 to 50%) and clutch disks with high temperature friction materials applied. Centerforce H.D. clutch kits have a unique centrifugal pressure plate design with substantially more clamping force but requires very little pedal pressure over the stock clutch. *Note: all kits are for standard transmission 1" 23 spline except where noted.*

**Sachs Clutch Kit XR - best quality O.E. clutch**

M519K

**Sachs Clutch Kit Scorpio - best quality O.E. clutch**

G519K

**Sachs Clutch Kit XR w/ T5 Trans - 1 1/16" 10 spline for T-5 trans**

M519T5

**H.D. Centerforce Clutch Kit - uprated disk & 30% p. plate**

M519C

**H.D. Center Force II Clutch Kit - uprated disk & 50% p. plate**

M519C2

**Clutch Alignment Tool - 1" 23 spline for std. transmission**

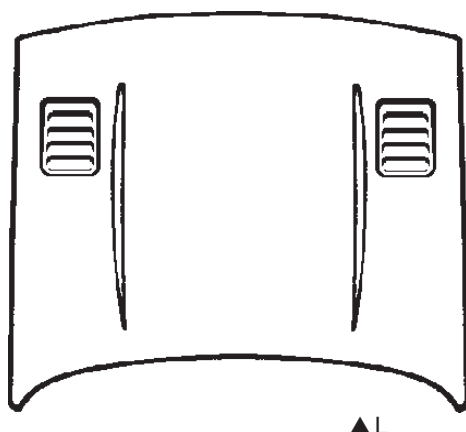
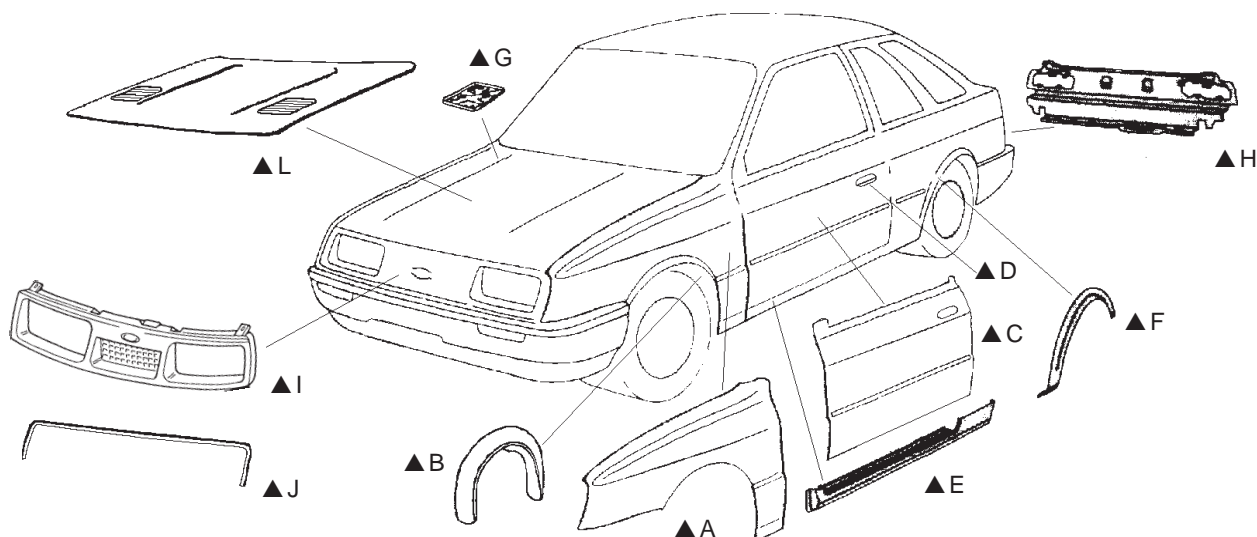
S11H

**Clutch Cable- XR4Ti**

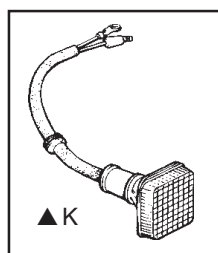
M562

**Clutch Cable- Scorpio**

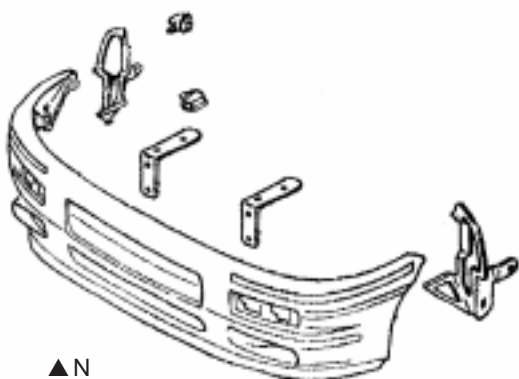
G562



▲ M



▲ K



▲ N

▲ A **Front Fenders** European Sierra fenders are a direct replacement for the XR4Ti and are an attractive alternative considering the high price of the American version. These fenders also include the holes required for side blinker mounting (see below). *Note: specify left or right when ordering* **M806 L/R**

▲ B **Inner Wheel Well Splash/Liners** Replacements for the commonly cracked, broken or missing inner fender splash on the XR4. Covers full inner wheel house area as original USA versions. *specify left or right* **M808L/R**

▲ C **Door Skin** - (specify left or right) **M807 L/R**

▲ D **Door Handle XR4 & Scorpio** - (specify left or right) **M362 L/R**

▲ E **Door Sill (Rocker Panel)** - (specify left or right) **M803 L/R**

▲ F **Rear Wheel Arch** - (specify left or right) **M804 L/R**

▲ G **Battery Tray** **M817**

▲ H **Rear Panel** **M815**

▲ I **Cosworth Front Grille** Nothing transforms the look of the XR4Ti quite like adding a Cosworth grille. Designed with a center opening, the Cosworth grille adds additional air flow to the radiator and A/C condenser for a cooler running engine and better air conditioning performance. An intercooler could also be fitted behind the grille opening as is done on the original Cosworth Sierra and R/S 500 models. *Note: Grilles are O.E. quality (injection moulded plastic) not shoddy fiberglass replicas. Suppled (primed) un-painted- includes "Ford" emblem* **M320**

▲ J **Grille Surround Gasket** This gasket will almost always need to be replaced when fitting a new grille. **M320S**

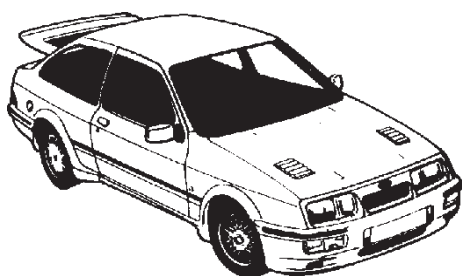
▲ K **European Side Blinker Lamp Kit** Add an extra degree of safety when signaling to turn. Side blinkers fit above European fenders without modification and can also be fitted to standard Merkur XR4Ti fenders by drilling a mounting hole. Kit includes (2) lamps, wiring and templates. **M317**

▲ L **Cosworth Hood** Original equipment Ford Sierra Cosworth hoods are designed to receive hood vents/louvers for additional under hood cooling. These hoods look quite distinctive as the raised center section is lower and wider than on the standard XR4 hood giving the car a more aggressive appearance. **M813**

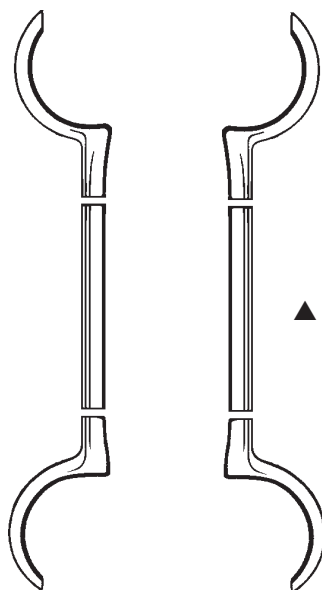
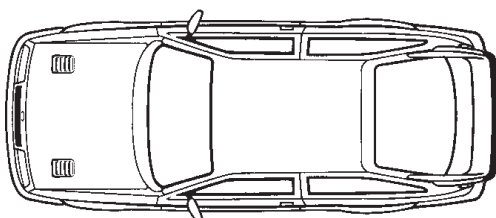
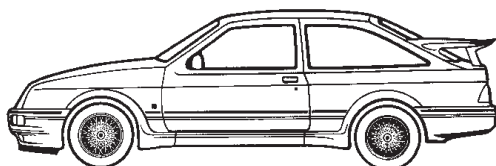
▲ M **Cosworth Hood Vents** Hood louvers/vents are both visually striking and functional as they help to ventilate the engine compartment. These O.E. Ford vents (pair) bolt into the Cosworth hood (above) or can be fitted to standard hoods by cutting a hole and bonding them in place. (see pg 11 for fiberglass versions) **M814**

▲ N **Cosworth Front Spoiler/Bumper** We supply everything required to install the stunningly attractive Cosworth Sierra front spoiler/bumper to your XR4Ti. All components are original Ford including; bumper, bumper bar brackets, lower side fender mounting panels, fog lamps, turn signal lamps, and assorted hardware (clips & fasteners). *Note: bumpers are supplied in white- can be painted to match other colors.* **M353**

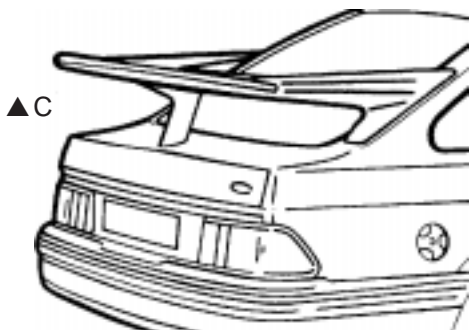
(R/S 500 Version) **M353RS**



▲ A



▲ B



▲ C

### ▲ A Replica Cosworth Body Components

Fiberglass body panels are an alternative to the more expensive, and becoming unavailable, factory Ford versions. We have searched far and wide to import only the highest quality fiberglass replica bodywork. Even so, fiberglass is more prone to incidental damage (cracking) than the more flexible ABS plastic or urethane original Ford components. Also keep in mind that fitting is totally DIY and most items will require paint prep work, fabricated brackets and other hardware. *Important Note: We often hear horror stories from customers who have ordered similar fiberglass items from European mail-order suppliers only to receive broken or substandard components, and now you own it! Worse yet, the shipping costs involved importing large, bulky, items like these can far exceed the cost of the part, and what started out as a bargain now has become a expensive learning experience. Our pricing on all items, including sheet metal & body panels, includes inbound freight from Europe. Once here, some items that are too large for UPS (or other carriers) will be shipped truck freight collect, we will also extend our 25% C.F. Motor Freight discount.*

Front Spoiler Bumper (R/S Cosworth type)	M353F
Front Spoiler Bumper (R/S 500 Type) with lower "splitters"	M353FA
<i>*lower chin spoiler moulded in on lower edge</i>	
Rear Bumper (R/S Cosworth type)	(See Price List)
Rear Wing Airfoil (R/S Cosworth type) see information below	M306F
Rear Wing Airfoil (R/S 500 type)	M306FA
Lower Rear Wing (R/S 500 type)	M306L
Cosworth Wheel Arches (4) & Side Skirts (2) see information below	M302F
Cosworth Hood (complete with vent louvers)	(See Price List)
Hood Vent Louvers (2) fiberglass (functional)	M814F
Hood Vent Louvers (2) stick-on ABS plastic (non functional)	M814FS

### ▲ B Cosworth Sierra Arches & Skirt

Sadly the factory Ford wheel arches have recently become unavailable. Some side skirts still remain but for the most part the R/S arches and skirts have gone the way of all the factory R/S 500 stuff "not available- not replaced". In place of the originals we can offer a reasonable cost & quality fiberglass alternative wheel arch and side skirt kit. For anyone searching out new factory arches and skirts we might still have a couple odd arches & skirts available (no full sets) call for more information & pricing.

**Cosworth Wheel Arches (4) & Side Skirts (2)- fiberglass** **M302F**

### ▲ C Cosworth Rear Airfoil

One of the trademarks of the Cosworth Sierra is its large rear wing/airfoil. Perhaps a bit gaudy for some tastes, none the less it does a great job at keeping the rear end planted. At speeds over 100mph as much as 45 lbs. of downforce is created for added high speed stability. Anyone interested in this item had one of two choices. The factory Ford Cosworth rear wing/airfoil (still available from Ford Europe) but at over \$1800.00 who can afford it. Or the usual aftermarket fiberglass versions, although much cheaper in cost the quality suffers greatly. When we sampled most of these we were genuinely concerned that some of the replica wings might come apart, or even fly off at speed! This dilemma prompted us to undertake manufacturing a super high quality fiberglass replica that solves all the above problems. It is extremely well built, can be securely attached to the car and is attractively priced. *Note: rear wings are designed to fit smaller hatch 1985-87 cars- the mounting foot will overhang on the hatch glass molding on later cars and will have to be trimmed.*

**Rear Wing Airfoil (R/S Cosworth type)** **M306F**  
*see above section for larger RS500 version*

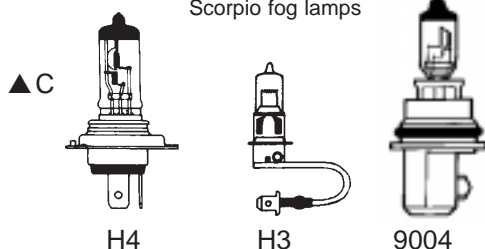




(↑ XR) ▲ B (Scorpio ↓)



Scorpio fog lamps



▲ A **European Emblems & Badges** Re-badge your XR4 with Ford ovals and Sierra emblems or put the finishing touches on that Cosworth clone. Genuine Ford European logos will distinguish your XR4 or Scorpio from the rest. Location (on car) for emblems and sticker logos are listed below. Emblems are chrome and black plastic with self stick backing. Stickers can be applied to metal or glass surfaces.

Sierra (emblem) rear hatch left	M321S
Sierra XR4i Red (sticker) rear hatch left	M352R
Sierra XR4i Anthracite/Gray (sticker) rear hatch left	M352A
Sierra R/S (emblem) rear hatch left	M321RS
Cosworth (emblem) rear hatch left under Sierra R/S emblem	M321C
Sierra R/S Cosworth (sticker) rear hatch left	M352C
R/S (emblem) side fender XR & Scorpio	M352RS
Ghia- crest (emblem) side fender XR & Scorpio	M352G
Oval "Ford" (emblem) front grille center & rear hatch right	C321
"Ghia"- script (emblem) Scorpio rear hatch	G352G
2.9i (emblem) Scorpio rear hatch	G352L
Scorpio (emblem) Scorpio rear door sail panel	G352S

▲ B **European Headlamps** The standard US spec. XR4 & Scorpio headlights were pretty poor when new, and get worse with age- especially when the lenses turn cloudy. European headlamps will provide a significant increase in light output and they look great too. These lamps utilize all glass lensing with a halogen H-4 55/60 watt bulb for high/low main beam operation, and a halogen H-3 55 watt bulb for the built-in driving lamp. *Note: Lamps are supplied in right hand drive (English) specification which has a subtle different low beam flair pattern, however, this is not very noticeable. If required left hand (German) type lenses are available separately (see price list). We recommend installing the lamps first before opting to swap out the lenses as most customers do not bother.*

<b>Sierra XR4 European Headlamp Kit*</b>	M318
<i>*kit includes (2) lamps, rear bulk heads panels, bulbs &amp; wiring instructions</i>	
<b>Scorpio* European Headlamp Kit</b>	G318
<i>*kit includes (2) lamps, left &amp; right lamp lamps/indicators &amp; front grille sections, bulbs, and wiring instructions</i>	
<b>Scorpio Fog Lamp (LH)- complete replacement assembly</b>	G349L
<b>Scorpio Fog Lamp (RH)- complete replacement assembly</b>	G349R

▲ C **Head Lamp Bulbs** Replacement and higher wattage bulbs for above European headlamps and standard XR4 & Scorpio aerolamps. Headlamps- H4 bulbs are fit eurolamps (not stock headlamps), 9004 bulbs are for use with standard XR4Ti & Scorpio aerolamps. Fog lamps- H3 bulbs are suitable for eurolamps and Scorpio, 880 bulbs fit *only* XR4Ti fogs. Krypton gas 9004 "Bright White" bulbs burn brighter with more luminous output than standard halogen type bulbs. "Blue Ion" bulbs project a, low glare, blue tinted beam- definitely a different look!

H4 55/60 watt (for high/low main beam)	Z H455/60
H4 55/100 watt (for high/low main beam)	Z H455/100
H4 80/100 watt (for high/low main beam)	Z H480/100
H3 55 watt (for fog & driving lamps)	Z H355
H3 100 watt (for fog & driving lamps)	Z H3100
880 50 watt "Blue Ion" 50 watt (for XR4Ti fog lamps)	Z 880/50B
880 50 watt "Amber" 50 watt (for XR4Ti fog lamps)	Z 893/50G
9004 "Bright White" 45/65 watt (for high/low main beam)	Z 9-45/65W
9004 55/100 watt (for high/low main beam)	Z 9-55/100
9004 80/100 watt (for high/low main beam)	Z 9-80/100
9004 "Blue Ion" 55/100 watt (for high/low main beam)	Z 9-55/100B
Relay (Hella) 12 volt- (2) required w/ 80/100 bulbs	Z Relay12

▲ D **Rear Tail Lamp Seals & Lamp Sockets** Puddles in the trunk or damp carpeting might be due to leaking rear tail lamp seals. Non-functioning tail lamps are usually due to corroded lamp sockets. We have new replacements for both these USA Ford unavailable parts.

<b>Left or Right Tail Lamp Seal- XR4</b>	M319S
<b>Left or Right Tail Lamp Socket- XR4</b>	M319LS



▲ D



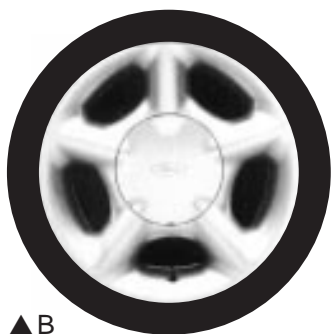
▲ E

The XR4 is a unique application for road wheels. They are designed for use with (hub-centric) wheels in a 35-40mm offset- not the most common application here in the USA. We import factory Ford European Ford "Rally Sport" brand wheels, or proven aftermarket applications, that we know fit the car properly.

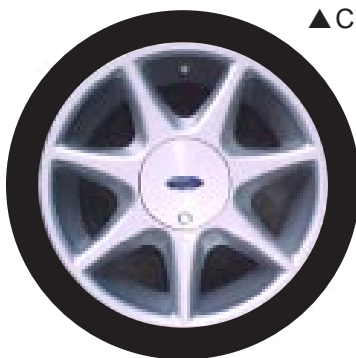
▲ A **6-Spoke R/S Wheel** Advanced styling with flat flush spokes, silver color- clear coat finish for added protection, locking center cap w/ R/S logo.

**6-spoke R/S Wheel (available sizes)**  
(15" x 7" , 16" x 7")

**\$209.00 each**



▲ B



▲ C

▲ B **5-spoke Cosworth Wheel**

Original equipment on Cosworth Escort- optional on Mondeo in Europe (similar to 1998 SVT wheel) silver color- clear coat finish for added protection, center cap w/ Ford oval.

**5-spoke Cosworth Wheel (available sizes)**  
(15" x 6")  
(16" x 6.5", 16" x 7")

**\$195.00 each**  
**\$209.00 each**

▲ C **7-Spoke "Soft Effect" Wheel** Flush spoke, silver color- clear coat finish for added protection or optional chrome finish, locking center cap w/ Ford oval.

**7-spoke "Soft Effect" Wheel (silver) available sizes**  
(15" x 6", 15" x 7", 17" x 7.5") **\$209.00 each**  
**7-spoke "Soft Effect" Wheel (chrome) available sizes**  
(15" x 6", 15" x 7", 17" x 7.5") **\$309.00 each**

▲ D **5-Spoke R/S Wheel** Bright diamond cut silver face with anthracite gray on sides of spokes, clear coat finish for added protection, locking center cap w/ R/S logo.

**5-spoke R/S Wheel (available sizes)**  
(15" x 7", 16" x 7", 17" x 7.5")

**\$209.00 each**

▲ E **5-Spoke SVT Wheel** These are original equipment 1999 SVT Contour (16" x 6.5" size) and 2001 Focus SVT (17x7") wheels.

**5-spoke SVT Wheel (16" x 6.5")**

**\$135.00 each**

**5-spoke SVT Wheel (17" x 7.0")**

**\$135.00 each**



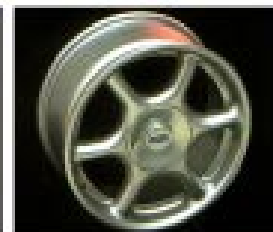
▲ F



▲ H



▲ G



▲ I

▲ F **5-Spoke Motorsport Wheel** Exclusive for Ford by Compomotive. Five Spokes with Motorsport logo on one spoke, carbon look center cap w/ singel hex nut center.

**5-spoke Motorsport Wheel (silver)** **\$249.00 each**  
**available sizes (15" x 6" or 16" x 7") ET 35/38mm**

▲ H **Turbine Wheel** Exclusive for Ford by Compomotive. Flush face turbine style wheel.

**Turbine Wheel (silver)** **\$249.00 each**  
**available size (16" x 7") ET 38mm**

▲ G **5-Spoke RE Wheel** Exclusive for Ford by Compomotive. "RE" Wheel (silver) **\$189.00 each**  
**available size (15" x 6") ET 35mm**

▲ I **6-Spoke FLN Wheel** Exclusive for Ford by Compomotive. "FLN" Wheel (silver) **\$189.00 each**  
**available size (16" x 7") ET38mm**



### **4 Spoke "Turbo" Wheel**

Stylish 4 spoke "Turbo" wheel available in 16" diameter with either a 6" or 6.5" width. Finish is bright silver. We highly recommend these factory Ford wheels for guaranteed quality fit and finish. Center cap included.

### **4 Spoke "Turbo" Wheel**

<b>16 x 6"</b>	<b>\$195.00</b>
<b>16 x 6.5"</b>	<b>\$195.00</b>



### **TW "Thrust" Wheel**

10 spoke "Thrust" light alloy wheel with a locking center cover. Available in charcoal grey with polished silver lip in 15 x 7" size. A great looking wheel at a budget price.

### **TW "Thrust" Wheel**

<b>15 x 7"</b>	<b>\$109.00</b>
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### **2 x 4 Spoke Wheel**

Stylish 2 x 4 spoke wheel available in 16 & 17" diameters from 6.5" to 7.5" widths. Finish is bright silver. We highly recommend these factory Ford wheels for guaranteed quality fit and finish. Center cap included.

### **2 x 4 Spoke Wheel**

<b>15 x 7"</b>	<b>\$209.00</b>
<b>16 x 6.5"</b>	<b>\$209.00</b>
<b>17 x 7.5"</b>	<b>\$209.00</b>

### **Wheels FYI**

We offer only direct fit wheels for the Contour in the 4 x 108mm pattern and 35-40mm offset range. Most are factory Ford or Ford Motorsport authorized wheels which guarantees quality fit and finish. BAT imports these wheels directly from Europe and our prices include all inbound freight charges. Outbound freight from our location to you by UPS ground will cost between 30.00 to 50.00 per set of 4 wheels- depending on your location. Please note: We often hear horror stories from customers who have ordered wheels from European mail-order suppliers only to receive damaged or substandard components, and now you own it! Sending it back or trying to get the freight carrier to pay for the damage is next to impossible they will just claim it was "improperly packed" or "it wasn't that way when it left here". Worse yet, the shipping costs involved importing large, heavy, items like wheels can far exceed the cost of the part (expect 50.00 to 100.00 per wheel) What started out as a bargain now has become a expensive learning experience. Avoid the hassles, let us supply your wheels to your door at a fair price. When you do the math you will find we are saving you money.

