

# TECHNICAL BULLETIN

## FORD FALCON BA & BF

### PAINT DELAMINATING FAULT

JUNE 2011

- Ford Australia has noted that a manufacturing fault during the application of electro coat primers has resulted in the paint top coat film delaminating from the primer surface
- The available information indicates that the paint quality issue affects models ranging from BA to BF series, body variances from sedans, commercials and Fairmont equipment level
- Ford Australia has been managing these paint warranty claims throughout its Ford dealerships. Ford has also appointed the AARN body repairer network to carry out the re painting of warranty claims



- Information sourced indicates that paint delimitation is not contained within a specific area or panel of the vehicles
- Motor vehicle assessors should be aware of this paint warranty issue when conducting Quality Assurance inspection

**PLEASE CONTACT THE IAG RESEARCH CENTRE FOR ANY FURTHER ASSISTANCE ON (02) 9292 6840**

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# TECHNICAL BULLETIN

## FORD FALCON BA & BF REPLACEMENT LAMPS FROM MOTORCRAFT

OCTOBER 2010

Ford has launched a line of replacement headlamps and tail lamps under the Motorcraft brand through Ford dealers.

These parts are available for BA1, BA2, and BF1 series Falcon, Futura, Fairmont, Fairlane and LTD.

The country of origin is Taiwan. The list prices of these parts are up to \$100 lower than Ford-branded parts.

Motorcraft parts are likely to be fitted by repairers and may be encountered during quality audits.

The Motorcraft brand is owned by Ford Motor Company, so these parts can be considered acceptable OEM-approved replacements.

Ford has confirmed that the Motorcraft parts differ significantly in design and quality from aftermarket non-genuine headlamps and tail lamps currently available from independent importers, in details such as: lens material specification and coating, reflector design and coating, reflector adjustment, and body material specification.

Each of the Motorcraft parts has been approved by Ford engineering, and has passed a rigorous testing / validation process which covers more than 60 test procedures such as: Vehicle signal durability and illumination, thermal shock, moisture, water spray, and humidity tests.

When installing Motorcraft Headlamps to a BA built prior to 09/06, it may be necessary to use a Park lamp socket (P/N BAF13411A) and "Jumper Harness" (P/N BAF13007A) to connect the new headlamp to the vehicles wiring harness.

For further information, please call the IAG Research Centre on (02) 9292 6840.



# TECHNICAL BULLETIN

## FORD FALCON BA & BF

### CRASH SENSOR BRACKET

MARCH 2008

This technical bulletin has been produced to assist motor assessors and repairers when estimating or carrying out repairs on Ford Falcon BA series and BF series.

The radiator support top lock panel has been designed and fitted with a crash sensor bracket. This bracket is positioned at the centre of the top lock panel and Ford refers to it as a “towel rail panel”. The Falcon body repair manual indicates that the crash sensor bracket *must not be straightened or panel beaten* after it has been involved in a frontal collision and has sustained any form of impact damage.

This bracket is critical for the correct function of the crash severity sensor, which is positioned behind the crash sensor bracket. The crash severity sensor performance is critical to the correct deployment of the front airbags in a frontal collision.

The bracket is listed as an individual part, (Part No. BA14B058A, List Price \$28.05 + GST) or it is also available with the complete radiator support panel assembly (Part No BAFF10922A, List Price \$249.00 + GST).



If you have any further enquiries please contact the IAG Research Centre on (02) 92926840, or ext 26840.