### **ST200 Wheel**

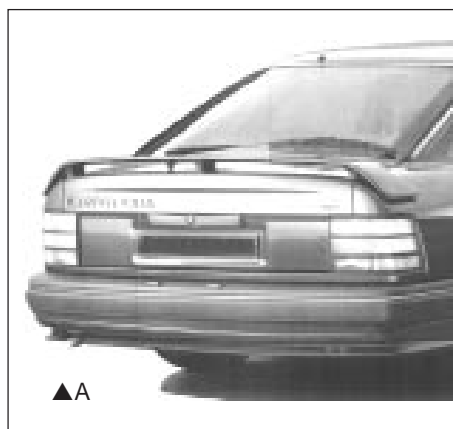
Stylish 14 spoke wheel available in 17" diameter with a 7" width. Factory equipment on the Mondeo ST200. Finish is bright silver. We highly recommend these factory Ford wheels for guaranteed quality fit and finish. Center cap included. (wheel might requite a spacer for XR fitment)

**ST200 Wheel 17 x 7"**

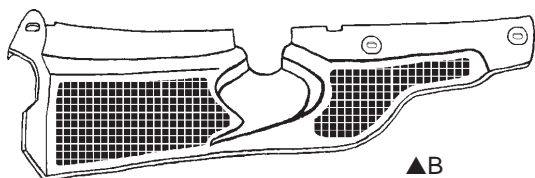
**\$209.00 each**



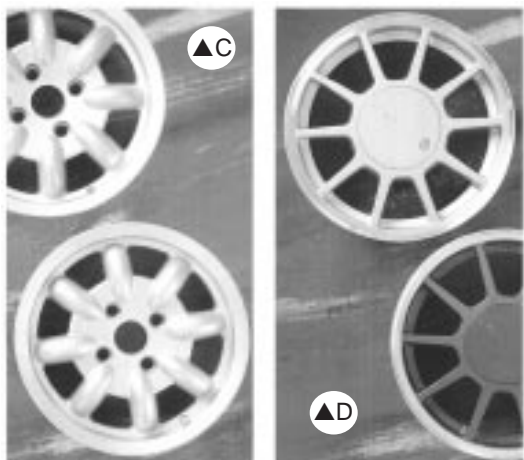




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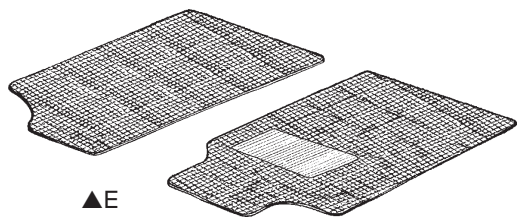


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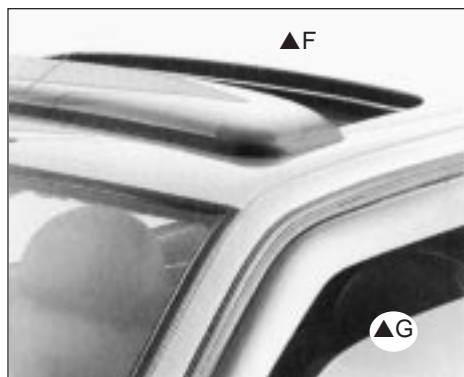


▲C

▲D



▲E



▲F

▲G

▲ A **Scorpio R/S Rear Wing** This hot looking rear wing goes a long way in transforming Scorpio's look. For installation R/S wings will require painting to match your cars color, and some mounting holes from the standard spoiler will need to be filled and spot painted. Also note that a rear brake light will need to be located elsewhere in the rear window. **G306**

**Scorpio R/S Side Skirts** Matching Rally Sport rocker panel side skirt set looks great with above rear wing or without. Other than just good looks, side skirts help to keep the door sides and rockers cleaner and with less stone chips. Easy to fit, paint and install. **G302S**

▲ B **Scorpio Cowl Cover** What is it, and why doesn't my car have one? This is a commonly asked question regarding this item. Ford equipped very few Scorpios bound for the US market with these European cowl covers. This moulded plastic cover keeps dirt, debris and small animals from winding up in the ventilation fan and associated duct work. Clean out this area once and for all, then install a new cowl cover- your Scorpio will thank you. **G369C**

▲ C **Mini-Lite Wheels (15" x 7") for XR4** Cars of English heritage, XR4's included, look great on classic Mini-Lite type wheels. These wheels are both lightweight and attractive with a bright silver clear coat finish. Specifications: 4 x 108mm pattern, 15" x 7" size, 38mm offset, 18lbs each, center caps included. **M411M**

▲ D **Thrust Wheels (15" x 7") for XR4** We are often asked to supply inexpensive road wheels, and here they are. The Thrust is a 10 spoke light alloy wheel with locking center cover, available in either silver, or charcoal w/silver lip. You will not find a better quality, proper wheel fitment for the price. Specifications: 4 x 108mm pattern, 15" x 7" size, 35mm offset, 18lbs each, locking center covers included. **M411T**

▲ E **Floor Mats** Foul weather mats, commonly referred to as "ice cube trays" or "waffle mats", are made of heavy duty rubber with small compartments to catch melting ice, water, mud etc. from your shoes or boots. These Euro. Ford mats are the best protection for your interior for the winter months or when going afield. Can be placed over standard plush mats or directly on carpeting. When dirty or filled with water- remove, drain, hose off, and reinstall. Front mats will fit both XR4 and Scorpio, rear mats are for XR4 only.

Front Mat set **M1010**

Rear Mat Set

**M1011**

**First Aid Kits** We are often asked to supply the First Aid kits that Ford equips new cars with in Europe. Includes more than just a selection of "Band-Aids". Think of it as good insurance. **M102**

**Fuse Box Covers** A common breakage item on XR4's. We have new European Ford replacements. **M474**

▲ F **Sunroof Wind Deflector** The buffeting effect, and wind noise, that takes place with the sunroof open at speed can be eliminated with a Sunroof Wind Deflector. Tinted smoke (grey) acrylic, fits both XR4 and Scorpio- hardware included. **M307**

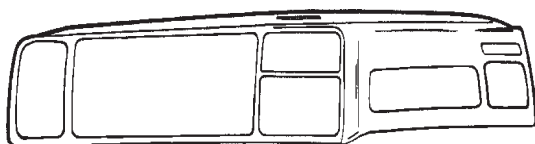
▲ G **Side Window Wind Deflector for XR4** A similar product to the Sunroof Deflector the Side Window Deflector keeps the wind noise levels to a minimum while allowing maximum ventilation. Effective even in light rain! Tinted smoke (grey) acrylic, easy installation- no holes to drill. For XR4 only- sold in pairs. **M340WD**



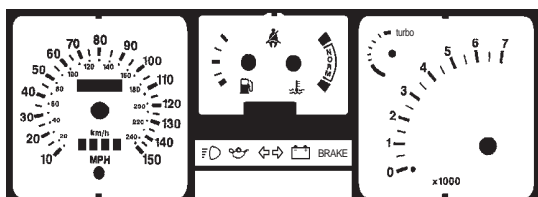
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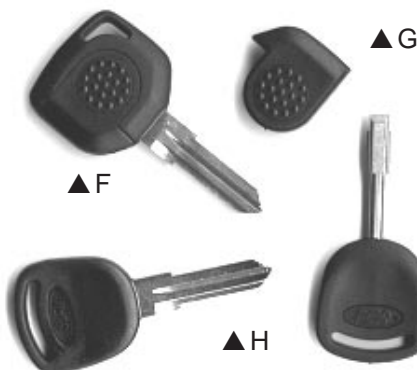
▲ C



▲ D



▲ E



▲ F

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▲ H

▲ A **Cosworth Sierra Steering Wheel** This sporty 3 spoke design leather wrapped steering wheel is standard factory issue on the Sierra Cosworth and RS500 models. The smaller wheel diameter (13.9 inch) helps make the steering ratio more effective and the fatter rim grip offers both comfort and control. Wheel is available in black and included center horn button with Ford logo and horn symbol. **M322**

▲ B **Cosworth Sapphire Steering Wheel** This 3 spoke leather wrapped wheel from the Sierra Sapphire 4x4 steering wheel is a departure on the original Cosworth version. It's wider center spokes are positioned lower for comfortable hand position and a better view of the instrumentation. The smaller wheel diameter (13.9 inch) helps make the steering ratio more effective and the fatter rim grip offers both comfort and control. Wheel is available in black and included center horn button with Ford logo and horn symbol. **M322A**

**Standard Horn Button** for the standard XR4 steering wheel we have the European "Ford" oval logo horn button. Just the thing for finishing the interior off while fitting Ford logos to the exterior. **Z61551**

▲ C **Contoured Dash Overlay** just the ticket for covering up a cracked vinyl dash pads which are so common on the XR4 & Scorpio. This moulded plastic dash overlay is simple to install and covers up a world of sin, quickly returning the interior to its original splendor. *note: supplied in black can be easily painted to match interior color* (for XR4) **M323**

NEW (for Scorpio) **G323**

▲ D **White Gauge Face Set** Colored gauges are quite the rage. They add a very unique look to the interior, and are easy to read in daylight or when illuminated at night. We have a gauge face kit that will replace the standard (black) speedo, tach/boost, fuel and water temp, gauges and indicator lamps with a thick self adhesive mylar faces that are white in color. These gauge faces are manufactured specially for BAT by a original equipment instrument supplier to Ford, GM, Vauxhall so quality is outstanding. They illuminate from the rear "back light", just as the standard gauges, and will not opaque with age like typical cheap reproductions will. An added benefit of our gauge face kit is the speedo is calibrated beyond 85mph all the way to 150mph. Updating earlier cars with 85mph speedos is a snap. **(available spring 99) M341W**

▲ E **170 mph Speedometer** For the owners of land based cruise missiles we offer the original equipment Sierra Cosworth speedometer calibrated in mph (170 in white) and kmph (270 in yellow) with re-setable trip-meter. A slight bit of tweaking is required to fit. **M341A**

**150mph Speedometer** Sierra XR4's and later Merkurs came with a more realistic 150 mph speedometer which easily replaces the American (only calibrated to 85 mph) version. **M341**

**Dash Instrument Panel Bulb** lamp with (white) socket **M330L**

**Dash Warning Lamp Bulb** lamp with (gray) socket **M330WL**

▲ F **Torch Key & Battery** complete Ford key blank and lamp/battery. Torch key blanks and lamp batteries are also listed separately below. **C309KL**

**Torch Key Blank** replacement key blank for XR4 (less lamp) **Z61179**

▲ G **Lamp & Battery** lamp and battery for XR4 & Scorpio keys **C309KLB**

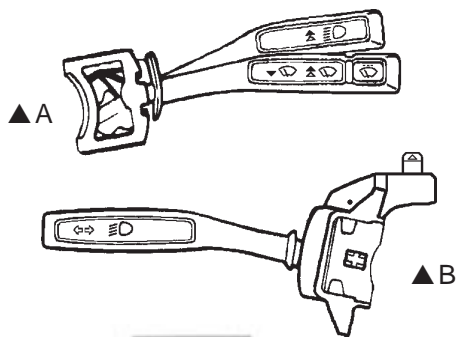
▲ H **Standard Keys** as an extra key or an alternative to the more bulky torch key, this European key blank has a molded plastic grip with wide ring slot with Ford logo. (for Scorpio) **G309K** (for XR4) **C309K**

**Hatch Lock Assembly** lock assem. w/housing & 2 keys **M815L**

**Hatch Striker** commonly required replacement item **M815S**

**Hatch Lock Retaining Clip** commonly required replacement item **M815C**

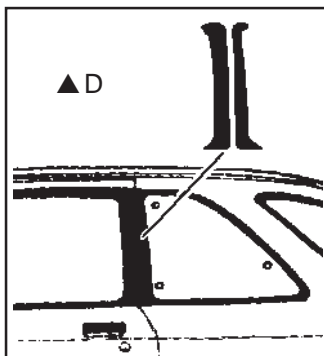
**Complete Car Lock Set** doors, hatch, ignition w/ 2 keys **M309LS**



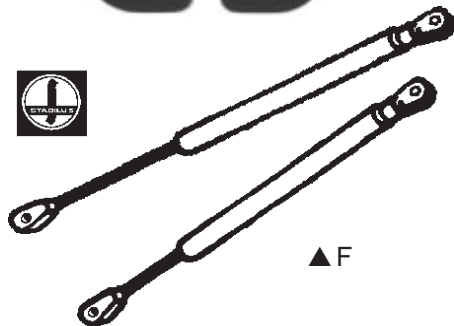
▲ C



fuse box cover



▲ E



▲ F

▲ G



▲ A **Windshield Wiper Headlamp Switch Stalk** We supply a new Ford Europe replacement for this commonly required electrical item. *Note: please check associated fuses before ordering- this item is not returnable.*

#### Windshield Wiper Headlamp Switch/Stalk (XR4)

M304

▲ B **Turn Signal Flash/Hazard Switch Stalk** We can supply a new Ford Europe replacement for this commonly required electrical item. *Note: please check associated fuses before ordering- this item is not returnable.*

#### Turn Signal Flash/Hazard Switch Stalk (XR4)

M305

▲ C **Fuse Box Cover** Missing, cracked, or not staying closed are all reasons to replace the fuse box (lid) cover on the XR4. Getting water in the fuse block can completely ruin a car or make for some very time consuming and expensive electrical repairs. Don't delay fixing this condition any longer, we have new Ford European replacements in stock.

#### Fuse Box Cover

M474

▲ D **Door Post Black-Out Trim (stick-on)** Is it time to replace the cracked or peeling door post black-out trim located between the door and rear quarter window ? We have high quality reproductions of this discontinued Ford item.

Left Side Door Post (black-out) Trim- 2 pieces

M340TL

Right Side Door Post (black-out) Trim- 2 pieces

M340TR

▲ E **Pedal Pads** The next time you give your cars interior a good detailing don't forget the finishing touches. New pedal pads not only improve the look of any interior, but are much safer too. Also it's not a bad idea to replace pedal pads right before entering a car show or selling a vehicle as smart buyers and judges will commonly check the pad wear as an indicator of how (hard) the car is driven.

Accelerator Pedal Pad- XR4 & Scorpio

M365A

Clutch Pedal Pad- XR4 & Scorpio

M365C

Brake Pedal Pad (manual)- XR4 & Scorpio

M365B

Brake Pedal Pad (auto)- XR4 & Scorpio

M365BA

▲ F **Rear Hatch Lift Struts** Have you resorted to using a wooden broomstick as a prop rod to hold up the rear hatch on your car ? If you answered yes you are a definite candidate for new hatch lift struts. XR4's and Scorpions have heavy rear lift gates (hatches) and when one or both lift struts are worn forget about having the thing stay up, let alone raise up slowly and unassisted as when they were new. BAT has new German manufactured lift strut replacements guaranteed to keep things on the up and up.

Rear Hatch Lift Strut- XR4 (each)

M308

Rear Hatch Lift Strut- Scorpio (each)

G308

▲ G **Rear View Mirror** Has your rear view mirror fallen off more times than you can count ? Don't mess around with nasty glues that only last a week before redepositing the mirror back on the floor. BAT has the correct Ford replacement day/night mirror with a (self stick peel-off) adhesive backing that should keep it attached for another 10 years.

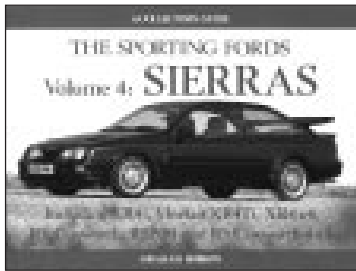
Rear View Day/Night Mirror- XR4 & Scorpio

C339

Replacement "Stick-on Pad" (for stock mirror)

M339S

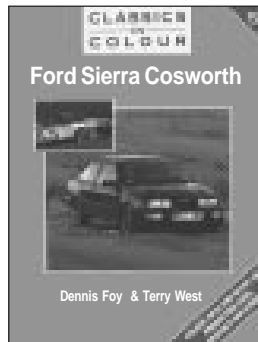
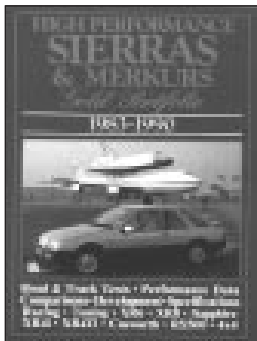




▲ A

▲ A **The Sporting Fords- Volume 4: Sierras** by Graham Robson. This book has comprehensive information on the development and history of all Sierra, Sierra Cosworth, and Merkur models. Chapters include production street and race versions of the cars, technical information and specifications, buyers and identification guide, performance figures and much more. *Hard bound 9 1/2" x 7 1/2"*, 128 pages, 131 black & white illustrations. **M207**

▲ B

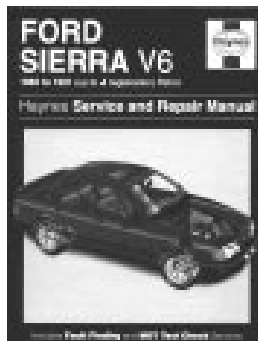


▲ C

▲ B **High Performance Sierras & Merkurs** by various authors. Packed with reprints of magazine articles, road tests of production and racing cars, data & comparisons, development, specifications, and tuning. Cars covered in this publication are Sierra, Sierra Cosworth, RS500, XR 4x4, and Merkur XR4Ti models. *Soft bound 8 1/2" x 11"*, 172 pages, 200 + black & white illustrations. **M206**

▲ C **Classics in Color - Ford Sierra Cosworth** by Dennis Foy & Terry West. A full color profile of the Sierra Cosworth line including R/S Cosworth, RS500, Cosworth 4x4, and Cosworth Sapphire. Great color photographs of both production and racing variants of these unique vehicles. *Soft bound 7 1/2" x 10*, 96 pages, 130 color illustrations. **M203**

▲ D

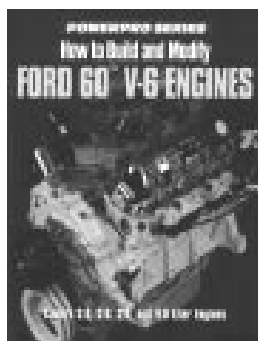
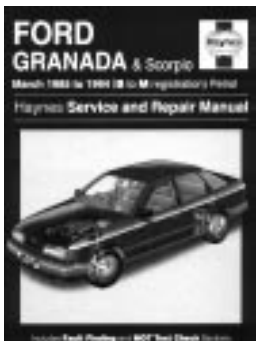


▲ E

▲ D **Workshop Manual- Sierra 1982-1992** by Haynes. Covers the European Sierra & Sapphire 4 cylinder models (except Cosworth). Lots of good information covering repair procedures (light-years ahead of Chiltons). Most sections, with the exception of the engine, are the same or similar to the US cars. An inexpensive alternative or addition to the American Merkur Manual. *Hard bound 8 1/2" x 11 "*, 250 pages **M204**

▲ E **Workshop Manual- Sierra XR4i (V6)** by Haynes. Similar to above, covers the XR4i & XR4x4 V6 equipped models. *Hard bound 8 1/2" x 11 "*, 250 pages **M204A**

▲ F



▲ G

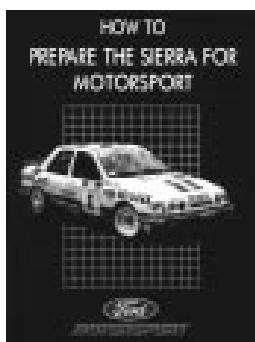
▲ F **Workshop Manual- Scorpio (V6)** by Haynes. Covers the European Scorpio/Granada V6 models- very similar to our US spec cars. A handy manual to have. *Hard bound 8 1/2" x 11 "*, 250 pages **G204**

▲ G **Build & Modify Ford V6 Engines** by Sven Pruett. A very well done build and tune book covering the V6 Ford 2.6, 2.8, 2.9, 4.0L engines. *Soft bound 8 1/2" x 11"*, 160 pages. **G202**

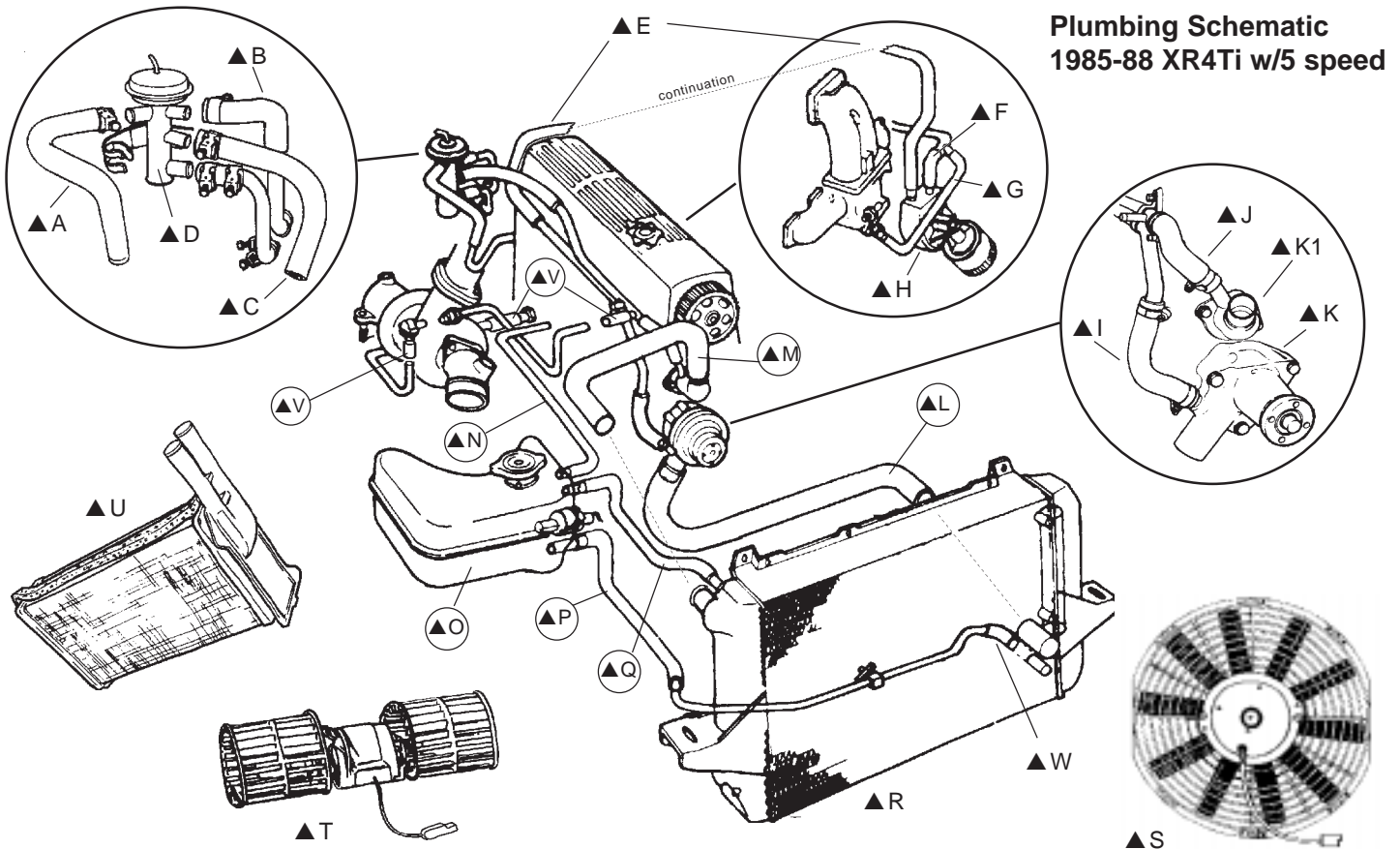
(Not Pictured) **Workshop Manual-Sierra & Escort Cosworth** original European Ford shop manuals (2 volume set) for the Cosworth cars. **M202**

**The Complete 2.3L Turbo EEC-IV Handbook** a comprehensive view of the engineering, performance characteristics, and troubleshooting for each component of the EEC-IV engine control system. **M209**

▲ H



▲ H **How To Prepare The Sierra For Motorsport** by Ford Motor Company Competition Department & Graham Robson. Complete guide to race preparing the European specification Sierra for motorsports competition. Chapters on modifying suspension, body, engine, driveline, brakes, clutch, and differential- including specifications and part number listings. *Soft bound 8 1/4" x 11 3/4"*, 147 pages, 150 black & white illustrations. **M205**



**Plumbing Schematic**  
1985-88 XR4Ti w/5 speed

The cooling system on the XR4Ti is fairly unique. If there is another car with more individual hoses in the cooling system, we have yet to see it. Compound this with the changes throughout the model run and it gets even more complex. We have a good inventory of the hoses and other cooling related components that fit 1985-87 XR4Ti and some (where similar or noted) for 88-1989 cars.

- ▲ A **Hose**- heater valve to pipe (leads to oil cooler) **M421HC**
- ▲ B **Hose**- heater valve to heater core **M421H**  
(note: ▲ B interchanges with ▲ J)
- ▲ C **Hose**- heater valve to pipe along valve cover (upper) at rear (note: ▲ C interchanges with ▲ F) **M421HB**
- ▲ D **Heater Valve**- heater control valve XR & Scorpio **M421V**
- ▲ E **Hose**- water pipe (lower) to oil cooler **M421HE**
- ▲ F **Hose**- oil cooler to water pipe (from heat valve) **M421HB**  
(note: ▲ F interchanges with ▲ C)
- ▲ G **Hose**- oil cooler to intake manifold **M421HD**
- ▲ H **Oil Cooler**- replacement water to oil heat exchanger **AWC1**
- ▲ I **Hose**- pipe along valve cover (lower) @ front to water pump. This one is a common problem. **M421HA**
- ▲ J **Hose**- pipe along valve cover (upper) @ front to thermostat housing (heater supply). Don't hit the road without an extra one of these! (note: ▲ J interchanges with ▲ B) **M421H**
- ▲ K **Water Pump**- quality replacement pump **L6A**
- ▲ K1 **Thermostat Housing**- H.D. cast Iron version **L2F**
- ▲ L **Hose**- radiator (lower) 1985-88 (MT & AT) **M421BH**
- ▲ L **Hose**- radiator (lower) 1989 (auto & manual) **M421BH9**
- ▲ M **Hose**- radiator (upper) 1985-88 (MT & AT) **M421TH**
- ▲ M **Hose**- radiator (upper) 1989 (MT & AT) **M421TH9**

▲ N **Hose**- expansion tank (top fitting) to valve cover pipe (note: shape of hose not accurate in drawing) **M421TT**

▲ O **Expansion Tank**- Thread-on cap (similar to Scorpio) Ford tanks, some with, or without, the fluid level sensor port. Tank caps, fluid level sensors, and sensor mounting parts are also available. (see price list for complete listing)

**Tank 1985-88 M421E Tank 1989 w/o sensor M421E9**

▲ P **Hose**- expansion tank (lower fitting) to radiator drain line **M421TL**

▲ Q **Hose**- expansion tank (middle fitting) to radiator (upper) **M421TM**

▲ R **Radiator**- O.E. type replacement radiators for 1985-89 manual or 1985-88 auto transmission XR4Ti's.

(1985-88 manual) **M421R** (1985-88 auto) **M421RA**  
(1989 manual) **M421R9** (1989 auto) **M421R9A**

**Mount/Bushing**- @ radiator top mounting location **M421RM**

▲ S **Electric Fan**- An alternative to the sometimes troublesome dual cooling fans on the XR4Ti, this highly efficient (1100 cfm) 16" electric "puller" fan does the work of both. Wire directly or use our (optional) adjustable 165-215 degree thermostat/relay pack.

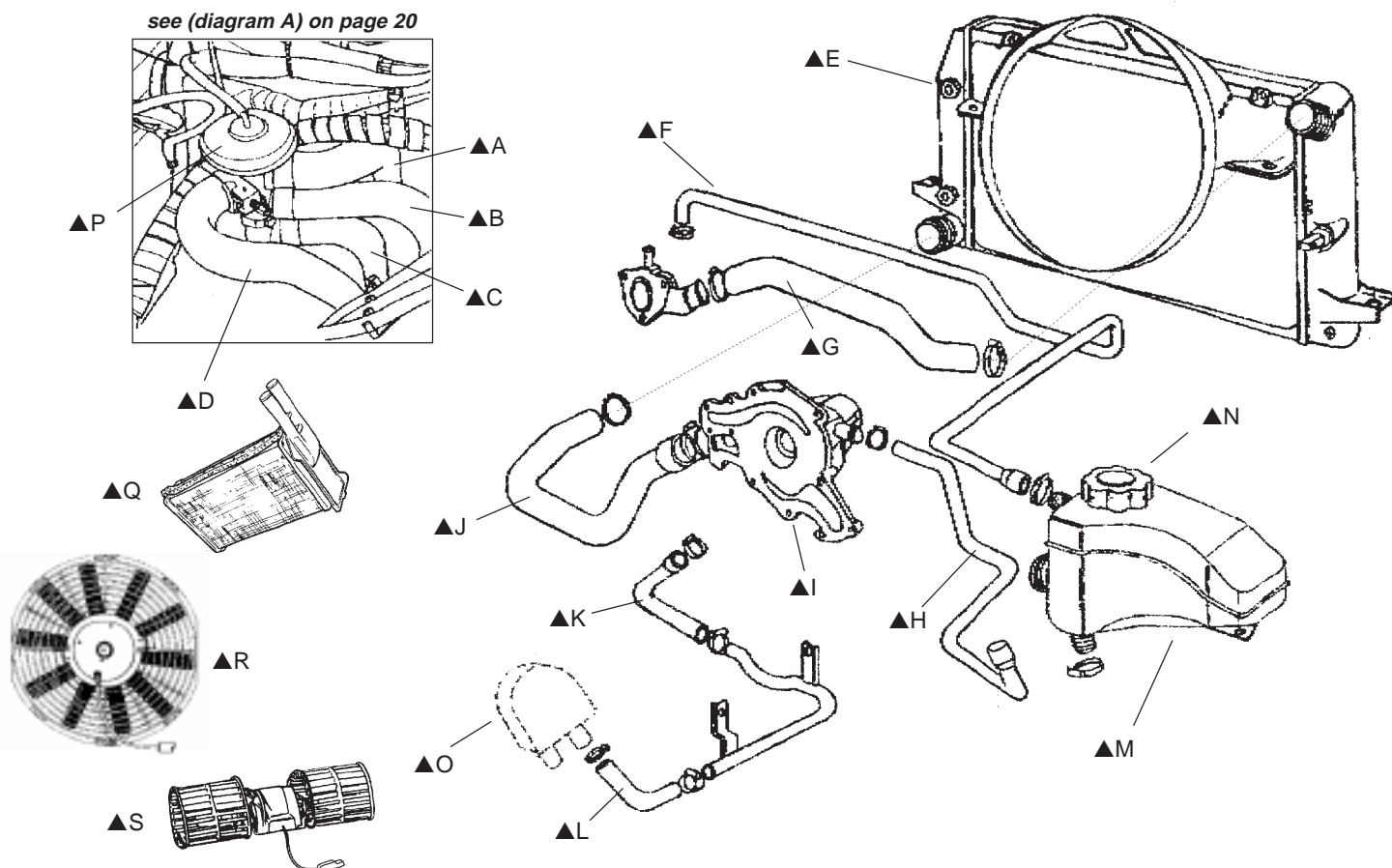
(16" puller fan) **A16F-PL** (thermo/relay) **AFTR1**

▲ T **Blower Motor & Fan A/C & Heater**- for heater and A/C, check fuse & relay first before ordering. **M470A**

▲ U **Heater Core**- New O.E. Ford heater cores. **M471**

▲ V **Turbo Water Hose**- high temperature CPE silicone hose for turbo (water) inlet/outlet pipes. (1 foot makes 3 hoses) **M421WT**

▲ W **Hose**- Lower drain pipe @ radiator lower **M421HF**

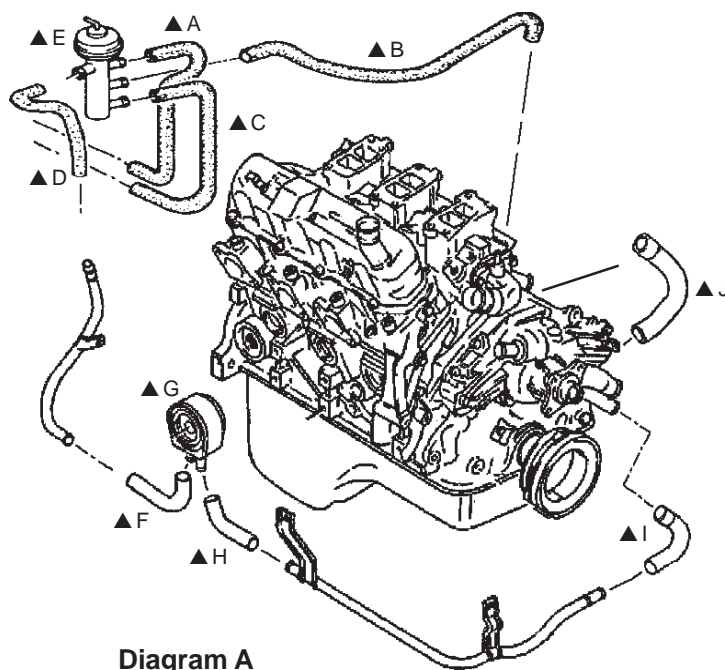


In addition to our stock of cooling system components for the XR4Ti we have added the various Scorpio related items to our inventory. The Scorpio's cooling system is only slightly less complicated than the XR4Ti's, it's only saving grace is the parts do not vary all that much from year to year. Again, as with the XR4, components that we offer are from the O.E. supplier or Ford originals.

- ▲ A Hose\*- heater valve (outlet) to heater core **G421HA**
- ▲ B Hose\*- heater valve to engine/inlet mfl'd. **G421HB**
- ▲ C Hose\*- heater valve (inlet) to heater core **G421HC**
- ▲ D Hose\*- heater valve to pipe **G421HD**
- \*for additional info see (diagram A) on page 20*
- ▲ E Radiator- new original equipment Ford radiators at a very attractive prices. Don't be mislead into buying substandard fabricated or fits-all radiators when we can supply new Ford ones for less. **G421RA**  
(for automatic trans.)  
(for manual trans.) **G421R**
- ▲ F Hose- coolant tank to thermostat housing **G421HF**
- ▲ G Hose- top radiator hose (88-89) **G421TH**
- ▲ G Hose\*- top radiator hose (89 late) has vent air bleed in line (includes bleed screw). **G421TH-9**
- \*for additional info see (diagram B) on page 20*
- ▲ H Hose- tank (lower) to water pump **G421HH**
- ▲ I Water Pump- new Ford water pump **G421**
- ▲ I Water Pump- high quality reconditioned water pump on Ford core. **G421A**
- Hose\*- bypass from water pump to inlet mfl'd. **G421HP**
- \*for additional info see (diagram A) on page 20*

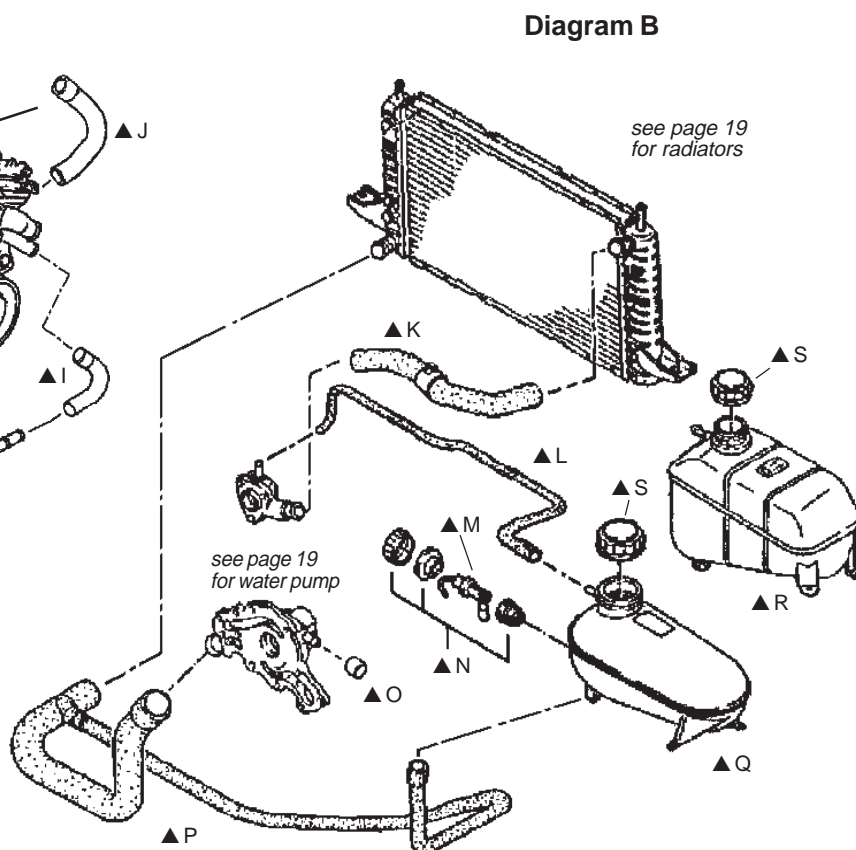
- ▲ J Hose- lower radiator hose 88-89 **G421BH**
- ▲ J Hose\*- lower radiator hose (89 late) has additional tee off hose running to overflow tank @ lower bung **G421BH-9**
- \*for additional info see (diagram B) on page 20*
- ▲ K Hose\*- to oil cooler pipe **G421HK**
- ▲ L Hose\*- oil cooler pipe to oil cooler **G421HL**
- \*for additional info see (diagram A) on page 20*
- ▲ M Coolant Tank- Cracked and leaking overflow tanks are a common problem on the Scorpio. Tank pictured above is for early (1988) type cars. *See page 20 for late style tanks.* **G421TE**
- ▲ N Radiator Cap- cap for Scorpio and XR4's with thread-on coolant tank **G421C**
- ▲ O Oil Cooler- replacement water to oil heat exchanger. If water is showing up in your oil it would most likely be either a head gasket or one of these. **AD1000**
- ▲ P Heater Control Valve- heater control valve, same on XR4 & Scorpio **M421V**
- ▲ Q Heater Core- Quality Ford O.E. heater cores. **G471**
- ▲ R Mechanical Fan Clutch- Quality Ford O.E. **G422**
- ▲ R Electric Fan- An alternative to the Scorpio mechanical clutch fan. This highly efficient (1150 cfm) 16" electric "puller" fan moves more air and frees up a few HP to boot. Wire directly or use our (optional) adjustable 165-215 degree thermostat/relay wiring kit. (16" electric fan) **A16F-PL**  
(thermo/relay wiring kit) **AFTR1**
- ▲ S Heater A/C Blower Motor- New Ford heater blower motor for Scorpio with 8 wire harness/plug. **G470H**





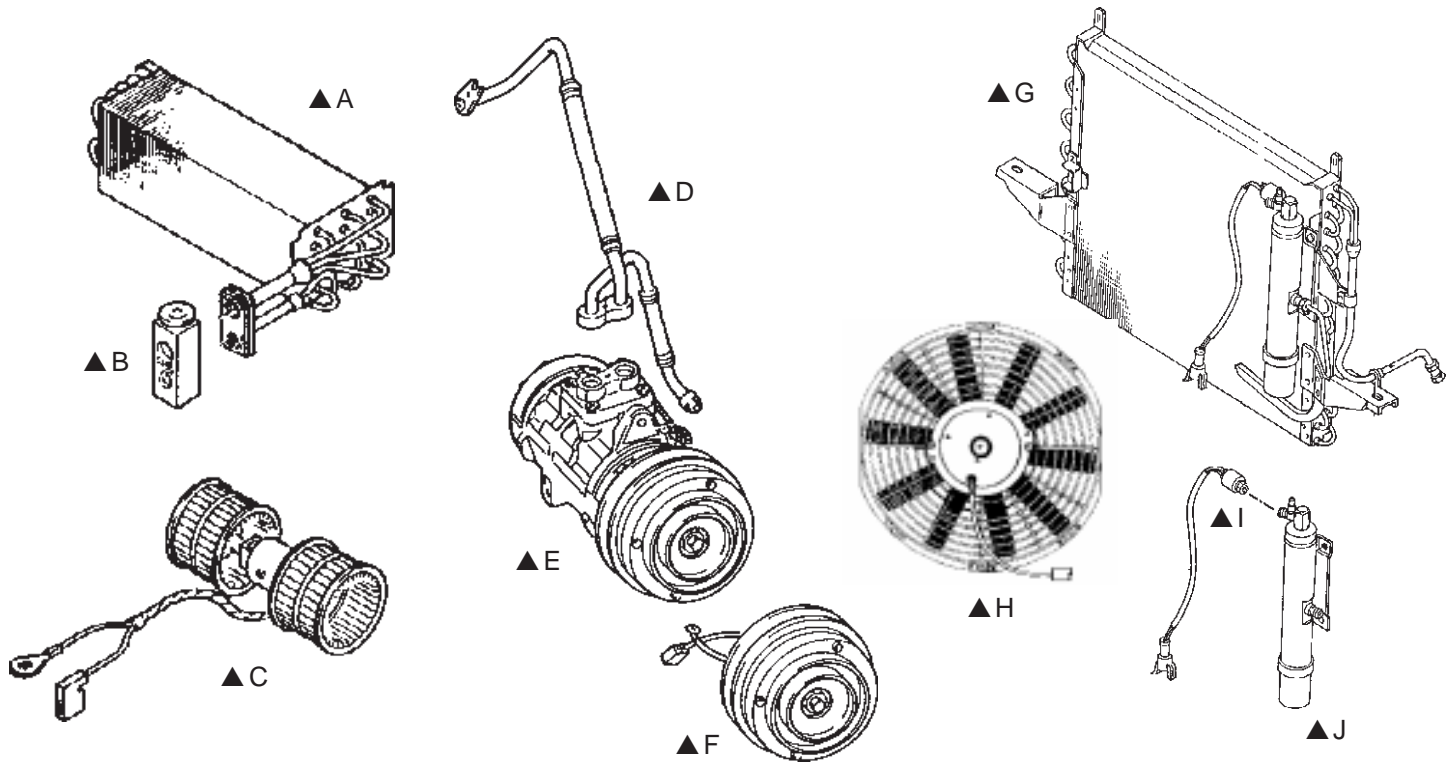
**Diagram A - heater and oil cooling water system**  
Scorpio 1988-89 (all)

- ▲ A Hose\*- heater valve (outlet) to heater core **G421HA**
  - ▲ B Hose- heater valve to engine/inlet mfl'd. **G421HB**
  - ▲ C Hose\*- heater valve (inlet) to heater core **G421HC**
  - ▲ D Hose\*- heater valve to oil cooler pipe **G421HD**
  - ▲ E Heater Control Valve\*- heater control valve, same on XR4 & Scorpio **M421V**
  - ▲ F Hose- connects coolant pipe from heater control valve to oil cooler. **G421HL**
  - ▲ G Oil Cooler\*- replacement water to oil heat exchanger. If water is showing up in your oil it would most likely be either a head gasket or one of these. **AWC1**
  - ▲ H Hose\*- oil cooler to coolant pipe. **G421HM**
  - ▲ I Hose\*- connects coolant pipe from oil cooler to water pump. **G421HK**
  - ▲ J Hose- bypass from water pump to inlet mfl'd. **G421HP**
- \*these items are also shown on page 19 diagram*



**Diagram B- Components unique to late 89 Scorpio**  
Scorpio 89 (late)

- ▲ K Hose\*- top radiator hose **G421TH**  
*\*hose with vent is no longer available*
- ▲ L Hose- coolant tank to thermostat housing **G421HF-9**
- ▲ M Tank Level Sender- sender/float assembly. Fits all Scorpio & XR4 over flow tanks. **M421LS**
- ▲ N Sender Install Kit- the 3 components (threaded collar, spacer ring, rubber grommet) required to stop a leaking sensor bung. Also a good idea when servicing the tank level sensor (see above part). **M421SK**
- ▲ O Cap/Plug-small rubber cap for plugging off the unused waterpump port. **G421P**
- ▲ P Hose- lower radiator hose (89 late) has additional tee off hose running to overflow tank @ lower bung **G421BH-9**
- ▲ Q Coolant Tank- oval type tank (use G421TL below)
- ▲ R Coolant Tank- late style (1990-92) coolant tank. Rectangular (larger volume) tank is a direct fit upgrade to the oval version listed above. **G421TL**
- ▲ S Radiator Cap- cap for Scorpio and XR4's with thread-on coolant tank **G421C**



Automotive air conditioning components seem to be difficult to source and expensive to boot. The XR4 and Scorpio are no exception to the rule. Reason being, a functioning A/C system is considered a "must have" and some will pay almost any price for cold air on a hot day. BAT understands that comfort is paramount, but on the other hand it should not require a second mortgage to repair your A/C system. You will find we have a selection of high quality, economically priced A/C parts too help keep you cool without breaking the bank. *Most A/C Components for XR4 & Scorpio are interchangeable except where noted.*

▲ **A Evaporator**-The evaporator (alloy fin/tube design) works as a heat exchanger. Air flowing through the core is cooled, cleaned, and dried. It is also one of the major cost portions of the A/C system, with the Ford original costing around \$550.00. Check out our aftermarket alternative for less than half the cost !  
**M470E**

▲ **B Expansion Valve**- Meters the volume of refrigerant to the evaporator. Expansion valve assembly should be replaced with evaporator or if found faulty.  
**M470EV**

▲ **C Blower Motor**- HVAC system blower motor includes motor and fan wheel. (Scorpio) G470A (XR4) M470A

▲ **D Refrigerant Hoses**\*-The complete refrigerant hose manifold assembly. These are specially re-manufactured units that have the hose running to the fire wall extended so it can be routed further away from the turbo's excessive heat. This is a very common failure item. (XR4ti) extended hose M470H  
(Scorpio) standard length hose G470H

\*additional \$100.00 core charge on this item- refundable on return

▲ **E A/C Compressor**-The compressor is one of the major cost portions of the A/C system, with the Ford original costing upwards of \$850.00. Check out our brand new Nippondenso A/C compressor units that are complete including the clutch assembly. **M470C**

▲ **F Clutch Assembly**\*- Replacement magnetic clutch assembly. Available separately from compressor . If a clutch is all you need we have it.  
**M470CL**

\*additional \$25.00 core charge on this item- refundable on return

▲ **G Condenser**- The A/C condenser (alloy tube/fin core) is located ahead of the water radiator. Designed to cool the compressed refrigerants air passes over the cooling fins extracting heat to change hot gasses back to liquid refrigerant as it cools. Again, one of the major cost portions of the A/C system, with the Ford original costing upwards of \$600.00. Check out our aftermarket alternative for considerable cost savings! for XR4 **M470D**  
for Scorpio **G470D**

▲ **H Electric Fan**- An alternative to the expensive original condenser fan (\$450.00). This highly efficient (1200 cfm) 16" electric "pusher" fan moves more air for le\$\$\$. **A16F-PU**

▲ **I Pressure Switch**- The triple pressure switch assembly engages the condenser fan and switches off the compressor clutch with high/low pressure. Also a common failure item. **M470S**

▲ **J Receiver/Dryer**- Works as a storage/expansion tank for refrigerant as well as a system dehumidifier. It is common to replace the dryer when changing over to newer types refrigerants or whenever the A/C system has been open to atmosphere as the dryer is easily contaminated. **M470R**



▲ A **Standard Wastegate Actuator** Since the stock XR wastegate is no longer available new, we supply a high quality re manufactured unit. Internal components (diaphragm) are replaced and exterior is zinc plated.) **M521WR**

▲ B **Turbochargers** We offer both re manufactured stock specification and modified high performance turbos for the XR. High quality re manufactured turbos include; new center cartridge compressor/turbine wheel assembly with reconditioned outer compressor/turbine housings, new bearings, seals and O-rings and fasteners. Our high performance turbo adds a few extra tweaks. A GNX compressor wheel machined into the stock comp housing for an additional 30% airflow and a 360 degree thrust bearing is fitted for added durability. Turbos are fully dressed and include wastegate actuator, base & drain gaskets and sold on a exchange "core" basis- outright purchase will add an additional \$100.00 to the cost.