# TECHNICAL BULLETIN

## FORD FALCON BA & BF

### HEADLAMP WIRING UPGRADE

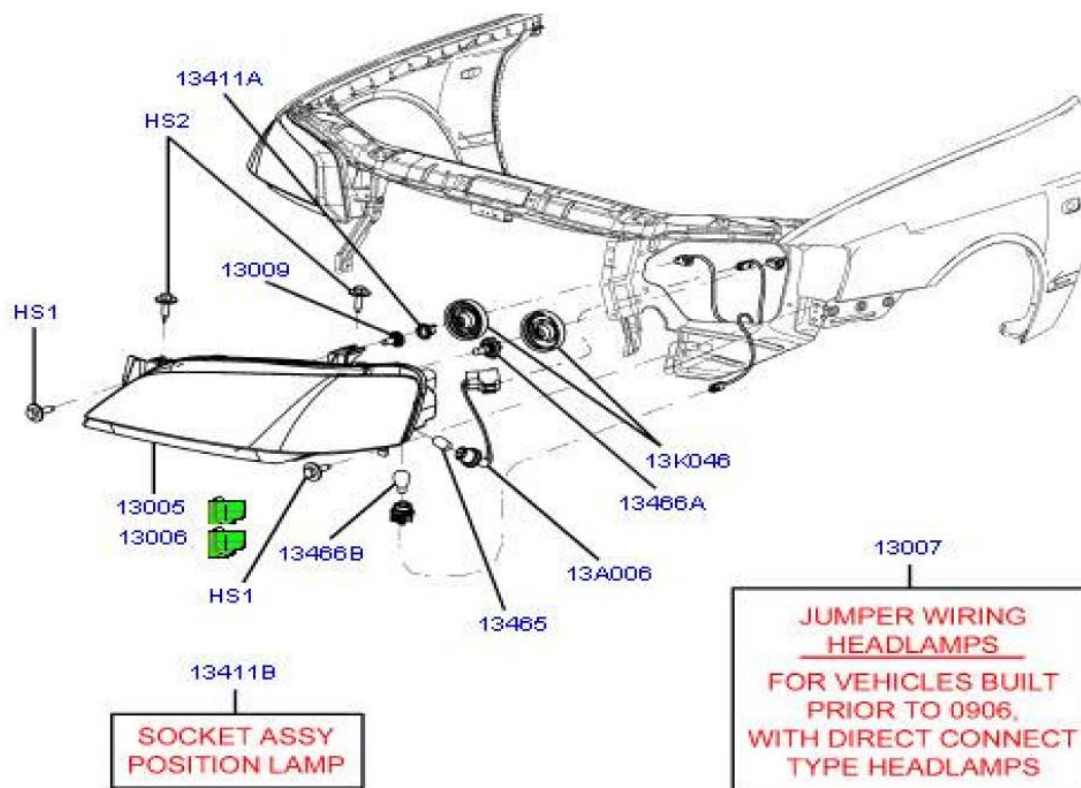
FEBRUARY 2008

This technical bulletin has been produced to assist motor assessors and repairers when replacing one or more headlamp assemblies on Ford Falcon BA series 1, BA series 2 and BF series 1.

The particular models which require the wiring connection upgrades run from build date 01/07/2002 through to build date 19/09/2006.

The diagram below shows the parts catalogue diagram describing the bridging wiring connector. The wiring connectors enable the existing wiring in vehicle to match the new headlamp assembly socket.

The part number for the wiring connector is BAF13007A and the list price is \$13.80 per headlamp.



If you have any further enquiries please contact the IAG Research Centre on (02) 92926840, or internally on ext 26840.