**Standard Reman. Turbocharger**  
**High Performance Turbocharger**

**M522TR**  
**M522TM**

▲ C **Intercooler Kit** If you are looking for a large high flow intercooler kit this is the one to have. Intercooler core mounts ahead of the steering rack in front of the engine facing the ground. Air is ducted up and through the core. Plumbing is kept short and allows for a larger core than what can usually be fitted in the bumper/grille area. Kit is complete with intercooler core (8" x 20" x 3.5"), mounting brackets, inlet plumbing pipes & connectors, clamps, turbo output elbow, bypass valve and additional hardware and instructions. **M522IC**

▲ D **Adjustable Boost Valve Kit** Replace the troublesome stock boost control solenoid with this easy to adjust under hood boost valve. This kit uses a check valve to accurately control the boost level which allows for faster turbo spool-up (reduced lag) over typical adjustable "bleed-off" valves. This is a low cost modification and should be a "must have" for all XR's. **M521BV**

▲ E **Dual Port Wastegate Actuator** These are new actuators which feature an adjustable length rod (set boost & pre load) and dual vacuum ports. The dual port feature permits use of a remote mounted boost valve (see below), but can also be used as a replacement for stock actuator. **M521WA2**

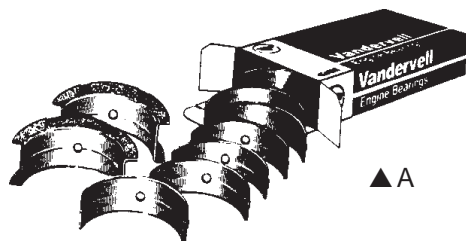
▲ F **Cockpit Mounted Boost Valve** Remote cockpit mounted adjustable boost valve for use with dual port wastegate actuators (see above). Vacuum signal is regulated by the in car mounted valve and recirculated to the dual port actuator for precise adjustment. **M521TB**

▲ G **Turbo Oil Feed Pipe** is prone to cracking/leaking and should always be replaced when a new turbo is fitted to assure proper oil flow. Just look inside an old one and you will see what we mean. **M522P**

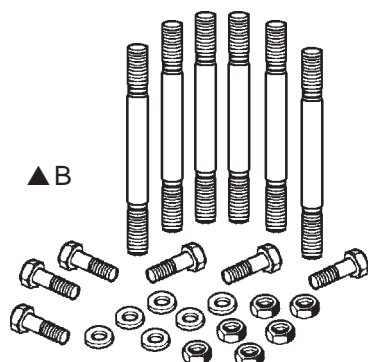
▲ H **Turbo Inlet Hose** we have a version of this (discontinued by Ford) hose that links the turbo outlet pipe to the throttle body. Ours is high specification 4-ply Silicone (blue) rated to over 600 degrees, 190 psi burst pressure- better & cheaper than the original! **M22H**

▲ I **Stainless Base Gasket** replacement for between the turbo base and exhaust manifold. **L521GT**

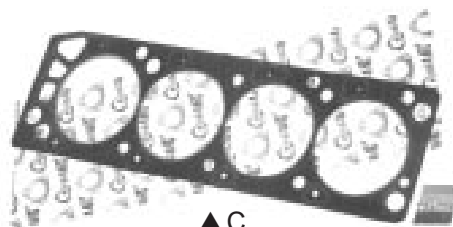




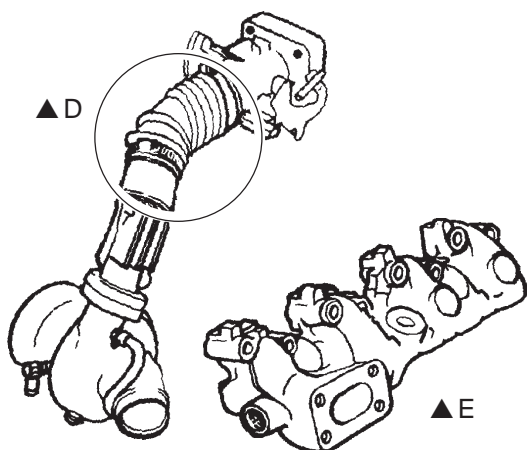
▲ A



▲ B

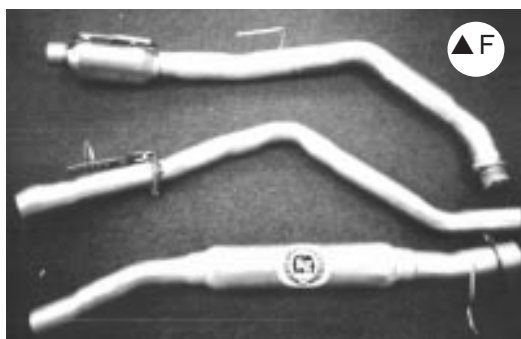


▲ C



▲ D

▲ E



▲ F

▲ A **Performance Engine Bearings 2.3L** At engine rebuild time one item not to skip on are engine bearings. We supply only the finest ACL/Vandervell heavy duty lead-indium type bearings. All bearings are not alike, regardless of who's name is on the box. Lead-indium bearings, not lesser reticular tin-aluminum, are the only type you will find in quality performance engines.

Main Bearing Set- ACL/Vandervell (standard)	L16A
Main Bearing Set- ACL/Vandervell (+.010" over)	L16B10
Main Bearing Set- ACL/Vandervell (+.020" over)	L16B20
Main Bearing Set- ACL/Vandervell (+.030" over)	L16B30
Rod Bearing Set- ACL/Vandervell (standard)	L16H
Rod Bearing Set- ACL/Vandervell (+.010")	L16110
Rod Bearing Set- ACL/Vandervell (+.020")	L16120
Rod Bearing Set- ACL/Vandervell (+.030")	L16130
Cam Bearing Set- ACL/Vandervell	L16M
Cam Bearing Set- ACL/Vandervell (360 degree O.D. groove)	L16MA
Auxiliary Shaft Bearing	L5DC

▲ B **Performance Engine Fasteners** As with engine bearings, skimping on fasteners is false economy. As a minimum install a set of H.D. rod bolts and nuts for an added degree of reliability.

Con Rod Bolt Set (H.D. SPS type) for standard 2.3 rod	L4FS
Con Rod Bolt Set (H.D. SPS type) for 5.7 Chevy I-6 rods	L4FSC
Head Stud Set (H.D. SPS type)	L2DS
Main Cap Stud Set (H.D. SPS type)	L2KS

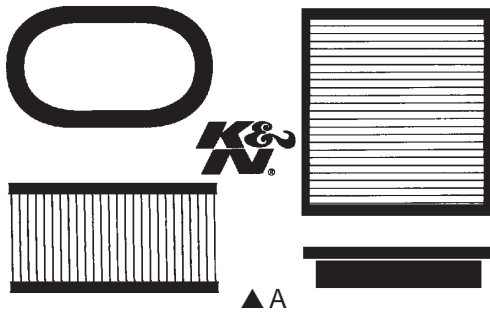
▲ C **Engine Gaskets (2.3L Turbo)** We have a wide range of performance and speciality gaskets available for the 2.3L turbo engine from full sets to individual pieces.

Full Gasket Set (complete engine) Felpro	L15AA
Top End Gasket Set (cylinder head, valve train, inlet/exhaust) Felpro	L15BA
Bottom End Gasket Set (block, crank & sump) Felpro	L15CA
Pan Set- sump rails & seals (cork)	L15CP
Head Gasket H.D. (Ford Motorsport turbo style)	L15D
Head Gasket H.D.- Felpro	L15DA
Head Gasket Competition- Felpro #1035 (steel wire ring type)	L15DF
Head Gasket Competition (extreme duty racing gasket)	L15DR
Head Space Shim .020"	L15DS
Valve Cover Gasket (standard cork)	L15E
Valve Cover Gasket H.D. (hi-temp rubber/ includes- upper inlet gasket)	L15EA
Intake Manifold Gasket Set (upper & lower inlet manifold)	L15F
Water Outlet Gasket (thermostat housing)	L15N
Water Pump Gasket (pump to block)	L15P
Crankshaft Rear Seal	L15Q
Camshaft Seal	L15R
Auxiliary Shaft Seal	L15S
Crankshaft Front Seal	L15T

▲ D **2.3 Turbo Inlet Hose** We have a version of this (recently discontinued by Ford) hose that links the turbo outlet pipe to the throttle body on XR4Ti, T-Bird & SVO. Ours is higher specification 4-ply Silicone (blue) rated to over 600 degrees, 190 psi burst pressure- better & cheaper than the original! M22H

▲ E,F **Exhaust Components** We offer the Modern Performance line of exhaust related items for the XR4Ti including full systems (hi-flow down pipe, converter and muffler) as well as cat back systems (excludes converter). Exhaust piping and mufflers are constructed in heavy 14 gauge aluminized tubing, converters and mufflers are straight through design for minimum restriction. These systems are unparalleled for performance and sound great too. The 3" down pipe can be added to standard or Borla systems for increased performance. We also stock the standard Ford cast iron exhaust manifolds (which are prone to cracking) or alternate stainless tubular exhaust headers.

Exhaust System 3" (full system) S.S. muffler & converter	M522
Performance Exhaust System 2.5" (down pipe w/cat back)	M522B
Exhaust Down Pipe 3"	M522DP
Exhaust Manifold (standard cast Fomoco)	M521
Exhaust Header 2.3 Turbo (tubular stainless steel)	L521T
Gasket (stainless)- Turbo to Exhaust Manifold	L521GT
Exhaust Hanger (rubber donut)	C522H



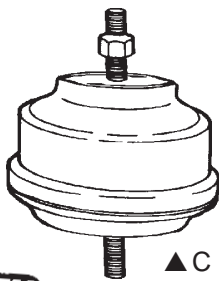
▲ A



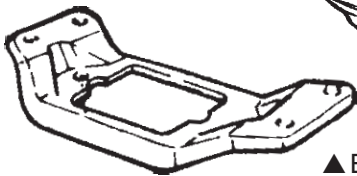
▲ B



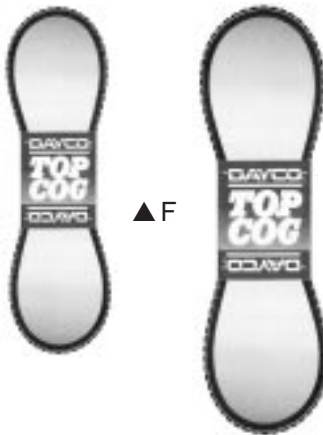
▲ D



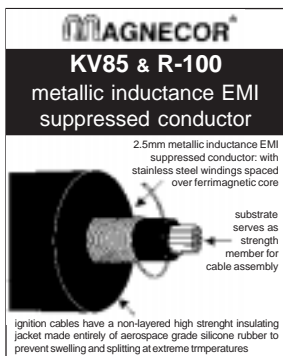
▲ C



▲ E



▲ F



▲ G

▲ A **Performance Air Filters** A quick and easy performance modification is to replace the standard air filter with a direct fit KN high performance air filter.  
Merkur XR4Ti (2.3L Turbo) **M22P**  
Merkur Scorpio (2.9L V-6) **G22P**

▲ B **High Temp Fyre Sleeve** The under hood temperatures on the XR4Ti can be quite severe. Slipping a length of fyre sleeve over critical wiring or rubber water & A/C hoses will add an extra degree of protection. Fyre Sleeve provides radiant heat protection up to 800 degrees. Sleeve is sold per foot and is sized by internal diameter. Hoses or wiring can be disconnected at one or both ends then slipped through fyre sleeve or sleeve can be un-stitched at the seam and wire tied in place.

Mylar Fyre Foil Sleeve -10 (7/8" I.D.) per foot **320510**  
Mylar Fyre Foil Sleeve -12 (1" I.D.) per foot **320512**  
Mylar Fyre Foil Sleeve -16 (1 1/4" I.D.) per foot **320516**  
Mylar Fyre Foil Sleeve -20 (1 1/2" I.D.) per foot **320520**

▲ C **Engine Mount Insulators** BAT has an alternative to the recently discontinued original equipment Ford motor mounts on the XR4Ti. Simply remove the old motor mount assemblies, discard the worn-out rubber portion, and reuse the top and bottom metal plates with our replacement insulators. *Note: slight modification requires 10mm holes in plates to be increased to 12mm. Scorpio mounts are Ford mfg. direct replacements.*

Engine Mount Insulator (left & right same) XR4Ti **M433**  
Engine Mount Insulator (left & right same) Scorpio- new Ford **G433**

▲ D **Transmission Mount Insulator** Rear transmission mount/insulator-direct fit for automatic & manual Scorpio. A heavy duty version also available. *Note: this "square" type mount can be fitted to the XR4 with special crossmember, (see below) as the standard "round" trans. mount used on our XR4Ti's is no longer available.*

Transmission Mount Insulator\*- (automatic & manual) **G433T**  
Transmission Mount Insulator H.D.\*- (automatic & manual) **M433TA**  
*\*can be fitted to XR4 with additional x-member (see below)*

▲ E **Transmission Crossmember** Wide and narrow type transmission tunnel crossmembers allow the above "square" mount/insulators to be installed in the XR4Ti. Fitting the XR with this crossmember/mount combination is a considerable upgrade (strength, noise, vibration) over the USA supplied "round" mount.

Crossmember\* XR4 (wide) 1987-89- manual & auto **M433XL**  
Crossmember\* XR4 (narrow) 1985-86- manual & auto **M433X**  
*\*for use in combination with above G433, M433 "square" type mount*

▲ F **Engine Belts H.D.** Our search for the ultimate heavy duty engine accessory v-belts lead us to the top cog "Gold Series" by Dayco. Top cog v-belts are built to last up to 20% longer than conventional belts. A unique clogged design increases flexibility and airflow around the belt for reduced friction and heat. Laminated design with high temperature rated polyester cords provide maximum tension holding (reduced slip) over the life of the belt.

Belt- XR4Ti (1985-89) W. Pump, Alt, P. Steering (2 required) **M6G**  
Belt- XR4Ti (1986-89) A/C Compressor **M6H**  
Belt- XR4Ti (1985) A/C Compressor **M6HA**  
Belt- Scorpio (1988-89) Fan & Power Steering (2 required) **G6G**  
Belt- Scorpio (1988-89) Alternator **G6GA**  
Belt- Scorpio (1988-89) A/C Compressor **G6H**

▲ G **Performance Ignition Wire Sets** We have tried a number of different ignition wire options on the 2.3 Turbo and 2.9L V6 engines and have found the Magnecor brand to offer superior quality, performance, and durability. Cables are red in color with 8mm, 8.5mm and 10mm cable diameters.

**Merkur XR4Ti (2.3L Turbo)**  
Ignition Wire Set- (8mm w/silicone jacket and boots) **L9HT**  
Ignition Wire Set- (8.5mm KV85 wire w/silicone jacket and boots) **M9HT**  
Ignition Wire Set- (10mm R-100 wire w/silicone jacket and boots) **M9HTR**

**Merkur Scorpio (2.9L V6)**  
Ignition Wire Set- (8mm w/silicone jacket and boots) **G9HT**  
Ignition Wire Set- (8.5mm KV85 wire w/silicone jacket and boots) **G9HT9**

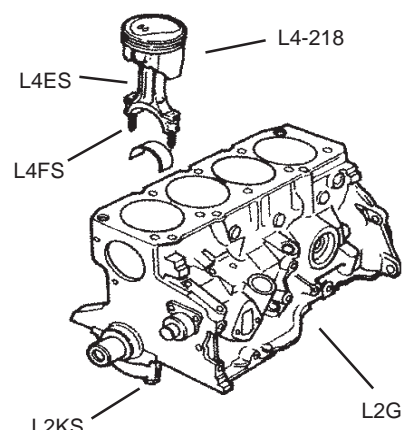
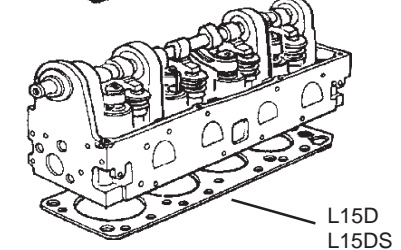
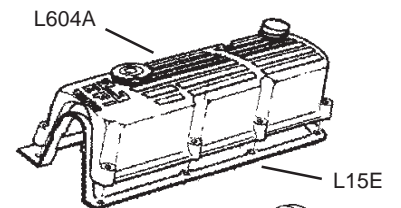
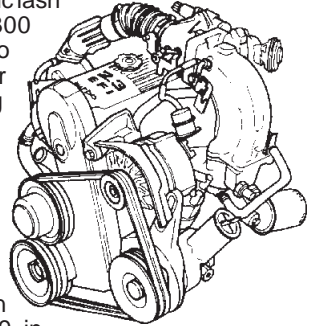
## 2300 Turbo Engine Components

Cylinder Block Bare (H.D. "Turbo" Block)	
Main Cap Stud Set (H.D. ARP)	
Full Gasket Set (Felpro) 1985 engine	
Full Gasket Set (Felpro) 1986-89 engine	
Top End Gasket Set (Felpro) <i>specify year when ordering</i>	
Top End Gasket Set (Felpro) <i>with hi-temp valve cover set</i>	
Bottom End Gasket Set (Felpro) 1985 engine (cork pan)	
Bottom End Gasket Set (Felpro) 1986-89 engine (rubber pan)	
Oil Pan Gasket (1 piece rubber) 1986-89	
Head Gasket (Felpro)	
Competition Head Gasket (Felpro #1035) <i>steel wire ring type</i>	
Competition Head Gasket (extreme duty racing gasket)	
Valve Cover Gasket- Cork	
Valve Cover Gasket H.D. (1 piece rubber) <i>includes upper manifold</i>	
Intake Manifold Gasket Set	
Exhaust Manifold to Cylinder Head	
Turbo Charger to Exhaust Manifold (stainless)	
Water Outlet Gasket	
Water Pump Gasket	
Camshaft Seal	
Auxiliary Shaft Seal	
Crankshaft Front Seal	
Oil Pump (standard) <i>Melling</i>	
Oil Pump- (high pressure/ high volume)	
Water Pump (new)	
Water Pump (recon)	
Fuel Pump- Electric XR4Ti (in line)	
Fuel Pump- Electric XR4Ti (in tank)	
Performance Piston- Power Forged #250F (std, +.020", +.030", +.040", +.060 sizes)	
<i>exact replacement for standard 2.3 turbo piston, light weight "power forged" design, 1.589" compression height for 8.0:1 compression, 2mm 2mm 4.75mm ring land, supplied with wrist pins and locks.</i>	
Performance Piston- Forged (custom)	
<i>BAT can supply custom forged pistons to your specifications. Information regarding bore size, ring land sizes &amp; locations, compression height, and wrist pin bore size is required for ordering.</i>	
Ring Set- Moly type 1/16", 1/16", 3/16" (std, .020", .030", .040", .060")	
<i>*for above "performance pistons" - specify size</i>	
Ring Set*- Gapless Moly type 1/16", 1/16", 3/16" (std, .020", .030", .040", .060")	
<i>*for above "performance pistons" - specify size</i>	
Ring Set*- Gapless Moly type 1/16", 1/16", 3/16" (std, .025", .035", .045", .065")	
<i>*for above "performance pistons" - file fit top ring</i>	
Ring Set*- Gapless Moly type 2mm, 2mm, 4.75mm (std, .020", .030", .040", .060")	
<i>*for standard OE type pistons - specify size</i>	
Main Bearing Set- ACL/Vandervell (std, .010", .020", .030")	
Connecting Rod Set- (4) Forged H-beam 5.20" length	
Connecting Rod Set- (4) Forged I-beam 5.20" length	
Connecting Rod Set- (4) Forged H-beam 5.70" length	
Rod Bearing Set- ACL/Vandervell (std, .010", .020", .030")	
Con Rod Bolt Set- ARP H.D. (for standard 2.3L rod)	
Head Stud Set- ARP H.D.	
Cam Bearing Set- ACL/Vandervell	
Cam Bearing Set- ACL/Vandervell (360 degree O.D. groove)	
Aux. Shaft Bearing	
Cam Follower- (standard O.E. type) <i>each</i>	
Cam Follower- (roller type) <i>each</i>	

### DISCONTINUED

L2KS	94.55
L15AA	95.00
L15AB	124.50
L15BA	55.00
L15BB	79.50
L15CA	40.10
L15CB	73.85
L15CP	34.25
L15DA	19.50
L15DF	59.50
L15DR	29.50
L15E	6.79
L15EA	24.00
L15FA	11.40
L15GA	7.50
L521GT	8.75
L15N	CALL
L15P	CALL
L15R	8.25
L15S	9.25
L15T	16.08
L2P	42.90
L2HP	73.20
L6A	73.10
L6AA	39.00
M10A	165.00
M10AT	125.00
L4-250F	62.20
L4R	85.90
L4TF	98.00
L4T1	127.50
L4TFA	98.00
L16A	32.65
L4ES	549.00
L4ESB	398.00
L4ESA	549.00
L16H	16.35
L4FS	47.70
L2DS	105.00
L16M	18.50
L16MA	18.50
L5DC	20.25
L5B	7.50
L5BR	16.00

Utilizing a design similar to the earlier German 2000 OHC "Pinto" engine the 2300 "Lima" engine eventually replaced the 2000 OHC in most North American Ford 4 cylinder vehicles from 1974 on. Built for lower maintenance with the addition of hydraulic lash adjusters the 2300 was designed to operate in a lower RPM range using its larger displacement and increased torque to its best advantage. Performance turbo-charged versions of the 2300 began to appear in 1979 in the Mustang/Capri and continued through the 80's in a more refined and powerfull EFI turbo version. A reduced bore 2000 displacement "Ranger" truck engine (from 1983-87) was also produced. Some late production "Lima" engines are equipped with hydraulic roller cam and valve train, and other versions use dual spark plug cylinder heads. The 2300 is a fairly rugged engine in its stock form, however some components will require up-rating with performance components if high RPM duty is required. The "Lima" series turbo and normally aspirated engines respond quite well with a bit of performance tuning and though lacking in refinement do give quite a bit of bang for the buck.