**ACKNOWLEDGEMENTS: LINE DRAWING SUPPLIED BY FORD MOTOR COMPANY AUSTRALIA**

# TECHNICAL BULLETIN

## FORD FALCON BA/BF AND TERRITORY SX/SY CROSSMEMBER BOLTS

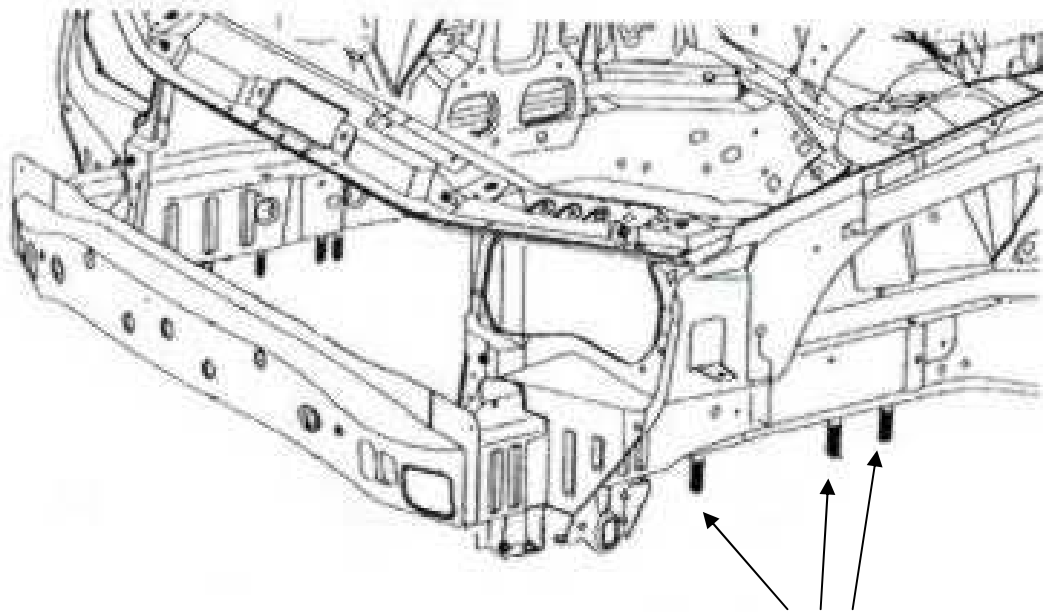
FEBRUARY 2007

The bolts retaining the front cross member to the chassis rails on BA/BF Falcon and SX/SY Territory are available from Ford Australia.

These bolts were made available for Falcon following a request from the Research Centre. They can be bent in front impacts due to their considerable length which is a requirement of production during assembly of the vehicle.

Investigative work by the Research Centre revealed that the Falcon cross member bolts are interchangeable with Territory. The part number for the bolt is W706568S300 and the list price \$3.40. The nut is also available, part number W705291S309, list price \$2.60.

The diagram below illustrates the bolts.



Cross member bolts.

Should you have any further enquiries, please contact the IAG Research Centre Help Desk on 02 9292-6840 or internally on 26840.

# TECHNICAL BULLETIN

## FORD FALCON BA/BF AND TERRITORY SX/SY COOLING SYSTEMS

JULY 2006

The following information has been taken from a Ford service bulletin and relates to the cooling systems on BA, BAII, BF Falcons and SX, SY Territorys.

Ford has released a pre-mix radiator coolant. The new coolant, R1 135 is a mixture of their old coolant, R133 and de-ionised water. It was developed to increase the life span of the cooling system components.

This is available in 3 sizes. The tables below shows part numbers, quantities and list prices:

Part No.	Quantity	List Price
R1 135	1 Litre	\$10.44
	5 Litre	\$35 40
	20 Litre	\$104.10

Note - Ford do not recommend the use of tap water to top up the system.

The total capacity for these models is 10.3 litres which includes the coolant in the engine block etc.

Should you have any further enquiries, please feel free to contact IAG Research on 02 9292-6840 or internally 26840.



# TECHNICAL BULLETIN

## FORD FALCON BF

### CHROMAFLAIR® COLOUR OPTION

MAY 2006

In October of 2005 Ford released the BF Falcon and made available the option of a ChromaFlair® colour called Fantasy on the XR and FPV variants.

**What is a ChromaFlair® colour?** ChromaFlair® colours are created by the interference of light passing into the paint coats and reacting through reflection and refraction from the panel surface. Suspended within the paint are aluminium flakes approximately 1 micron thick coated with glass-like magnesium fluoride embedded in semi-translucent chrome. The aluminium and chrome give the paint a high sparkle effect while the glass-like magnesium acts as a reflecting prism giving the appearance of the colour changing when viewed from different angles. There are no actual pigments in ChromaFlair® paints. The colours are achieved by the reflecting prisms within the material.

Whilst these colours are technically regarded as 2 layer finishes i.e. clear over base, the colour of the primer will have an effect on the appearance of the finish.

ChromaFlair® colours have been available for some time. Primarily they have been used for the aftermarket performance car market. Ford is the first manufacturer to make them available as an OEM (original equipment manufacturer) option.

ChromaFlair® colours can be blended and it is critical that the painter matches the colour to opacity. This is achieved by duplicating the number of coats from OEM. To accomplish this, the painter needs a number of spray out cards applying one coat to one, two coats to a second, three coats to a third and so on. Clear is applied, allowed to dry and the card with the appropriate number of coats identified.