Camshafts- see chart below

Grind# Pricing \$	Description	Power Band	Cam Lift inlet/exhst.	Valve Lift inlet/exhst.	Duration inlet/exh	Timing Figures	Timing Inlet @ Full Lift	Valve Clearance inlet/exhst.	Comments
<b>2300 Turbo Camshafts (Hydraulic)</b>									
H260 \$169.00	Hydraulic	2500-6000	.252"/.252"	.416"/.416"	272/272 220/220	0/40 40/0	110	0 / 0	smooth idle, strong low and mid performance, turbo suitable, auto & manual trans.
H283 \$169.00	Hydraulic	3500-6500	.274"/.274"	.453"/.453"	276/276 224/224	2/42 42/2	110	0 / 0	good idle, strong low and mid performance, turbo suitable, manual transmission only
<b>2300 Turbo Camshafts (Hydraulic Roller*)</b> <span style="float: right;">*for cars originally equipped or kit available below</span>									
HR220 \$385.00	Hydro-roller	2700-6500	.305"/.305"	.505"/.505"	272/222 221/231	-----	111	0 / 0	H.P. roller cam for cars originally roller cam equipped, or see kit below- manual transmission only
HR225 \$399.00	Hydro-roller	3000-6800	.314"/.314"	.520"/.520"	280/280 226/226	-----	111	0 / 0	H.P. roller cam for cars originally roller cam equipped, or see kit below- manual transmission only
HR310 \$375.00	Hydro-roller	3000-7000	.317"/.317"	.535"/.535"	284/284 224/224	0/44 44/0	112	0 / 0	H.P. roller cam for cars originally equipped. turbos use 112 centerline, manual transmission only
<b>2300 Turbo Camshaft Kits (Hydraulic Roller)</b>									
HR220K \$680.00	Hydro-roller cam kit	2700-6500	.305"/.305"	.505"/.505"	272/222 221/231	-----	111	0 / 0	Kit Includes: camshaft, roller followers, valve springs, valve keepers & retainers, lash caps & cam oil seal
HR225K \$715.00	Hydro-roller cam kit	3000-6800	.314"/.314"	.520"/.520"	280/280 226/226	-----	111	0 / 0	Kit Includes: camshaft, roller followers, valve springs, valve keepers & retainers, lash caps & cam oil seal

Hydraulic Lash Adjuster Set- (standard O.E. type)	L5BA	43.00
Hydraulic Lash Adjuster Set- (high rev. anti pump-up)	L5BH	49.95
Intake Valve- (standard O.E. type)	L3H	8.25
Intake Valve- 1.740" (oversized stainless steel hi-flow) <i>each</i>	L3HA	13.25
Intake Valve- 1.890" (oversized stainless steel hi-flow) <i>each</i>	L3HB	15.00
Exhaust Valve- (standard O.E. type) <i>each</i>	L31	25.75
Exhaust Valve- 1.510" (oversized stainless steel hi-flow) <i>each</i>	L31A	13.25
Exhaust Valve- 1.590" (oversized stainless steel hi-flow) <i>each</i>	L31B	15.00
Valve Spring Retainers (various)- <i>call with specific application</i>	-----	CALL
Valve Spring Set- (sport spring set for hydro cams to .480" lift)	L3F	73.75
Valve Springs Racing- <i>call with specific application</i>	-----	CALL
Electric Fan Switch -XR	M450FS	31.95
Knock Sensor-XR	M450KS	63.50
Engine Coolant Temp Sensor (ECT)-XR	M450EC	33.25
Idle Speed (Air Bypass Valve) XR/Scorpio	M450IS	87.50
Throttle Position Sensor (TPS)-XR	M450TP	47.60
Oxygen Sensor (OS)-XR	M450OS	60.50
Oil Pressure Switch-XR	M450P	6.40
Water Temp Gauge Sender- XR (purple band)	M450F	DISCONTINUED
Adjustable Cam Sprocket (key way type)	L5F	34.95
Adjustable Cam Sprocket (vernier type)	L5FA	95.75
Cam Belt- (H.D. Ford Motorsport)	L5G	29.95
Cam Belt- (H.D. Pirelli type)	L5GA	15.00
Fuel Injector 2.3L Turbo (35pph -disk type) <i>each</i>	L7G	DISCONTINUED
Fuel Injector 2.3L Turbo- Remanufactured (35pph -brown top) <i>each</i>	M7G	55.00
Intake Hose- Turbo Outlet to Throttle Body (Hi-Temp 4-Ply Silicone "Blue") XR4Ti, T-Bird & SVO	M22H	47.00
Air Vane Meter* 50mm (T-Bird) <i>reconditioned</i>	L7V	164.50
Air Vane Meter* 65mm (SVO) <i>reconditioned</i>	L7VA	175.00
<i>*can also be used for performance upgrade on XR4Ti with "PE" programed chip (call for information)</i>		
Distributor- 2.3L Turbo (reman) w/o cap, rotor, module (35.00 core)	L9AB	119.00
Distributor Cap H.D. (hi-temp epoxy w/brass terminals)	L9B	16.98
Distributor Rotor H.D. (hi-temp epoxy) <i>85-86 screw down type</i>	L9F	7.50
Distributor Rotor H.D. (hi-temp epoxy) <i>87-89 push-on type</i>	L9FA	8.90
Ignition Module TFI (on distributor)	L9M	80.75
Ignition Wire Set- (8mm custom length w/silicone jacket and boots)	L9HT	39.00
Ignition Wire Set- (8.5mm custom length w/silicone jacket and boots)	M9HT	69.50
Ignition Wire Set- (10mm custom length w/silicone jacket and boots)	M9HTR	79.50
Performance Air Filter KN (2.3L Turbo) XR4Ti	M22P	39.90



## Engine Builders Kits

Time for that inevitable engine rebuild? BAT takes the guess work out of acquiring all the right components by offering these prepackaged performance engine service kits. Our top end (cylinder head) and bottom end (short block) rebuilding kits are supplied complete with premium high performance parts. With the help of a competent machine shop these rebuild kits will restore your engine to better than new condition. As usual we have gone to great lengths to supply only the absolute best components for the job and still managed to keep the prices reasonable.

### Performance Short Block Rebuild Kit (2.3L Turbo)

- (1) Full Gasket Set -Felpro L15AB
- (1) Main Bearing Set -ACL Vandervell (specify size; STD, +.010", +.020", +.030") L16A
- (1) Rod Bearing Set -ACL Vandervell (specify size; STD, +.010", +.020", +.030") L16H
- (4) Forged Pistons -Power Forged (specify size; STD, +.010", +.020", +.030", +.040", +.060") L4250F
- (1) Gapless Ring Set -Total Seal (specify size; STD, +.010", +.020", +.030", +.040", +.060") L4TF
- (1) Rod Bolt & Nut Set H.D. -A.R.P. L4FS
- (1) Oil Pump- Melling L2P

### **Short Block Rebuild Kit L501**

**\$749.00 as above listed**

#### Optional Items to Short Block Rebuild Kit

- A) Forged Connecting Rod Set - "I" beam type w/ H.D. fasteners (add \$350.00)
- B) Forged Connecting Rod Set - "H" beam type w/ H.D. fasteners (add \$525.00)
- C) Main Stud Set H.D. - A.R.P. (add \$75.00)
- D) Crankshaft (if required) - resized, polished, balanced, indexed (add 349.00)
- E) Crankshaft "Power Pulley" (add \$90.00)

### Performance Cylinder Head Rebuild Kit (2.3L Turbo)

- (1) Top End Gasket Set\* - Felpro L15BA \* see notes below
- (1) Cam Bearing Set -ACL Vandervell L16M
- (1) Head Bolt Set L2D
- (4) Exhaust Valves -Stainless Hi-flow 1.51" L31A
- (4) Inlet Valves -Stainless Hi-flow 1.74" L3HA
- (1) Valve Spring Set H.D. L3F
- (8) Cam Followers L5B
- (1) Hydraulic Adjuster Set (lifters) L5B
- (1) Cam Sprocket (index type) L5F
- (1) Cam Belt H.D. L5G
- (1) Camshaft (.416" / 272 turbo profile) L5H260

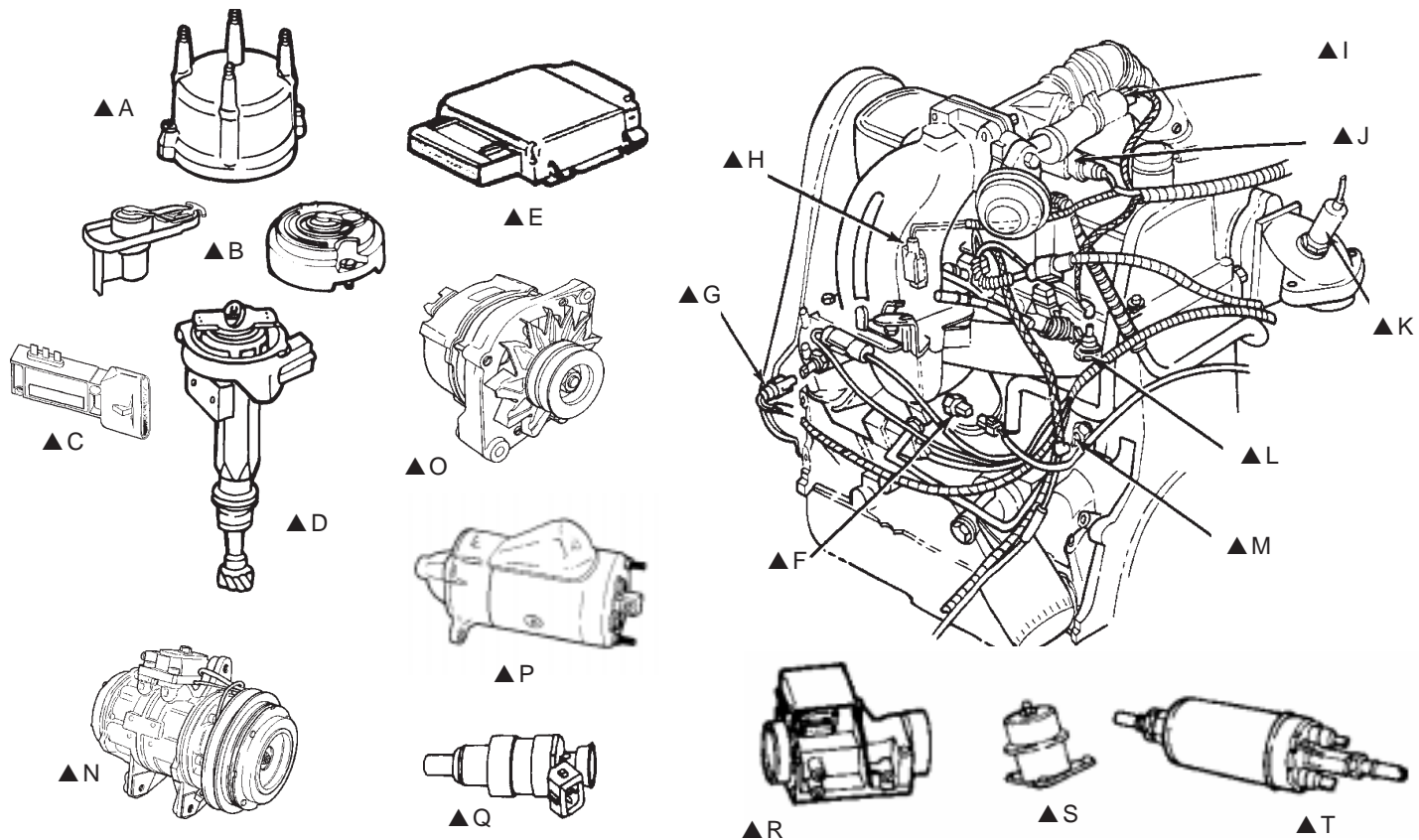
### **Cylinder Head Rebuild Kit L502**

**\$695.00 as listed above**

#### Optional Items to Cylinder Head

- (A) Head Stud Kit H.D. - A.R.P. (add 45.00)
- (B) Adjustable Cam Sprocket -alloy "vernier" type (add 50.00)

\*Notes: this item (L15BA) is not required when ordering L502 cylinder head kit with L501 short block kit (it is already included with L501). We will offer a 50.00 discount when ordering L502 and L501 together.



▲A **Distributor Cap 2.3L** Heavy duty epoxy/resin cap w/brass terminals. **L9B**

▲B **Distributor Rotor 2.3L** Heavy duty epoxy/resin rotor (screw down type 1985-86). **L9F**

▲B **Distributor Rotor 2.3L** Heavy duty epoxy/resin rotor (push-on type 1987-89). **L9FA**

▲C **TFI Module 2.3L** (Motorcraft) **L9M**

▲D **Distributor 2.3L** excludes cap, rotor, module (35.00 core) *re manufactured* **L9AB**

▲D **Distributor 2.9L** excludes cap, rotor, module (55.00 core) *remanufactured* **G9AB**

▲E **Engine Management** XR4Ti and Scorpio engine management computers. (75.00 core) *remanufactured* **M9C**

**XR4Ti (specify auto or manual trans)** **G9C**  
**Scorpio (specify auto or manual trans)**

### 2.3L Turbo Engine Sensors & Switches

▲F **Electric Fan Switch -XR** **M450FS**

▲G **Knock Sensor-XR** **M450KS**

▲H **Engine Coolant Temp Sensor (ECT)-XR** **M450EC**

▲I **Idle Speed (Air Bypass Valve) XR/Scorpio** **M450IS**

▲J **Throttle Position Sensor (TPS)-XR** **M450TP**

▲K **Oxygen Sensor (OS)-XR** **M450OS**

▲L **Oil Pressure Switch-XR** **M450P**

▲M **Water Temp Gauge Sender- XR (purple band)** **M450F**

### Sensors & Switches (other)

Air Charge Temp. Sensor (ACT) Scorpio **G450A**

Coolant Temp. Sensor (ECT)- Scorpio **M450EC**

MAP Sensor -Scorpio **G450M**

Oil Pressure Switch- Scorpio **G450P**

Oxygen Sensor- Scorpio **G450OS**

Vehicle Speed Sensor- Scorpio **G450S**

Throttle Position Sensor- Scorpio **G450TP**

▲N **A/C Compressor** XR4/Scorpio Nippondenso A/C compressor units, includes clutch. *remanufactured* **M470C**

▲O **Alternator** Bosch (90 amp) alternators available for XR & Scorpio. (10.00 core) *remanufactured*.

**Alternator-XR4Ti** **M24A**

**Alternator-Scorpio** **G24A**

▲P **Starter** XR4Ti and Scorpio starter units. (30.00 core) *re manufactured*.

**Starter-XR4Ti** **M23A**

**Starter-Scorpio** **G23A**

▲Q **Fuel Injectors** Replacement injectors for XR4Ti.

**35 lb. Standard Brown Top Injector (reman)** **M7G**

**35 lb. Optional Disk Type Injector (new)** **L7G**

▲R **Vane Air Meter** Larger 50mm (T-bird) and 65mm (SVO) VAM's can be fitted as a performance upgrade on the XR4Ti. ("PE" computer chip upgrade required)

**50mm VAM (reman)** **L7V**

**65mm VAM (reman)** **L7VA**

**Standard VAM XR4Ti (reman)** **L7VM**

▲S **Fuel Pressure Regulator** Standard replacement regulator for XR4Ti. **M7PR**

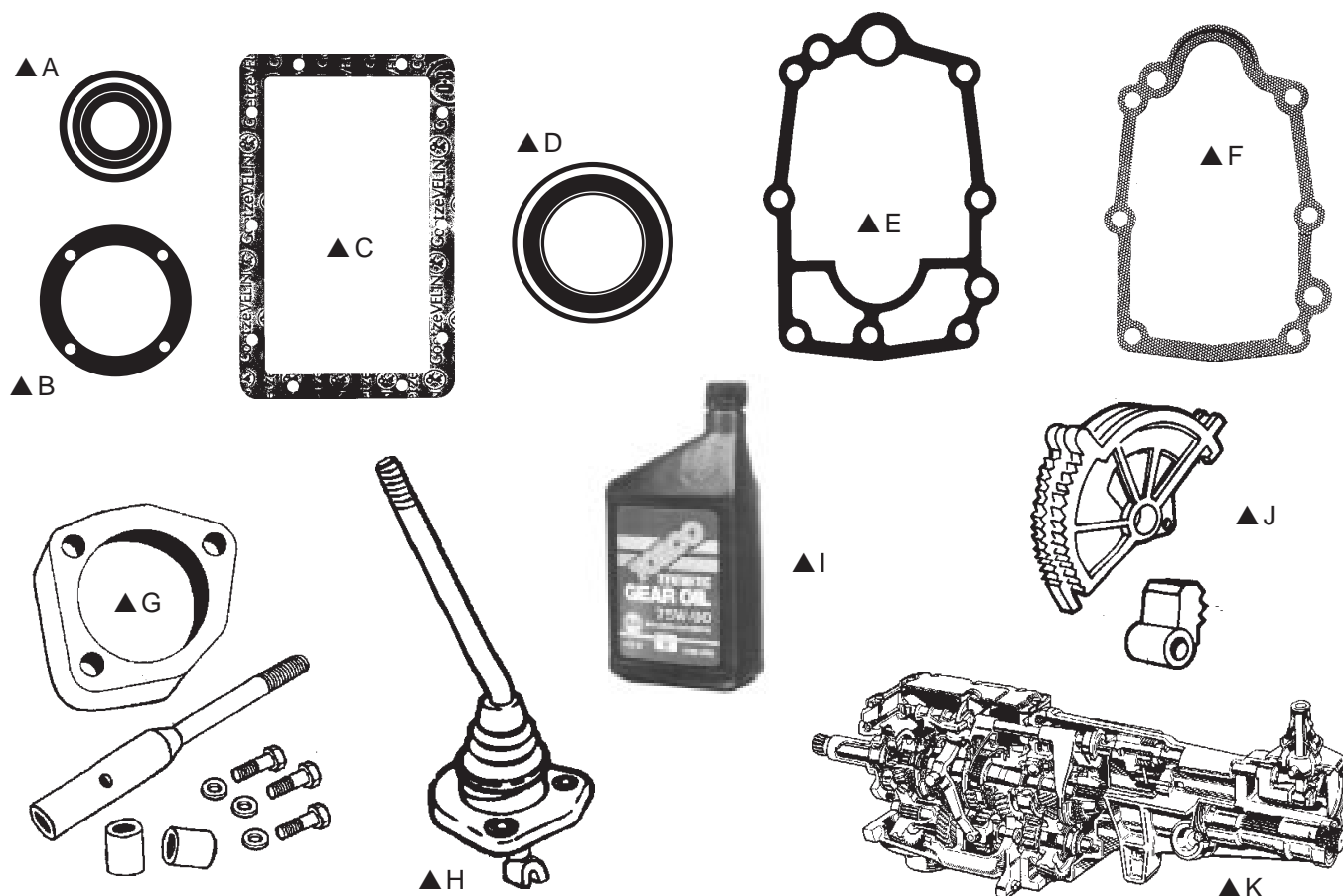
▲T **Electric Fuel Pumps** New XR4Ti (in line) high pressure and (in tank) low pressure fuel pumps

**Electric Fuel Pump (in line) high pressure** **M10A**

**Electric Fuel Pump (in tank) low pressure** **M10AT**

**Important note: all electrical items are pre-tested before shipping. Carefully check all wiring, fuses & relays before ordering. Electrical items are not returnable !**





▲ A **Oil Seal-** input Shaft (front) T9 Transmission **M703**

▲ B **Gasket-** input bearing retainer to main case (front) T9 Transmission **M702G**

▲ C **Gasket-** top Cover T9 Transmission **M716**

▲ D **Oil Seal-** extension housing (tail shaft) T9 Transmission **M719**

▲ E **Gasket-** adaptor plate (bearing carrier) to main case T9 Transmission **M709**

▲ F **Gasket-** adaptor plate (bearing carrier) to extension housing (tail shaft) T9 Transmission **M708**

▲ G **Short Shift Kit-** If anything can be added to enhance the "link" between driver and transmission while rowing through the gears on the XR4 or Scorpio 5-speed this is it. We have a dynamite quick shift kit that fits standard T9 Hummer transmissions. If you like the shifter "feel" on Hurst equipped Mustang GT, this kit offers similar results. Customers often remark that this shift kit is one of the best modifications that they have made to their cars, especially considering the price and ease of installation. Just think about how many gear changes you make in a day, let alone a week, or year. Shouldn't every shift be quick, light and precise?

**M715**

▲ H **Shifter-** A serious short throw competition gear lever featuring a robust large diameter shaft placed within a spherical bearing. The all metal construction will cause additional transmitted noise but this is a small penalty to pay against the strength, speed and quality of the gear change achieved.

**M717**

▲ I **Gear Oil-** Torco synthetic gear oil is designed to withstand tremendous heat and provide extreme anti-score protection under high torque "shock loading" conditions. That is why most Indy car and drag race teams rely on Torco protection. Torco SAE 75w90 gear oil is GL-6 rated and includes limited slip additives. Great for both transmission and differential applications. Torco synthetic gear oil greatly improves the shift "feel" of T9 transmission, shifting becomes light and precise, almost like a tune-up in a bottle. Notes: transmission will require 2 quarts (2.25 to 3.34 pint capacity depending on year) and rear axle 1 quart (1.6 pint capacity) Gear oil not for T5 transmissions (use ATF type fluid).

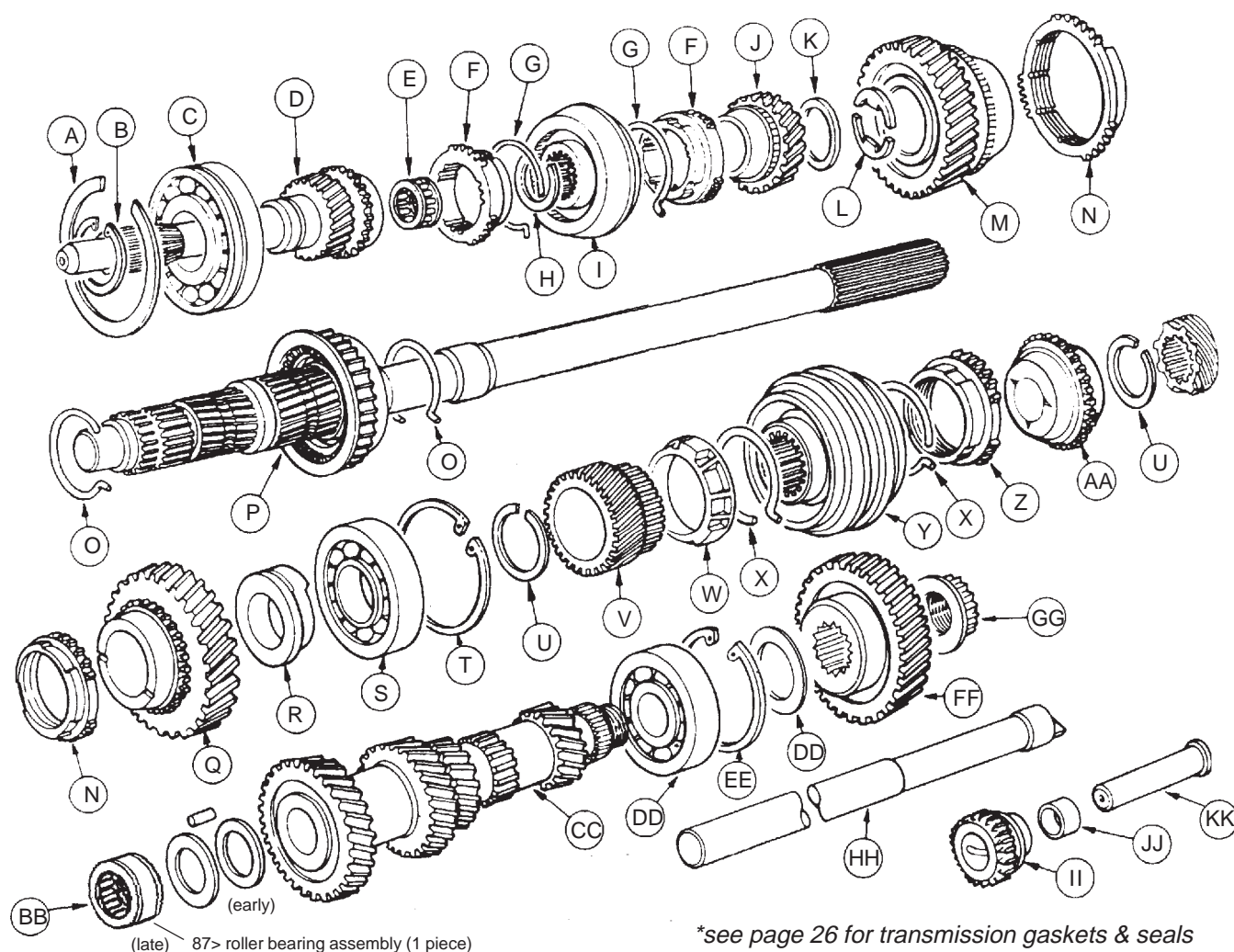
**C2S**

▲ J **Quadrant & Pawl Kit-** When the clutch pedal "ratchet adjuster" wears out it contributes to poor pedal feel and an annoying clicking noise. Renewing the quadrant and pawl with this handy kit will alleviate the problem.

**M368**

▲ K **Rebuilt T9 Transmissions-** Highest quality factory certified remanufactured T9 transmissions with European gear ratios (3.65:1, 1.97:1, 1.37:1, 1.00:1, 0.82:1).

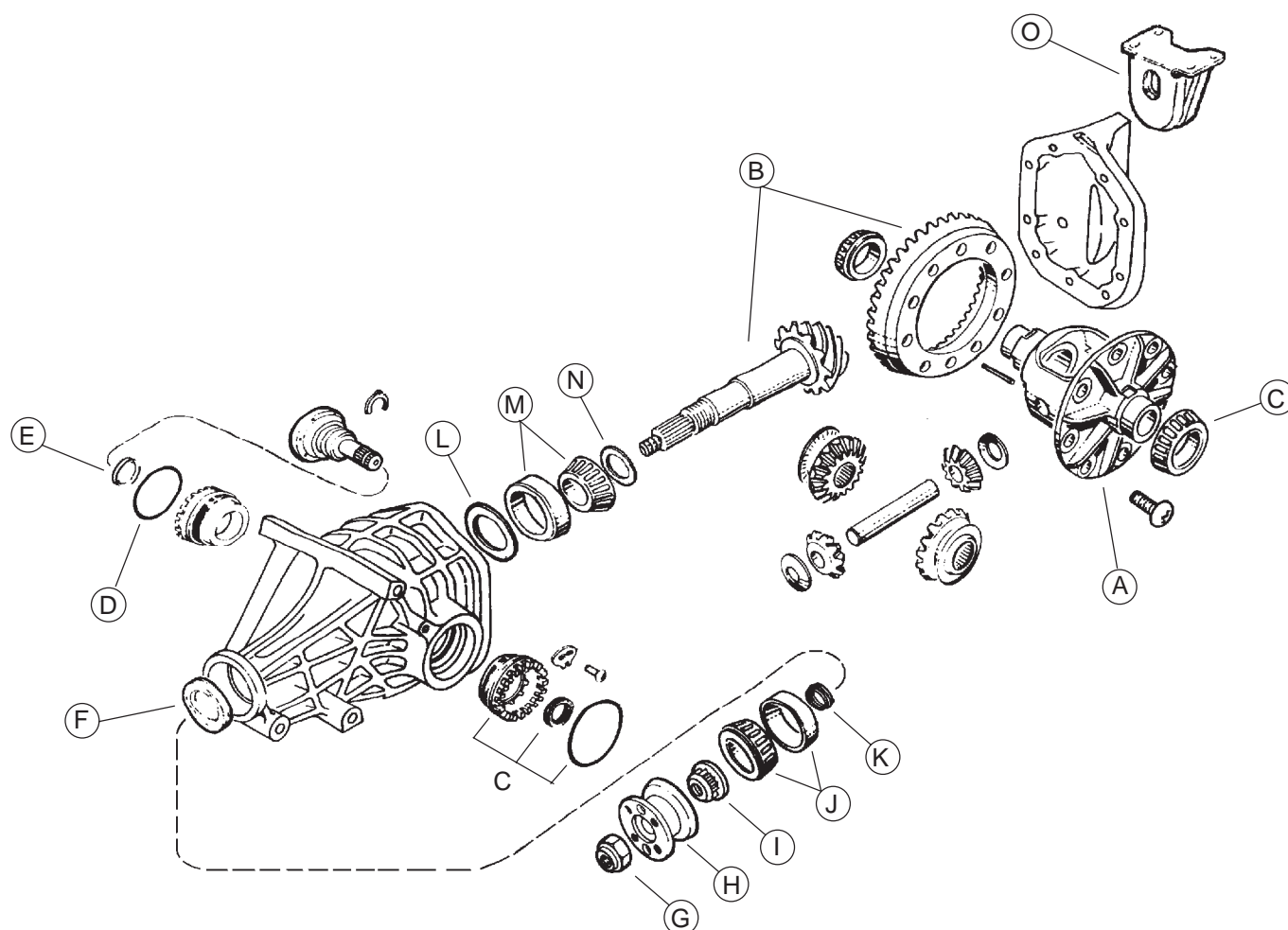
**M700**



\*see page 26 for transmission gaskets & seals

The Ford Type 9 (T9) or Hummer transmission is a 5-speed version/conversion (an overdrive portion is added in a casting extension behind the main case) of the venerable Type E 4-speed. The only problem with this transmission is the 2.3 turbo engine's torque output is near the top of T9's performance envelope. It would seem that Ford's choice of manual and automatic transmissions were both marginal at best for use in the XR4Ti. Even so the T9 can give better than average service when driven sensibly. However, they do not fair well when abused! A sure sign of problems is a "growling" input shaft bearing. The sooner this is attended to the better. When the input bearing fails it will take with it some, or all, of the gearing making for an expensive repair bill. We can supply individual T9 replacement parts from this list as requested.

▲ A	<b>Snap Ring</b> - front input shaft (large)	M701	\$2.00	▲ N	<b>Synchronizer Ring</b> - 1st/2nd gear	M711	\$33.25
▲ B	<b>Circlip</b> - front input shaft (small)	M701A	\$2.00	▲ O	<b>Blocker Spring</b> - synchronizer	Z61547	.55c
▲ C	<b>Bearing</b> - input shaft roller bearing	M702	\$29.50	▲ P	<b>Mainshaft w/Reverse</b> - mainshaft w/reverse gear		\$390.00
▲ D	<b>Input Shaft</b> - for XR4Ti		\$325.00	▲ Q	<b>Gear</b> - 1st gear		\$195.00
	for Scorpio		\$295.75	▲ R	<b>Spacer</b> - oil scoop ring		\$3.50
▲ E	<b>Bearing</b> - rear input needle cage	M704	\$8.75	▲ S	<b>Bearing</b> - shaft roller bearing	M705	\$38.35
▲ F	<b>Synchronizer Ring</b> - 3rd/4th gear syncro	M712	\$26.15	▲ T	<b>Circlip</b> - specify thickness size below		\$4.05
▲ G	<b>Blocker Spring</b> - synchronizer	Z60784	.35c		2.42, 2.48, 2.54, 2.61, 2.67mm		
▲ H	<b>Snap Ring</b> - specify size below	M704A	\$2.00	▲ U	<b>Snap Ring</b> - specify size below	M705A	.85c
	1.63, 1.74, 1.85mm				1.75, 1.81, 1.87, 1.93, 1.99mm		
▲ I	<b>Synchronizer Assembly</b> - 3rd/4th gear syncro unit		\$226.30	▲ V	<b>Gear</b> - 5th driven gear		\$250.00
▲ J	<b>Gear</b> - 3rd gear		\$175.00	▲ W	<b>Spacer</b> - oil scoop ring		\$1.20
▲ K	<b>Thrust Ring</b> - retainer 3rd gear		\$2.00	▲ X	<b>Blocker Spring</b> - synchronizer	Z60785	.69c
▲ L	<b>Thrust Washer</b> - thrust washer 1/2	Z61144	\$2.72ea.	▲ Y	<b>Syncro Hub</b> - 5th gear syncro hub assembly		\$175.50
▲ M	<b>Gear</b> - 2nd gear		\$175.00	▲ Z	<b>Synchronizer Ring</b> - 5th gear	M713	\$26.15
				▲ AA	<b>Synchronizer Hub</b> - 5th gear syncro hub		\$150.50
				▲ BB	<b>Bearing</b> - roller bearing (1987 and up)	M707	\$20.50
				▲ BB	<b>Bearing</b> - 19mm needle (85-87) 21 required	M707N	\$1.89
					<b>Spacer/Washer</b> - (1985-87) 2 to 4 required	M707S	\$1.50
				▲ CC	<b>Gear Cluster</b> - countershaft gear cluster		\$425.65
				▲ DD	<b>Bearing</b> - roller ball bearing	M706	\$49.00
				▲ EE	<b>Circlip</b> - specify thickness size below		\$2.00
					1.88, 1.95, 2.12, 2.19, 2.25mm		
				▲ FF	<b>Gear</b> - 5th driver gear		\$184.25
				▲ GG	<b>Nut</b> - countershaft nut (12 sided)	M706N	\$4.35
				▲ HH	<b>Countershaft</b> - shaft only	Z61892	\$60.50
				▲ II	<b>Gear</b> - reverse idler gear		\$175.20
				▲ JJ	<b>Bushing</b> - reverse idler bush		\$5.00
				▲ KK	<b>Idler Shaft</b> - shaft for reverse idler gear		\$30.50



**Complete Rear Differential Assembly-** New assembled Ford rear differentials with limited slip (3.92:1 ratio). Remove old center section as a whole and replace. Not inexpensive, but a value when you add up the individual component costs and the labor charges on a rebuild. **\$1995.00**

▲ **A Ford LSD Unit-** as standard on some European Sierra models. For std. 7.5 ring & pinion **\$1425.00**

**Quaife LSD Unit-** none better for ultimate strength and smooth performance. For std. 7.5 ring & pinion- includes Cosworth size (large) drive flanges. See page 10 for more information on this item. **M710 \$1245.00**

▲ **B Crown Wheel & Pinion-** new Ford ring & pinion sets. For automatic (3.36:1), manual (3.64:1), optional (3.92:1). **\$550.00**

▲ **B Crown Wheel & Pinion-** new Ford Rally Sport 4.44 racing ring & pinion sets. **\$995.00**

▲ **C Bearing & Seal Repair Kit-** complete differential housing, bearings, oil seal, o-ring. (each) per side **M721 \$94.50**

▲ **D O' Ring-** differential bearing housing o-ring **M722 \$1.98**

▲ **E Oil Seal-** differential bearing housing oil seal **M720 \$8.35**

▲ **F Oil Seal-** pinion oil seal **M725 \$13.20**

▲ **G Flange Nut** **M726 \$3.65**

▲ **H Flange Assembly** **\$63.50**

▲ **I Pinion Nut** **M727 \$13.05**

▲ **J Roller Bearing** **M723 \$59.00**

▲ **K Crush Collar** **M729 \$5.49**

▲ **L Spacer** **\$3.75**

▲ **M Roller Bearing** **M724 \$59.00**

▲ **N Shim-** specify size when ordering **\$4.03**

**Gasket- Rear Differential** XR4 & Scorpio **M730 \$8.15**

▲ **O Differential to Body Mount -XR4** **M430 \$79.50**

▲ **O Differential to Body Mount -Scorpio** **G430 \$79.50**

Note: most differential components are similar for XR4 and Scorpio.



**PAGE 2** *front suspension & steering*

Front Sway Bar- Cosworth 28mm	M407	185.00
Front Strut- Spax Adjustable (each) XR	M401A	165.00
Front Strut- Spax Sport- fixed rate- (each) XR	M401V	99.00
Front Strut- Bilstein-Gas- (each) XR	M401B	97.50
Front Strut- R/S Adjustable (each) XR	M401RS	219.95
Front Strut- Koni Sport (each) Scorpio	G401K	199.95
Front Strut- Boge Turbo-Gas (each) XR	M401S	97.50
Front Strut- Boge Turbo-Gas (each) Scorpio	G401S	101.50
Front Strut- DeCarbon Gas (each) XR	DISCONTINUED	
Front Strut- DeCarbon Gas (each) Scorpio	DISCONTINUED	
Front Strut- KYB GR2 (each) XR	M401Y	99.50
Front Strut- KYB GR2 (each) Scorpio	G401Y	99.50
Steering Rack Assembly* (XR)	M434SR	349.00
Steering Rack Assembly* Scorpio	G434SR	349.00
<i>*this item requires an additional 100.00 charge refundable upon core return</i>		
Steering Rack Bushing H.D. (set)	M434BH	35.50
Steering Rack Boot (left or right) XR & Scorpio	M434RB	15.50
Control Arm* (left) XR	M428L	75.00
Control Arm* (left) Scorpio	G428L	99.50
Control Arm* (right) XR	M428R	75.00
Control Arm* (right) Scorpio	G428R	99.50
<i>*NEW control arms (ball joints and bushings are installed)</i>		
Adjustable Control Arms (pair) w/bushings	DISCONTINUED	
Adjustable Control Arms- Race (pair)	DISCONTINUED	
Bushing- H.D. (GPN) Inner Control Arm (each)	M428BH-N	16.75
Bushing- H.D. (GPN) Inner Control Arm (each) Scorpio	G428BH-N	22.50
Bushings- Urethane Inner Control Arm (set)	M428BU	30.00
Bushings- Urethane Inner Control Arm (set) Scorpio	G428BU	35.00
Bushing (standard) Inner Control Arm (each) XR	C428B	9.50
Bushings*- Urethane Outer Control/Sway (set)	M428BK	70.00
Bushings*- H.D. (GPN) Outer Control/Sway (set)	M428BK-N	50.00
Bushings*(standard) Outer Control/Sway (1 arm pair)	M428B	20.00
<i>*M428B, M428BK &amp; M428BK-N are all suitable for Scorpio</i>		
Washer (shallow)- Sway Bar / Outer TCA (each)	M407W	2.95
Tie Rod End (left) XR	M434L	27.75
Tie Rod End (right) XR	M434R	27.75
Tie Rod End (same L or R) Scorpio	G434	27.50
Mount/Insulator -H.D. Upper Strut (each) XR	M404	24.00
Upper Strut Mount/Insulator- Scorpio (each)	G404	24.50
Upper Strut Rotating Bearing- Scorpio (each)	G403	7.95
Upper Strut Rotating Bearing- XR4 (each)	M403	9.50

**PAGE 3** *suspension components*

Spax Sport Kit -XR	M400S	495.00
Bilstein Sport Kit -XR	M400B	495.00
Spax Sport Kit (adjustable) XR	M400A	669.00
Sport Spring Set (4) front/rear (-25mm) XR	M414M	199.50
Sport Spring Set (4) front/rear (-40mm) XR	M414C	225.00
Sport Spring Set (4) front/rear (standard height) XR	M414S	249.00
Sport Spring Set (4) front/rear (-30mm) Scorpio	G414M	269.00
Front Spring Scorpio - Standard O.E. Ford (each)	G414	76.50
Rear Spring Scorpio - Standard O.E. Ford (each)	G415	106.40
Rear Camber Shim Kit -XR	M423R	30.00
Front Upper Strut Brace (alloy) XR	M403F	149.50
Rear Upper Shock Brace (alloy) XR	M403R	142.50
Rear Upper Shock Brace (steel) XR	M403RS	78.00

*This catalog is viewable and downloadable from our internet site ([www.batinc.net](http://www.batinc.net)) you can get catalog updates there too.*

**IMPORTANT PRICE LIST NOTES:**

- (1) Scorpio versions of listed XR4 parts will generally appear below XR4 item in *italics*.
- (2) Items that apply for both XR4 & Scorpio are noted.
- (3) Fitment notes, and core charge information is also *italicized*.
- (4) Additional items that do not appear in the literature can be found in with the corresponding category / page number reference. These listings are also *italicized*.

**PAGE 4** *suspension components*

Bar Bushing H.D. 25mm- XR4 w/standard bar	M407BU	20.00
Bar Bushing H.D. 28mm- XR4 w/Cosworth bar	M407BAU	20.00
Bar Bushing H.D. 25mm- XR4 w/ std. bar & G407C clamp	G407BA	20.00
Bar Bushing H.D. 28mm- Scorpio	G407BAU	20.00
Front Sway Bar Clamp- Scorpio (each)	M407C	7.50
Steering Rack Assembly* XR	M434SR	349.00
Steering Rack Assembly* Scorpio	G434SR	349.00
<i>*this item requires an additional 100.00 charge refundable upon core return</i>		
Steering Rack Bushing (each)	M434B	8.70
Steering Rack Bushing H.D. (each)	M434BH	20.00
Inner Tie Rod -XR4	M434TK	51.00
Inner Tie Rod -Scorpio	G434TK	51.00
Steering Rack Boot (left or right) XR & Scorpio	M434RB	16.75
Outer Tie Rod End (left) XR	M434L	24.50
Outer Tie Rod End (right) XR	M434R	24.50
Outer Tie Rod End (same L or R) Scorpio	G434	27.50
Power Steering Pump XR4Ti* (integral reservoir)	M434P	135.00
Power Steering Pump XR4Ti* (remote reservoir)	M434PA	136.00
Power Steering Pump Scorpio*	G434P	136.00
<i>*this item requires an additional 25.00 charge refundable upon core return</i>		
P/S Pressure Hose XR4Ti	M434PH	58.33
Strut Boot/Bump Stop (each) XR & Scorpio	M405B	19.00
Strut Insulator/Bearing Kit XR4 (does 1 side)	M403K	7.00
Upper Rotating Bearing XR4 (each)	M403	8.50
Upper Rotating Bearing Scorpio (each)	G403	7.95

**PAGE 5**

Pricing is listed with part numbers on this pages

**PAGE 6** *rear suspension*

Rear Sway Bar w/bush- Cosworth 16mm (XR4)	M408	109.50
Rear Sway Bar w/bush- Cosworth 18mm (Scorpio only)	DISCONTINUED	
Rear Bar End Shackle (each) -XR	M408S	15.00
Rear Bar End Shackle (each) -Scorpio	G408S	15.00
Rear Bar Bush(12mm) urethane (each) stock XR4	M408BU	6.00
Rear Bar Bush (16mm) urethane (each) Cosworth	M408BAU	6.00
Rear Bar Bush (16mm) urethane (each) Scorpio	G408BU	6.00
Rear Control Arm Set -H.D. Competition	DISCONTINUED	
Bushing*- Urethane Outer Control Arm (each)	M424BO	29.75
Bushing*- GPN Outer Control Arm (each)	M424BO-N	30.50
Bushing*- GPN Body Beam Mount (each)	M429B	36.75
Bushing*- Urethane H.D. Body Beam Mount (each)	M429BU	54.50
Bushing*- Urethane Inner Control Arm (each)	M424BI	29.75
<i>*above bushings also Scorpio suitable</i>		
Beam/Subframe Assembly -H.D. Competition	DISCONTINUED	
Rear Shock- Spax Adjustable (each) XR	M402A	95.00
Rear Shock- Spax Adjustable (each) Scorpio	DISCONTINUED	
Rear Shock- Spax Sport- fixed rate- (each) XR	M402V	75.00
Rear Shock- Bilstein- Gas (each) XR	M402B	74.00
Rear Shock- Koni R/S Adjustable (each) XR	M402RS	99.50
Rear Shock- Koni Sport (each) Scorpio	G402K	122.85
Rear Shock- Boge Turbo-Gas (each) XR	M402S	79.50
Rear Shock- Boge Turbo-Gas (each) Scorpio	G402S	62.50
Rear Shock- DeCarbon-Gas (each) XR	DISCONTINUED	
Rear Shock- DeCarbon-Gas (each) Scorpio	DISCONTINUED	
Rear Shock- KYB (each) XR	M402Y	49.95
Rear Shock -KYB (each) Scorpio	G402Y	49.95

**PAGE 7 front brake components**

Front Caliper* (left)- XR & Scorpio	M420CL	64.75
Front Caliper* (right)- XR & Scorpio	M420CR	64.75
<i>M420CL/CR calipers are not supplied with slide pins or bushings (available below)</i>		
Front Caliper Complete* (LH) includes mount & pads	M420CL-L	90.00
Front Caliper Complete* (RH) includes mount & pads	M420CL-R	90.00
<i>*this item requires an additional 75.00 charge refundable upon core return</i>		
Caliper Repair Kit- XR & Scorpio	M420K4A	55.00
Caliper Seal Kit- XR & Scorpio	M420K4	17.75
Caliper Slide Bushings (2) does 1 caliper	M420CB	14.00
Caliper Slide Pins (2) does 1 caliper	M420CP	16.35
Caliper Spring (anti-rattle) each	M420CS	6.39
Front Brake Pad Set*- Mintex A/F (Semi-Metalic)	M420MM	39.00
Front Brake Pad Set*- Mintex 1144 (street/competition)	M420G	75.00
Front Brake Pad Set*- Mintex 1155 (full competition)	M420G	112.30
<i>*brake pads will fit both XR4 and Scorpio</i>		
Front "Low Pad" Sensor Wiring Harness- XR/Scorpio	M420WS	32.49
Front Rotor (standard)- XR (each)	M425	42.50
Front Rotor (standard)- Scorpio (each)	G425	49.75
Front Rotor (x-drilled)- XR (each)	M425CD	79.50
Front Rotor (x-drilled)- Scorpio (each)	G425CD	99.00
Front Rotor (Grooved)- XR (each)	M425G	85.50
Front Rotor (x-drilled & slotted combo)- XR (each)	M425CDS	89.50
Front Rotor (x-drilled & slotted combo)- Scorpio (each)	G425CDS	109.00
Master Cylinder* XR4 1985-86 (Bendix)- XR	M420MC	109.50
<i>*this item requires an additional 20.00 charge refundable upon core return</i>		
Master Cylinder* XR4 1987-89 (Bendix)- XR	M420MCL	122.50
<i>*this item requires an additional 50.00 charge refundable upon core return</i>		
Aeroquip Front Brake Lines (pair)- XR4 (1985-86)	M419	42.50
Front Brake Line O.E. Rubber (each)- XR4 (1985-86)	M419SF	25.75
Aeroquip Front Brake Lines (pair)- XR4 (1987-89)	G419	52.40
Aeroquip Front Brake Lines (pair)- Scorpio	G419	52.40
ABS Brake Sensor Scorpio/XR4- Front	G420SF	179.75

**PAGE 8 brake kits & specials**

Front Brake Spacial- XR	M420SP	105.00
Front Brake Spacial- Scorpio	G420SP	115.00
Front R/S Brake Kit 283x24mm (standard)	M417	295.00
Front R/S Brake Kit 283x24mm (w/x-drill)	M417A	329.00
Front R/S Brake Kit 283x24mm (standard/M1144)	M418	339.00
Front R/S Brake Kit 283x24mm M1144/x-drill)	M418A	395.00
BAT/Wilwood Brake Kit 283mm	M416W	645.00
BAT/Wilwood Brake Kit 300mm	M416W3	725.00