The costing of this material is approximately \$850 per litre pushing it outside the scope of our current paint allowances. In these instances it is recommended assessing staff contact the Research Centre for further advice.

If you have any further enquiries, please feel free to contact IAG Research Centre on 02 9292-6840 or internally 26840.

# TECHNICAL BULLETIN

## FORD FALCON BA

### BUILD AND COMPLIANCE LABELS

MAY 2003

Many assessors will be aware of the build and compliance labels located on the right hand front skirt suspension tower on BA series Fords. Numerous enquiries have been directed to the Research Centre regarding their replacement in the event of crash repairs to this area of the vehicle.

It is important to note that the labels self – void when removed and therefore are unable to be reused.

We met with Ford to discuss relocating the label and supplying it as a spare part. Ford are currently looking at alternative locations that meet their production line and OH&S requirements.

In regard to supplying the stickers, Ford has advised that it is in breach of company policy to reprint the labels and make them available as a spare part.

Assessors should advise repairers of the problem, suggesting not to remove the labels unless necessary and make all efforts possible to repair the car without replacing the RH suspension tower. Consideration should be given to potential disputes arising over loss of vehicle value if the car is returned to the owner without the compliance label fitted. If customers are concerned about panels being replaced, they should be advised of Ford's policy and reassured that the labels are not the vehicle's identifiers and are not required for registration.

If there are any further queries please feel free to contact the IAG Research Centre on 9292-6840.

Compliance label



Identification label



# TECHNICAL BULLETIN

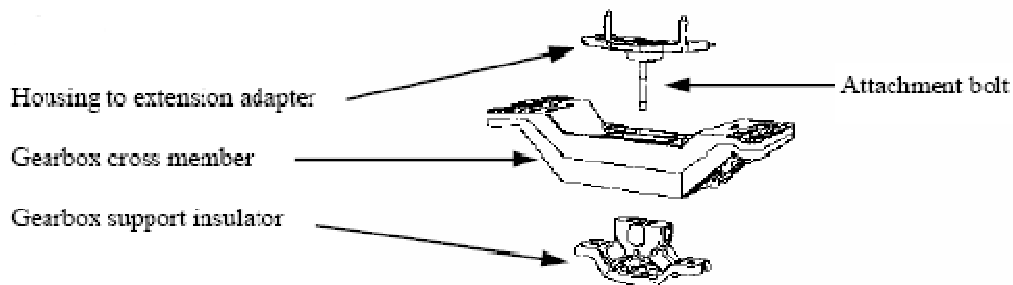
## FORD FALCON BA

### TRANSMISSION SUPPORT FAILURE

DECEMBER 2002

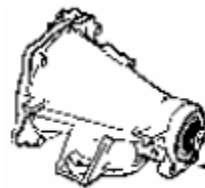
As a result of 2 Low Speed Crash Tests and a transmission-locking test on Ford Falcon BA with automatic transmission, the IAG Research Centre has vital information regarding damage to the rear gearbox cross member.

In both Low Speed Crash Tests, which are equivalent to the common nose to tail collision at 25 km/h and one bump test, damage occurred to some or all of the following components.



\*NOTE; The attachment bolt can only be purchased with the housing to extension adapter.

It seems that soft engine mountings allow increased movement of the engine during impact causing the failure of the above-mentioned components.



In one case damage occurred to the transmission extension housing.

The effected area is at the rear of the housing adjacent to the tail shaft.

The photos below and over the page show the damaged that may be expected.



Gearbox cross member



Gearbox support insulator



Housing to extension adaptor



Attachment bolt



Gearbox extension housing

In instances where the gearbox extension housing has broken, the tail shaft will need to be removed and rebalanced as part of the installation procedure.

Therefore it is advised that damage to this extent should be sublet to a Ford dealer.

Ford has advised that an approximate sublet allowance of 2.50 hours should be considered for this operation. When the damage is more moderate, i.e. the gearbox extension housing is intact, smash repairers should be capable of performing the work themselves. The table below gives list prices and recommended remove and replace allowances for the components Gearbox Extension Housing affected in those instances.

For any further information please contact the IAG Research Centre on (02) 9292 6840