**PAGE 9 rear brake components**

Rear Wheel Cylinder- XR	M420WC	35.95
Rear Brake Shoe Set (Motorcraft/Mintex)- XR	M420R	49.95
Rear Brake Drum- XR	M420RD	137.75
Rear Brake Drum (grooved)- XR	M420RDG	DISC
Aeroquip Rear Brake Lines (pair)- XR	M419R	47.50
Rear Brake Line O.E. Rubber (each)- XR4 (1985-89)	M419SR	27.45
Aeroquip Rear Brake Lines (4 line set)- Scorpio	G419R	85.00
Rear Brake Hardware Kit- XR	M420K5	25.60
Rear Brake Special- XR	M420RSPL	125.00
Rear Disk Brake Kit- XR	M420RK	689.00
Hand Brake Cable- XR	M564	47.50
Handbrake Cable- Scorpio	G564	47.50
Hand Brake Cable- Cosworth	Z16567	47.50
Rear Caliper* (specify left or right) for M420RK kit		127.50
<i>*this item requires an additional 75.00 core charge refundable upon core return</i>		
Rear Rotor (each) for M420RK kit		52.50
Rear Brake Pad (set) for M420RK kit		25.00
Rear Rotor (standard)- Scorpio (each)	G425R	39.75
Rear Rotor (x-drilled)- Scorpio (each)	G425RCD	92.00
Rear Caliper (left)- Scorpio (each)	G420RL	124.50
Rear Caliper (right)- Scorpio (each)	G420RR	124.50
<i>*this item requires an additional 75.00 core charge refundable upon core return</i>		
Rear Brake Pad Set- Scorpio (Semi-Metalic)	G420R	39.00
ABS Brake Sensor Scorpio/XR4- Rear	G420SR	177.25

**PAGE 10 driveline components**

C.V. Joint- XR & Scorpio	M550B	92.50
C.V. Boot Kit- XR & Scorpio	M550BK	14.90
C.V. Socket Head Cap Screw (6 per joint)	M550CS	1.05ea
C.V. Locking Plate (3 per joint)	M550LP	1.35ea
Axle/Halfshaft Complete* (LH)- XR & Scorpio	M550L	169.50
Axle/Halfshaft Complete* (RH)- XR & Scorpio	M550R	169.50
<i>*axle/halfshaft, joints (2), boots (2), assembled/greased ready for installation</i>		
<i>add 75.00 core charge for this item- refundable on return</i>		
Driveshaft Coupling- XR & Scorpio	M17A	62.50
Driveshaft Center Support Bearing-XR	M550SB	109.75
Driveshaft Center Support Bearing- Scorpio	G550SB	98.00
Quaife LSD	M710	1245.00
Clutch Kit Sachs- XR	M519K	179.50
Clutch Kit Sachs- Scorpio	G519K	257.50
Clutch Kit Sachs- XR w/ T-5 trans	M519T5	179.50
H.D. Clutch Kit Centerforce (30% kit)	M519C	309.95
H.D. Clutch Kit Centerforce II (50% kit)	M519C2	361.98
Clutch Alignment Tool (1" 23 spline)	S11H	6.00
Clutch Cable- XR4Ti	M562	29.50
Clutch Cable- Scorpio	G562	76.50

**PAGE 11 brake components**

Brake Fluid AP550 (500 ml)	MC550	10.70
Brake Fluid Wilwood 570 (355 ml)	MC570	5.95
Brake Fluid Wilwood 570 (6-pack)	MC57-6	33.00
Brake Fluid Wilwood 570 (24 case)	MC57-C	119.00
Front Rotor Cosworth 283 x 24mm (standard)	M426	75.00
Front Rotor Cosworth 283 x 24mm (X-drilled)	M426CD	108.00
Front Rotor Cosworth 283 x 24mm (Grooved)	M426G	130.00
Rear Rotor Cosworth 273 x 10mm (standard)		45.00
Rear Rotor Cosworth 273 x 10mm (X-drilled)		65.00
Rear Rotor Cosworth 273 x 10mm (Grooved)		86.50
Front Rotor Scorpio 260 x 24mm (standard)	G425	49.75
Front Rotor Scorpio 260 x 24mm (X-drilled)	G425CD	99.00
Rear Rotor Scorpio 253 x 10mm (standard)	G425R	39.75
Rear Rotor Scorpio 253 x 10mm (X-drilled)	G425RCD	92.10
Front Brake Kit- BAT R/S 285 x 24mm (standard)	M418	339.00
Front Brake Kit- BAT R/S 285 x 24mm (x-drilled)	M418A	395.00
Front Brake Kit- Wilwood 283 x 24mm	M417	645.00
Front Brake Kit- Wilwood 300 x 32mm	M416A	1295.00
Front Brake Kit- Wilwood 300 x 32mm (Scorpio)	G416A	1395.00
Rear Brake Kit- Wilwood 300 x 21mm		1200.00
Front Wheel Bearing Kit (RH)-XR	M560FR	42.00
Front Wheel Bearing Kit (LH)-XR	M560FL	42.00
Front Wheel Bearing Kit (RH) Scorpio	G560FR	59.00
Front Wheel Bearing Kit (LH) Scorpio	G560FL	59.00
Rear Wheel Bearing Kit (RH)-XR	M560RR	42.00
Rear Wheel Bearing Kit (LH)-XR	M560RL	42.00
Rear Wheel Bearing Kit (RH) Scorpio	G560RR	98.75
Rear Wheel Bearing Kit (LH) Scorpio	G560RL	98.75
Nut- Front Hub (LH) blue	M550N-LF	6.65
Nut- Front Hub (RH) yellow	M550N-RF	6.65
Nut- Rear Hub (LH) white	M550N-LR	7.42
Nut- Rear Hub (RH) white	M550N-RR	7.42



**BAT** is always testing and developing new products....if you don't see it listed ask... we might have what you are looking for, or can point you in the right direction.

## PAGE 12

### body work & sheet metal

Front Fender (left)	M806L	150.00
Front Fender (right)	M806R	150.00
Inner Wheel Well Splash/Liner (left)	M808L	175.00
Inner Wheel Well Splash/Liner (right)	M808R	175.00
Side Blinker Lamp Kit	M317	39.95
Door Skin (left)	M807L	99.50
Door Skin (right)	M807R	99.50
Door Handle XR/Scorpio (left)	M362L	38.50
Door Handle XR/Scorpio (right)	M362R	38.50
Door Sill- Rocker (left)	M803L	49.25
Door Sill- Rocker (right)	M803R	49.25
Rear Wheel Arch (left)	M804L	30.00
Rear Wheel Arch (right)	M804R	30.00
Under Battery Repair	DISCONTINUED	
Battery Tray	M817	25.50
Rear Valance Panel	M815	115.00
Rear Hatch Lock Assembly (with 2 keys)	M815L	46.15
Cosworth Grille (with Ford emblem)	M320	195.00
Grille Surround Gasket	M320S	33.50
Cosworth Hood	DISCONTINUED	
Cosworth Hood Vents (left & right- pair)	DISCONTINUED	
Cosworth R/S Spoiler Bumper Kit* (white)	M353	1295.00
Cosworth R/S Spoiler Bumper Cover (only)		975.00
*includes- bumper, turn lamps, fog lamps, brackets & hardware		
Lower flexible "Skirt" for above R/S Bumper	M353S	89.00
Cosworth R/S 500 Spoiler Bumper Kit*	M353RS	2225.00
*includes- bumper, splitters, turn lamps, fog grilles, brackets & hardware		
Cosworth R/S 500 Spoiler Bumper Cover (only)		1575.00
Lower R/S 500" Splitters" (pair)		380.00

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### body work

F.Spoiler Bumper (R/S Cosworth) Fiberglass	M353F	375.00
F.Spoiler Bumper (R/S 500) Fiberglass- w/splitters	M353FA	425.00
Turn Lamp- Cosworth Bumper (RH)		38.50
Turn Lamp- Cosworth Bumper (LH)		38.50
Fog Lamp- Cosworth Bumper (RH)		47.00
Fog Lamp- Cosworth Bumper (LH)		47.00
Rear Bumper- Fiberglass		395.00
Rear Wing/Airfoil (R/S Cosworth) Fiberglass	M306F	395.00
Rear Wing/Airfoil (R/S 500) Fiberglass	M306FA	449.00
Rear Deck Spoiler (R/S 500) Lower- Fiberglass	M306L	149.00
Wheel Arches (4) &		
Side Skirts (2) (R/S Cosworth) Fiberglass	M302F	425.00
Hood (R/S Cosworth) includes Vent Louvers		395.00
Hood Vent Louvers (2) Fiberglass (functional)	M814F	139.00
Hood Vent Louvers (2) Plastic- non functional stick-ons	M814S	65.50

## PAGE 14

### trim & lighting

Sierra Emblem	M321S	17.95
Sierra XR4i Sticker (red)	M352R	11.15
Sierra XR4i Sticker (anthracite/gray)	M352A	11.15
Sierra R/S Emblem	M321RS	29.75
Cosworth Emblem	M321C	18.95
Sierra R/S Cosworth Sticker	M352C	19.65
R/S Emblem	M352RS	14.00
Ghia Emblem (crest)	M352G	16.65
Ghia Emblem (script) -rear deck lid on Scorpio	G352G	17.25
2.9i Emblem -rear deck lid on Scorpio	G354L	15.25
Scorpio Emblem- rear door sail panel	G352S	15.75
Ford Emblem	C321	18.00
Sierra Eurolamp Kit- lamps, bulkheads, bulbs	M318	369.00
Sierra Eurolamp (left) lamp only	Z61657	150.00
Sierra Eurolamp (right) lamp only	Z61656	150.00
Replacement (LHD) Lens (left)	Z611466	99.50
Replacement (LHD) Lens (right)	Z611467	99.50
Scorpio Euro Lamp Kit- lamps, grille, turn lamps, bulbs	G318	649.00
Fog Lamp Scorpio (left)	G349L	59.00
Fog Lamp Scorpio (right)	G349R	59.00
Bulb H4 55/60 watt	Z H455/60	4.00
Bulb H4 55/100 watt	Z H455/100	8.79
Bulb H4 80/100 watt	Z H480/100	15.00
Bulb H3 55 watt	Z H355	4.00
Bulb H3 100 watt	Z H3100	8.79
Bulb 880 50 watt "Blue Ion" (for XR4Ti fog lamps)	Z 880/50	8.79
Bulb 9004 "Bright White" 45/65 watt	Z 9-45/65W	11.00
Bulb 9004 55/100 watt	Z 9-55/100	10.98
Bulb 9004 80/100 watt	Z 9-80/100	12.98
Bulb 9004 "Blue Ion" 55/100 watt	Z 9-55/100B	12.98
Relay (Hella #87118) 12 volt	Z Relay12	14.10
Tail Lamp Seal (each)	M319S	17.00
Tail Lamp Socket (each)	M319LS	27.50

## PAGE 15-16

### wheels

Pricing is listed with part numbers on these pages

## PAGE 17

### accessories

Scorpio R/S Rear Wing	DISCONTINUED	
Scorpio R/S Side Skirts	DISCONTINUED	
Scorpio Cowl Cover	G369C	39.00
Mini-Lite Wheel 15' x 7" (each) XR4	DISCONTINUED	
Thrust* Wheel 15' x 7" (each) XR4	M411T	109.00
*specify color- silver or charcoal wheel when ordering		
Floor Mat Set (front) XR4 & Scorpio	M1010	30.50
Floor Mat Set (rear) XR4	M1011	20.50
First Aid Kit	DISCONTINUED	
Fuse Box Cover	M474	19.75
Sunroof Wind Deflector- XR4 & Scorpio	DISCONTINUED	
Side Window Wind Deflector (pair)- XR4	DISCONTINUED	



BAT "Faster Fords"  
tee shirts  
(large & x-large sizes)  
gray color  
\$8.95



**PAGE 18** **accessories**

Cosworth Steering Wheel	DISCONTINUED	
Cosworth Sapphire Steering Wheel	DISCONTINUED	
Horn Button Center	DISCONTINUED	
Dash Cover/Overlay -XR4	M323	99.50
Dash Cover/Overlay -Scorpio	G323	131.25
White Gauge Face Set 150mph	M341W	109.00
Speedometer 170 mph	DISCONTINUED	
Speedometer 150 mph	DISCONTINUED	
Bulb- Dash Instrument (each)	M330L	3.43
Bulb- Dash Waring Lamp (each)	M330WL	1.85
Torch Key Blank & Battery	C309KL	14.25
<i>Torch Key Blank &amp; Battery -Scorpio</i>	<i>G309KL</i>	<i>15.70</i>
Torch Key Blank- XR	Z61179	6.50
<i>Torch Key Blank- Scorpio</i>	<i>Z64948</i>	<i>7.50</i>
Lamp & Battery- XR4 & Scorpio	C309KLB	9.85
Standard Key- XR	C309K	6.25
<i>Standard Key -Scorpio</i>	<i>G309K</i>	<i>7.50</i>
Rear Hatch Lock Assembly (w/ 2 keys)	M815L	46.10
Rear Hatch Striker	M815S	7.45
Hatch Lock Retaining Clip	M815C	1.15
Car Lock Set (doors, hatch, ignition w/ keys) XR4	M309LS	98.50
<i>Car Lock Set (doors, hatch, ignition w/ keys) Scorpio</i>	<i>G309LS</i>	<i>98.50</i>

**PAGE 19** **accessories**

Windshield Wiper Headlamp Switch (Stalk)- XR4	M304	104.90
Turn Signal Flash/Hazard Switch (Stalk)- XR4	M305	97.50
Fuse Box Cover- XR4	M474	19.75
Door Post Black-Out Trim (left)	M340TL	29.95
Door Post Black-Out Trim (right)	M340TR	29.95
Pedal Pad- Accelerator XR & Scorpio	M365A	5.95
Pedal Pad- Clutch XR & Scorpio	M365C	5.95
Pedal Pad- Brake (manual) XR & Scorpio	M365B	5.95
Pedal Pad- Brake (automatic) XR & Scorpio	M365BA	6.49
Rear Hatch Lift Strut (each)- XR4	M308	30.00
<i>Rear Hatch Lift Strut (each)- Scorpio</i>	<i>G308</i>	<i>31.50</i>
Rear View Day/Night Mirror- XR4 & Scorpio	C339	41.50
Replacement Stick-on Pad for Rear View Mirror	M339S	3.89

**PAGE 20** **books**

The Sporting Fords- Sierra	M207	27.50
High Performance Sierras & Merkurs	M206	24.75
Classics in Color- Ford Sierra Cosworth	M203	23.50
European Sierra Workshop Manual	M204	32.00
European Sierra XR4i 2.8L Workshop Manual	M204A	32.00
European Scorpio/Granada Workshop Manual	G204	34.00
Tuning/Building Ford V6 Engines	G202	17.50
Workshop Manual- Sierra/Escort Cosworth (2 volumes)	M202	100.00
The Complete 2.3 Turbo EEC-IV Handbook	M209	13.00
How to Prepare the Sierra for Motorsport	M205	22.50

**OTHER FORD CAR & ENGINE RELATED BOOKS & MANUALS**

<i>Workshop Manual- Fiesta 1.6L</i>	<i>C204</i>	<i>20.00</i>
<i>Workshop Manual- Escort 1.6/1.9L</i>	<i>E204A</i>	<i>12.50</i>
<i>Tuning/Building Ford "KENT" Series Engines</i>	<i>F202</i>	<i>29.50</i>
<i>Building Formula Ford 1600 Engines</i>	<i>F203</i>	<i>32.00</i>
<i>Tuning/Building Ford 2.0 SOHC and DOHC Engines</i>	<i>S202</i>	<i>25.75</i>
<i>Tuning/Building Ford V6 Engines</i>	<i>G202</i>	<i>17.50</i>
<i>Workshop Manual- Pinto/Bobcat 2.0/2.3L</i>	<i>S203</i>	<i>12.50</i>
<i>2000 OHC "Pinto" Engine Performance</i>	<i>S204</i>	<i>27.95</i>
<i>Workshop Manual- Capri MK1 2.6/2.8L V6</i>	<i>S205</i>	<i>12.50</i>

**PAGE 21** **cooling system (XR4)**

Hose- heater valve to pipe (to oil cooler)	M421HC	16.50
Hose- heater valve to heater core	M421H	8.90
& pipe (front) to thermo housing		
Hose- heatervalue to pipe (upper @ rear)	M421HB	11.00
& oil cooler to pipe		
Heater Valve- XR & Scorpio	M421V	69.00
Hose- water pipe to oil cooler-over v. cover	M421HE	29.00
Hose- oil cooler to intake mflid.	M421HD	7.95
Oil Cooler	AWC1	110.00
Hose- pipe @ front to water pump	M421HA	11.50
Hose- pipe @ front to thermo housing	M421H	8.90
Thermostst Housing- H.D. cast iron	L2F	22.50
Water Pump (new)	L6A	73.10
Water Pump (recon)	L6AR	35.00
Hose- radiator lower 85-88(MT & auto)	M421BH	29.00
Hose- radiator lower 1989 (MT & auto)	M421BH9	41.00
Hose- radiator upper 85-88 (MT & auto)	M421TH	18.50
Hose- radiator upper 1989 (MT & auto)	M421TH9	49.00
Hose- expansion tank (top fitting) tovalve cover pipe	M421TT	11.45
Coolant Tank1985-88* (with level sensor bung)	M421E	49.75
Coolant Tank 1989* (without sensor bung)	M421E9	55.25
<i>*coolant tanks require Scorpio thread-on cap use G421C</i>		
Coolant Tank Thread-on Cap (for above tanks)	G421C	7.35
<i>Water Level Sensor (in radiator surge tank) XR4</i>	<i>M421LS</i>	<i>49.50</i>
<i>Tank Gromet, Spacer Ring, Lock Collar ( for above sensor)</i>	<i>M421SK</i>	<i>9.40</i>
Hose- expansion tank (middle fitting) to radiator	M421TM	11.50
Hose- expansion tank (lower fitting) to radiator drain line	M421TL	29.00
<i>Hose- expansion tank to W/Pump (automatic "Y" hose)</i>	<i>M421Y</i>	<i>45.00</i>
Radiator XR4Ti- 85-88 (MT)	M421R	250.00
Radiator XR4Ti- 1989 (MT)	M421R9	295.00
Radiator XR4Ti- 85-88 (Auto)	M421RA	260.00
Radiator XR4Ti- 1989 (Auto)	M421R9A	329.00
Mount/Bushing (radiator top)	M421RM	7.20
Electric Fan 16" (puller)	A16F-PL	89.00
Thermostatic Fan Relay (170-210f adjustable)	AFTR1	55.00
Blower Motor & Fan- A/C & heater	M470A	174.50
Heater Core	M471	89.50
Hose- Hi-temp silicone (1 foot length- makes 3 hoses)	M421WT	7.00
Hose- Lower drain pipe @ radiator lower (MT)	M421HF	8.50

**PAGE 22** **cooling system (Scorpio)**

<i>Hose- heater valve (out) to core</i>	<i>G421HA</i>	<i>8.90</i>
<i>Hose- heater valve to engine</i>	<i>G421HB</i>	<i>17.50</i>
<i>Hose- heater valve (inlet) to core</i>	<i>G421HC</i>	<i>13.95</i>
<i>Hose- heater valve to pipe</i>	<i>G421HD</i>	<i>18.75</i>
<i>Radiator (automatic)</i>	<i>G421RA</i>	<i>289.00</i>
<i>Radiator (manual)</i>	<i>G421R</i>	<i>289.00</i>
<i>Hose- tank to thermstat housing</i>	<i>G421HF</i>	<i>11.20</i>
<i>Hose- upper radiator</i>	<i>G421TH</i>	<i>35.00</i>
<i>Hose- tank to water pump</i>	<i>G421HH</i>	<i>24.49</i>
<i>Water Pump (new)</i>	<i>G421</i>	<i>94.25</i>
<i>Water Pump (recon)</i>	<i>G421A</i>	<i>64.50</i>
<i>Hose- bypass/ water pump outlet to inlet mflid.</i>	<i>G421HP</i>	<i>18.25</i>
<i>Hose- lower radiator</i>	<i>G421BH</i>	<i>28.35</i>
<i>Hose- lower radiator (late 89) w/tee off hose</i>	<i>G421BH-9</i>	<i>35.75</i>
<i>Hose- to oil cooler pipe</i>	<i>G421HK</i>	<i>17.90</i>
<i>Hose- oil cooler pipe to oil cooler</i>	<i>G421HL</i>	<i>9.90</i>
<i>Coolant Tank (late style 6-88&gt;2-92) rectangular shape</i>	<i>G421TL</i>	<i>46.00</i>
<i>Coolant Tank (early style &gt; 6-88) curved side</i>	<i>G421TE</i>	<i>46.00</i>
<i>Coolant Tank Cap (thread-on) Scorpio &amp; late XR4</i>	<i>G421C</i>	<i>7.35</i>
<i>Oil Cooler</i>	<i>AD1000</i>	<i>110.00</i>
<i>Heater Control Valve- XR4 &amp; Scorpio</i>	<i>M421V</i>	<i>69.00</i>
<i>Heater Core- Scorpio</i>	<i>M471</i>	<i>89.50</i>
<i>Mechanical Fan Clutch Assy</i>	<i>G422</i>	<i>195.00</i>
<i>Electric Fan 16" (puller)</i>	<i>A16F-PL</i>	<i>89.00</i>
<i>Thermostatic Fan Relay (170-210f adjustable)</i>	<i>AFTR1</i>	<i>59.00</i>
<i>Blower Motor &amp; Fan- A/C Heater (Scorpio)</i>	<i>G470H</i>	<i>230.00</i>

**PAGE 23** **cooling system (Scorpio)**

Hose- heater valve (out) to core	G421HA	8.90
Hose- heater valve to engine	G421HB	17.50
Hose- heater valve (inlet) to core	G421HC	13.95
Hose- heater valve to pipe	G421HD	18.75
Heater Control Valve- XR4 & Scorpio	M421V	69.00
Hose- coolant pipe to oil cooler from heat valve	G421HL	9.90
Oil Cooler- oil to water heat exchanger	AD1000	110.00
Hose- oil cooler to coolant pipe	G421HM	14.40
Hose- coolant pipe from oil cooler to water pump	G421HK	17.90
Hose- bypass/ water pump outlet to inlet mflid.	G421HP	14.10
<hr/>		
Hose- upper radiator (late 89) w/vent	G421TH-9	35.00
Hose- coolant tank to thermo housing	G421HF-9	16.45
Tank Lever Sender	M421LS	49.50
Lever Sender Install Kit	M421SK	9.40
Cap/Plug- Rubber	G421P	2.50
Hose- lower radiator (late 89) w/tee off hose	G421BH-9	35.75
Coolant Tank (6/88>89) Oval Type	G421T	52.00
Coolant Tank (late style 6-88>2-92) rectangular shape	G421TL	46.00
Radiator Cap (thread-on) Scorpio & late XR4	G421C	7.35

**PAGE 24** **A/C system**

Evaporator- (XR4 & Scorpio)	M470E	245.75
Expansion Valve - (XR4 & Scorpio)	M470EV	46.50
Blower Motor - (XR4) O.E. Ford	M470A	198.00
Blower Motor - (Scorpio) O.E. Ford	G470A	230.00
Refrigerant Hoses*- (XR4Ti only)	M470H	149.00
Refrigerant Hoses*- (Scorpio)	G470H	129.00
<i>*this item requires an additional 100.00 charge refundable upon core return</i>		
Compressor- (XR4 & Scorpio) includes clutch	M470C	429.00
Clutch Assembly*- (XR4 & Scorpio)	M470CL	157.50
<i>*this item requires an additional 25.00 charge refundable upon core return</i>		
Condenser- (XR4)	M470D	335.00
Condenser- (Scorpio)	G470D	335.00
Electric Condenser Fan- 16" Pusher (XR4 & Scorpio)	A16F-PU	89.00
Fan Mounting Tie Set (for above fan)	ABKT1	7.95
Pressure Switch- (XR4 & Scorpio) O.E. Ford	DISCONTINUED	
Receiver/Dryer- (XR4 & Scorpio)	M470R	108.00
Receiver/Dryer- (XR4 & Scorpio) O.E. Ford	M470R-F	131.50

**PAGE 25** **turbo components**

Wastegate Actuator* -Reman.	M521WR	95.00
<i>*this item requires an additional 30.00 charge refundable upon core return</i>		
Turbo/Reman* (specify auto or 5-speed)	M522TR	425.00
Performance Turbo*	M522TM	649.00
<i>*this item requires an additional 100.00 charge refundable upon core return</i>		
Intercooler Kit	M522IC	1195.00
Adjustable Boost Kit	M521BV	48.00
Wastegate Actuator (adjustable rod- dual port)	M521WA2	124.50
Cockpit Mount Adjustable Boost Kit (remote valve)	M521TB	84.25
Turbo Oil Feed Pipe	M522P	20.75
Turbo Inlet Hose (45 degree elbow)	M22H	44.50
Turbo Base Gasket	L521GT	8.75

**PAGE 26** **engine & related**

Main Bearing Set (STD)	L16A	32.65
Main Bearing Set (+.010")	L16B10	32.65
Main Bearing Set (+.020")	L16B20	32.65
Main Bearing Set (+.030")	L16B30	32.65
Rod Bearing Set (STD)	L16H	16.35
Rod Bearing Set (+.010")	L16110	16.35
Rod Bearing Set (+.020")	L16120	16.35
Rod Bearing Set (+.030")	L16130	16.35
Cam Bearing Set	L16M	18.50
Cam Bearing Set- grooved	L16MA	18.50
Aux. Shaft Bearing	L5DC	10.50
Connecting Rod Bolt Set H.D. (standard 2.3 rod)	L4FS	44.30
Connecting Rod Bolt Set H.D. (5.7" Chevy rod)	L4FSC	35.00
Head Stud Set H.D.	L2DS	98.40
Main Stud Set H.D.	L2KS	89.20
Full Gasket Set (complete engine) Felpro	L15AA	95.00
Top End Gasket Set Felpro	L15BA	55.50
Bottom End Gasket Set (block, crank & sump) Felpro	L15CA	40.10
Pan Set- sump rails & seals (cork)	L15CP	22.05
Head Gasket H.D. (Ford Motorsport turbo style)	L15D	16.00
Head Gasket H.D.- Felpro	L15DA	19.50
Head Gasket Competition (extreme duty racing gasket)	L15DR	29.50
Head Space Shim .020"	L15DS	17.85
Valve Cover Gasket (standard cork)	L15E	6.75
Valve Cover Gasket H.D. 2300 (hi-temp rubber)	L15EA	24.00
Valve Cover Gaskets H.D. 2.9L V6 (hi-temp rubber)	G15EA	15.50
Intake Manifold Gasket Set	L15FA	11.40
Water Outlet Gasket (thermostat housing)	L15N	CALL
Water Pump Gasket (pump to block)	L15P	CALL
Crankshaft Rear Seal	L15Q	CALL
Camshaft Seal	L15R	8.25
Auxiliary Shaft Seal	L15S	9.25
Crankshaft Front Seal	L15T	16.08
Inlet Hose- Turbo to T.Body (silicone blue)	M22H	45.00
Performance Exhaust System 3" (full system)	M522	705.00
Performance Exhaust System 2.5" (down pipe w/cat back)	M522B	425.00
Exhaust Down Pipe 3"	M522DP	169.00
Exhaust Manifold (standard cast Fomoco)	M521	187.50
Exhaust Header 2.3 Turbo (tubular stainless steel)	L521T	659.00
Gasket- turbocharger to manifold (stainless)	L521GT	8.75
Exhaust Hanger (rubber donut) each	C522H	5.25

**PAGE 27** **engine & related**

Air Filter- XR4Ti (2.3L Turbo)	M22P	39.90
Air Filter- Scorpio (2.9L V-6)	G22P	50.00
Mylar Fyre Foil Sleeve -10 (7/8" I.D.) per foot	320510	4.55
Mylar Fyre Foil Sleeve -12 (1" I.D.) per foot	320512	4.90
Mylar Fyre Foil Sleeve -16 (1 1/4" I.D.) per foot	320516	5.64
Mylar Fyre Foil Sleeve -20 (1 1/2" I.D.) per foot	320520	6.32
Motor Mount Insulator (left or right same) XR- each	M433	99.95
Motor Mount Insulator (L or R same) Scorpio- each	G433	71.25
Transmission Mount/Insulator- Scorpio	G433T	39.50
Transmission Mount/Insulator H.D.	M433TA	53.00
Trans Crossmember XR (wide) 87-89 manual & auto	DISCONTINUED	
Trans Crossmember XR (narrow) 85-86 manual & auto	DISCONTINUED	
Belt- XR4Ti (1985-89) W. Pump, Alt, P. Steering	M6G	14.95
Belt- XR4Ti (1986-89) A/C Comp.	M6H	12.05
Belt- XR4Ti (1985) A/C Comp.	M6HA	12.15
Belt- Scorpio (1988-89) Fan & Power Steering	G6G	16.40
Belt- Scorpio (1988-89) Alternator	G6GA	15.50
Belt- Scorpio (1988-89) A/C Comp.	G6H	12.60
Ignition Wire Set- XR4Ti (8mm )	L9HT	39.95
Ignition Wire Set- XR4Ti (8.5mm KV85 wire)	M9HT	69.50
Ignition Wire Set- XR4Ti (10mm R-100 wire)	M9HTR	79.00
Ignition Wire Set- Scorpio (8mm)	G9HT	50.75
Ignition Wire Set- Scorpio (8.5mm KV85 wire)	G9HT9	88.75

**Pages 28-30**

Pricing is listed with part numbers on these pages

**PAGE 31 engine & related**

Distributor Cap H.D. 2.3L	L9B	19.45
Distributor Rotor H.D. 2.3L (85-86 screw-down type)	L9F	7.95
Distributor Rotor H.D. 2.3L (87-89 push-on type)	L9FA	11.75
TFI Module 2.3L -Motorcraft XR & Scorpio	L9M	85.50
Distributor* 2.3L	L9AB	119.00
<i>*this item requires an additional 35.00 charge refundable upon core return</i>		
Distributor* 2.9L V6	G9AB	110.25
<i>*this item requires an additional 55.00 charge refundable upon core return</i>		
Computer* XR4Ti (specify auto or manual)	DISCONTINUED	
Computer* Scorpio (specify auto or manual)	DISCONTINUED	
<i>*this item requires an additional 75.00 charge refundable upon core return</i>		
Electric Fan Switch -XR	M450FS	31.95
Knock Sensor -XR	M450KS	63.50
Engine Coolant Temp. Sensor (ECT) -XR & Scorpio	M450EC	33.25
Idle Speed Sensor (Air Bypass Valve) -XR & Scorpio	M450IS	87.50
Throttle Position Sensor (TPS) -XR (order with year)	M450TP	47.60
Oxygen Sensor -XR	M450OS	60.50
Oil Pressure Switch -XR	M450P	7.75
Water Temp Gauge Sender (purple band) -XR	DISCONTINUED	
Air Charge Temp Sensor (ACT)- Scorpio	G450A	29.25
Coolant Temp. Sensor (ECT)- XR & Scorpio	M450EC	28.45
MAP Sensor -Scorpio	G450M	97.50
Oil Pressure Switch -Scorpio	G450P	6.00
Oxygen Sensor -Scorpio	G450OS	137.50
Vehicle Speed Sensor- Scorpio	G450S	109.00
Throttle Position Sensor- Scorpio	G450TP	153.00
A/C Compressor -XR & Scorpio	M470C	449.00
Alternator* -XR	M24A	235.00
Alternator *-Scorpio	G24A	235.00
<i>*this item requires an additional 10.00 charge refundable upon core return</i>		
Starter* -XR	M23A	87.50
Starter* -Scorpio	G23A	220.00
<i>*this item requires an additional 30.00 charge refundable upon core return</i>		
Fuel Injector 35lb. XR4Ti (Brown Top) reman	M7G	55.00
Fuel Injector 35lb. (Disk Type) new	DISCONTINUED	
Vane Air Meter* 50mm (T-Bird)	L7V	164.50
Vane Air Meter* 65mm (SVO)	L7VA	175.00
Vane Air Meter* XR4Ti Standard	L7VM	255.00
<i>*this item requires an additional 75.00 charge refundable upon core return</i>		
Fuel Pressure Regulator -XR	M7PR	59.00
Electric Fuel Pump- XR (high pressure) in line	M10A	165.00
Electric Fuel Pump- XR (low pressure) in tank	M10AT	125.00

**PAGE 32 transmission related**

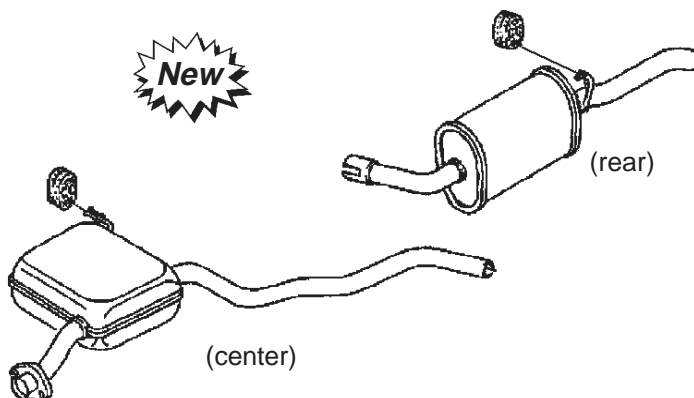
Oil Seal- input shaft (front) T9	M703	9.30
Gasket- input bearing retainer to main case T9	M702G	2.05
Gasket- top cover T9	M716	6.75
Oil Seal- extension housing (tail shaft) T9	M719	11.80
Gasket- adaptor plate (bearing carrier) to main case T9	M709	4.95
Gasket- adaptor plate (carrier) to ext. housing (tail) T9	M708	8.90
Short Shift Kit	M715	55.00
Shifter- competition gear lever (shifter) assembled	M717	114.50
Torco Gear Oil (quart)	C2S	10.25
Quadrant & Pawl Kit	M368	18.90
Transmission T9 (remanufactured)	M700	CALL

**PAGE 33-34**

Pricing is listed with part numbers on these pages

**NEW ITEMS.... Too Late To Classify**

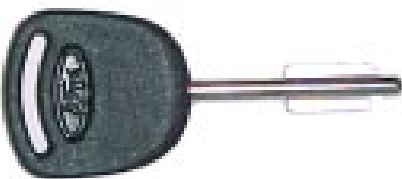
Valve Cover Gaskets H.D. 2.9L V6 (h.d. rubber)	G15EA	15.50
Head Gasket 2.9L V6 (RH)	G15DR	22.50
Head Gasket 2.9L V6 (LH)	G15DL	22.50
Main Bearing Set 2.9L V6 (specify size)	G16A	53.10
Rod Bearing Set 2.9L V6 (specify size)	G16H	31.05
Weather Seal - Rear Hatch to Body -Scorpio	G340HS	80.00
Electric Window Switch (door/console)- Scorpio	G340S	31.10
Rear Sensor Wiring (low pad warning) Scorpio	G420SWR	39.45
Vacuum Modulator- A4LD Auto Trans	G750M	26.00
Shop Manual T9 Transmission	M201	13.95
Weather Seal- Rear Hatch to Body- XR	M340HS	79.90
Moulding/Seal Front Windshield-XR	M340F	30.00
Weather Seal- Sunroof Opening- XR	M340SR	71.00
Weather Strip- Sliding Sunroof Panel- XR	M340SRP	24.25
Electric Window Switches (2) Console-XR	M340S	47.30
Ignition Switch (Electrical)- XR	M350A	41.75
Ignition Lock Cylinder & Keys- XR	M350L	69.00
Plastic Rivet- for exterior body cladding- XR	M366R	.75
Wiper Link Arm (long) ties L & R arms- XR	M369	14.35
Wiper Motor Link Arm (short) XR	M369A	14.35
Front Sensor Wiring (low pad) XR & Scorpio	M420SW	32.50
Bushing- Body Beam Mount Standard	M429	36.00
PCV Valve- XR	M450V	5.00
Rotary Fan Switch HVAC- XR	M470FS	60.00
Rear Wheel Bearing Carrier- XR	M550BC	96.25
Rear Stub Axle (LH) XR & Scorpio	M550SL	129.00
Rear Stub Axle (RH) XR & Scorpio	M550SR	129.00
Transmission Shift Rail Bushing (in case)	M718	2.55
Transmission Shift Bushing (on shaft @ shifter)	M715B	2.95
Vacuum Modulator- C3 Auto Trans	M750M	26.00



**Scorpio Exhaust Components-** Scorpio exhaust system components are generally both expensive and difficult to have reproduced by the local muffler shop. The center section with all its close proximity twists and bends makes for some real aggravation. BAT can supply original quality replacement exhaust parts at very attractive pricing. Center sections are one piece and include the main muffler, connecting from the catalytic converter to rear resonator. Rear sections are standard type rear (can) resonator.

<b>Scorpio Center Muffler Section</b>	<b>G522</b>	<b>\$149.00</b>
<b>Scorpio Rear Resonator Section</b>	<b>G522T</b>	<b>\$90.00</b>
<b>Exhaust Hanger (each)</b>	<b>C522H</b>	<b>5.95</b>



tibbe key  
(after 8/87)chubb key  
(up to 8/24/87)

**Scorpio Keys-** Scorpio's came equipped with two types of keys. The early (before 8/24/87) "chubb" type key and the later (after 8/87) "tibbe" type key. The easiest way of differentiating the two is the early "chubb" key has a round nose tip and the later "tibbie" has a chisel flat tip, they are pictured above for comparison. We can supply either "chubb" or "tibbe" replacement key blanks (uncut) or you can purchase a complete car lock set (see below).

<b>Scorpio Key Blank (chubb) pre 8/24/87</b>	<b>G309KE</b>	<b>7.50</b>
<b>Scorpio Key Blank (tibbe) after 8/87</b>	<b>G309K</b>	<b>7.50</b>



**Scorpio Lock Sets-** Lost or broken keys, theft damage, unsure of your key code or don't have the time to wait for custom keys to be made, whatever the reason the complete lock set is the answer. We can supply a full set of locks and keys (2) door, (1) ignition, (1) hatch with matching late type "tibbe" (3) keys. A new lock set will restore both function and security to your Scorpio.

<b>Complete Lock Set w/keys -Scorpio</b>	<b>G309LS</b>	<b>98.50</b>
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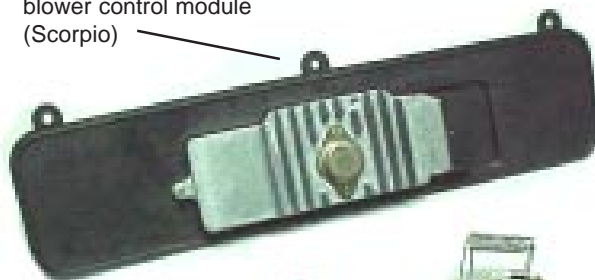
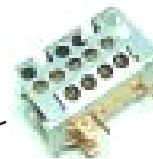
**Cosworth ECU Cover-** Fits above glove box and covers over the storage cubbie. Embossed R/S logo, grain and finish match stock dash pad. Can be painted with vinyl paint to desired color (supplied in black).

<b>Coscorth R/S ECU Cover</b>	<b>M324</b>	<b>79.00</b>
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**Air Door Components-** There are two common replacement items associated with the function of the fresh air door on the XR4. These are the Air Door Valve and Vacuum Reservoir located near the battery. The HVAC system allows the choice of recirculating inside air or bringing in exterior air which is regulated by the air door. The door is vacuum operated, controlled by a valve, and usually defaults open. If you are experiencing cold air intrusion all the time it is usually the valve which operates the door. If after a period of time the door creeps open or is intermittent with engine speed check the reservoir tank or the hoses for vacuum leaks.

<b>Air Door Valve</b>	<b>M470V</b>	<b>40.00</b>
<b>Vacuum Reservoir</b>	<b>M470VR</b>	<b>14.00</b>

blower control module  
(Scorpio)blower motor resistor  
(Scorpio)blower motor resistor  
(XR)

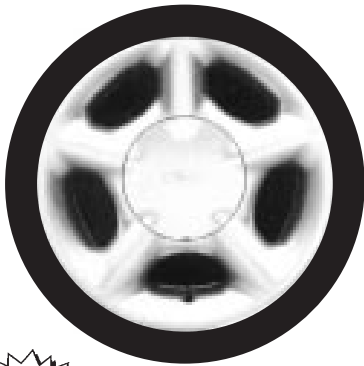
**Fan Speed Controls-** If the HVAC fan is only functioning at one speed it likely that the fan/blower motor resistor has failed. The XR4 uses a simple and cheap resistor unit that plugs in near the lid of the air box. The Scorpio uses one of two types. The first is similar to the one used on the XR and the other is a more elaborate and expensive electronic module. Check what type you have before ordering.

<b>Blower Motor Resistor- XR</b>	<b>M470BR</b>	<b>39.00</b>
<b>Blower Motor Resistor- Scorpio</b>	<b>G470BR</b>	<b>39.00</b>
<b>Blower Control Module- Scorpio</b>	<b>G470BM</b>	<b>202.50</b>



**XR Rear Lens Kits Clear & Tinted**- These are all the styling rage on newer vehicles and now you can get a set for your XR too. Available in either clear or smoke/tint these light kits not only look great, but are the perfect choice for worn out stock rear lamps (which cost about the same). Lamp kits are supplied with left and right rear lamps (your choice of clear or tinted lens), colored bulbs, reflector strips and rear gaskets.

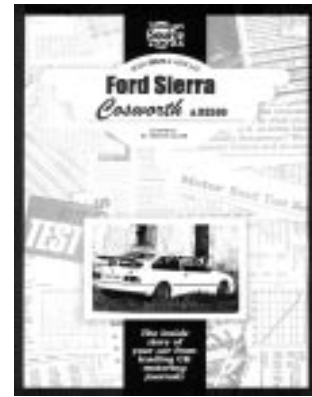
<b>Rear Lamp Kit XR (clear)</b>	<b>M319C</b>	<b>\$169.00</b>
<b>Rear Lamp Kit XR (smoke tint)</b>	<b>M319T</b>	<b>\$159.00</b>



Cosworth style wheels  
available in 15 x 6, 16 x 6.5 & 16 x 7" sizes  
\$205.00 each (XR fitments only)



6-spoke R/S wheels 15 x 7" & 16 x 7"  
\$209.00 each (XR & Scorpio fitments)



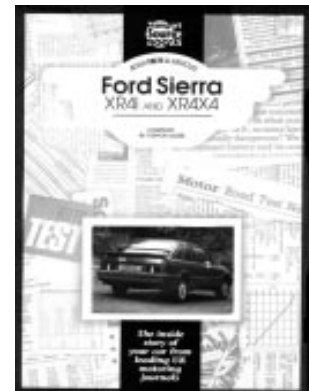
**Book- Ford Sierra Cosworth & RS500**- A compilation of European magazine road tests and articles on the Sierra Cosworth and R/S 500 cars. Again more great reading. Soft bound 8 1/2" x 11", 100 pages, b/w photos & illustrations.

<b>Ford Sierra Cosworth &amp; RS500</b>	<b>M211</b>	<b>\$18.95</b>
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**Book- The Complete 2.3 EEC-IV Handbook**- by Allan Slocum. A comprehensive view of the engineering, performance characteristics, and troubleshooting for each component of the EEC-IV engine control system. Updated 2000 issue with even more content than before !

<b>The Complete 2.3 EEC-IV Handbook</b>	<b>M209</b>	<b>\$13.00</b>
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**Book- Ford Sierra XR4i & XR 4x4** - A compilation of European magazine road tests and articles on the Sierra XR4i and XR 4x4 cars. Again more great reading. Soft bound 8 1/2" x 11", 100 pages, b/w photos & illustrations.

<b>Ford Sierra XR4i &amp; XR 4x4</b>	<b>M210</b>	<b>\$18.95</b>
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# Terms of Business

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## **Hours of Operation**

Order desk hours are Monday through Friday 9:00 a.m. until 5:00 p.m. Eastern Time. Whenever possible orders received before 12:00 noon will be processed and shipped the same day. If anyone would like to visit our location we would like to request that you please make an appointment before dropping by. We enjoy seeing our customers, discussing their cars, and showing them our latest developments, however, some days or times of day are better for us to give the attention we like to offer.

## **Ordering Procedure**

You may place an order by telephone, fax, or by mail. Ordering by telephone will connect you to a technical-sales advisor who will help with any questions, or make ordering recommendations, if you require. Knowing your 6 digit BAT customer number, catalog part numbers, quantities, and description of order items will help minimize any possible errors in processing your order. Telephone orders may be placed during business hours as listed above. Fax orders may be placed anytime day or night.

## **Payment**

Payment may be made by Visa, Master Card, Amex, Money Order or Personal Check. Orders which have been paid for by Personal Check will be shipped only after the check has cleared (allow up to 14 days). Orders accompanied by Personal Checks that have been bank certified will be shipped with out delay. We have no objections to shipping on a COD basis if required, however, all COD's must be paid upon delivery with money order or certified check. When ordering by mail or fax by Visa or Master Card be sure to include your card number and expiration date. Residents of countries outside the United States must prepay for their goods in U.S. currency. All prices for goods shipped outside the continental United States are quoted FOB Sarasota, FL. All shipping/duty charges must be the responsibility of the consignee at rates applicable to that particular country.

## **Shipping**

Unless otherwise stated all orders will be shipped by United Parcel Service (UPS) surface system. Actual UPS rates are charged based on package weight, zone (distance traveled from source) and insured value. We do **NOT** charge additional "handling" fees. We can also offer express (overnight, 2 day or 3 day) service if required, check with us for details and additional charges. Items too large or heavy for UPS service will be shipped common carrier (truck) freight collect. Optional shipping services include Surface Mail, Air Mail, and Air Freight at current rates.

## **Back Orders**

We dislike back orders as much as you do, and although we carry a huge inventory of merchandise it is inevitable that we will sometimes run out of certain items. In this case we will hold the order open and ship the back ordered item directly when the item becomes available. We **NEVER** charge for back order items until they actually ship. If an item looks like it will be on back order for longer than 4 weeks we will try and let you know the approximate time of delivery. You will then have the opportunity to reconfirm or cancel your order.

## **Privacy & Security**

Your personal information is used/maintained to facilitate the services you request and provide you with a smooth, efficient service. As a matter of policy, personal data is strictly used for internal purposes only. BAT treats personal data as an asset that must be protected against loss and unauthorized access. Our main computer network is **NOT** connected to any outside source and we employ many different security techniques to protect all data from unauthorized access.

## **Special Orders**

Some items that we offer are available as special orders. This includes custom variations on catalog items and race prepared parts. All special order items require a 50% deposit at the time the order is placed with the balance due at time of shipping. You will be advised at the time of your order if any item falls into this category.

## **Returns**

All returns must be authorized by BAT with in **30 days** of the invoice date and must be sent prepaid. Returns must have an authorized RGA number and be accompanied by a copy of the original invoice. A restocking charge of 20% may be assessed at our discretion depending on the reason for the return. Certain parts such as bearings, books, electrical items and piston rings or any part that has been modified or installed in any way are not returnable. Return items totaling less than \$20.00 can be returned for store credit only.

## **Warranties**

All parts are covered only by the manufacturers warranties and/or guarantees. BAT Inc. can assume no responsibility or liability for use or application by the user. Claims for goods damaged in transit are the responsibility of the carrier. You should always examine the contents of your package and notify the carrier immediately if there is any sign damage.

### **- Important Notice -**

Some of the equipment in this catalog is intended for racing or off-highway use in the United States. BAT Inc. ships all over the world so we must make it the responsibility of the customer to check the legality of fitting any part to his/her car. There are many different State, Federal and provincial regulations governing the replacement of automotive parts and BAT assumes no responsibility or liability for their illegal use. Please check the regulations in your area before ordering.