



Circulate to	Service Manager	Parts Manager	Foreman	Receptionist	Technicians		
	X	X	X				

**NOTE: TSB 04R/06 SUPERCEDES TSB 78/04 – PLEASE DESTROY ALL COPIES OF TSB 78/04. THIS BULLETIN HAS BEEN RE-RELEASED TO INCORPORATE BF FALCON VARIANTS.**

**Subject/Concern:** POWER STEERING GEARS KNOCKS, CLUNKS, CREAK, CLICKING ETC...

**Models:** All BA & BF Vehicles

**Summary**

**Cause:** Knocking / Noisy Steering Gears. (Knocks, Clunks, Graunch, Clicking, etc...).

**Action:** Follow this TSB to correct the above concern without the need to replace the steering gear.

**Warranty Status:** Reimbursable within the provisions of the Warranty and Policy Manual.

**Parts Required**

Description	Part Number	Quantity
90° Countersink 3 Flute Cutting Tool (AE Baker / Blackwood's Part No. 01175132)	Dealer Supply	1
0.20mm Stainless Steel Washer	BA3S639A	1 Off

**Service Procedure**

**RE-ISSUE – PLEASE DESTROY ALL PREVIOUS COPIES OF TSB 04/06**

*This TSB has been re-released as there has been a change to the warranty claim details.*

**Concern Description:**

Approximately 80% of steering gears (racks) replaced under warranty for the above concerns have been analyzed, tested and found to be No Fault Found (NFF).

The following procedure will assist Technicians to determine whether the steering gear (rack) is faulty.

**Prior** to replacement or repairs of the power steering gear, the following diagnosis information and/or repair procedure should be followed to determine if the power steering gear is faulty.

**Service Action:**

**KNOCKING / NOISY STEERING GEARS, (KNOCKS, CREAK, CLUNKS, GRAUNCH, CLICKING, TICKING etc...).**

Testing and analysis has shown that the main cause for the above knock type noises is dependant on the interface between the steering gear and the cross member. There are actually 2 causes and they are:

1. Steering gear surface damage.
2. Thread burr on the stud hole in the cross member.



### Step 8

Using a smooth Flat file, lightly file the front mounting face of the steering gear. (Ref to Fig 2). This is to ensure that the mounting face on the steering gear is free from any burrs and/or other marks.

### Step 9

Clean mating face on 2B Cross Member. Ensuring it is free from any oil, dirt and other contaminants. (Ref to Fig 3).

### Step 10

Fit Stainless Steel Washer on Drivers Side Mounting Stud. (Ref to Fig 5).

**NOTE :** STAINLESS STEEL WASHER ALREADY FITTED TO VEHICLES ASSEMBLED FROM 30<sup>th</sup> OF JUNE 2004.

### Step 11

Re-Fit steering gear. Ensuring that the steering gear mounting bolt nut (Ref to Fig 4) is torqued to 80Nm.

Note: To R & R Steering Gear for vehicles fitted with a V8, please refer to the BA workshop manual section 211-02 page number 211-02-24. You may also find that on an XR fitted with a V8 Engine the left hand side exhaust flange stud may have to be removed.

### Step 12

With vehicle stationary and **not** running re-check for any noises by rotating the steering wheel from side to side with the wheels pointed straight ahead.

### Step 13

If a creak, clicking, ticking, knock type noise is still present then replace the steering gear.

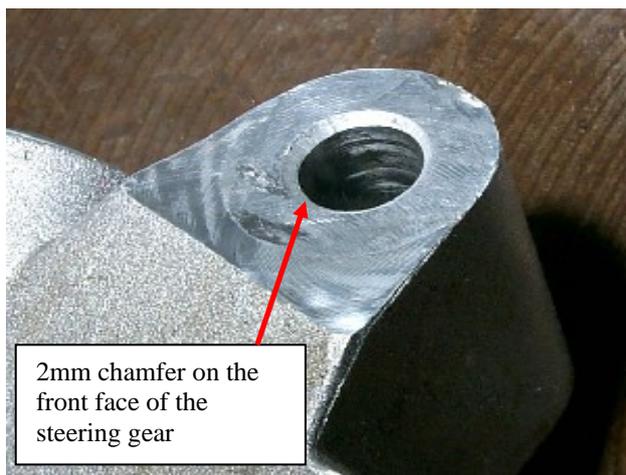


Figure 1:



Figure 2:

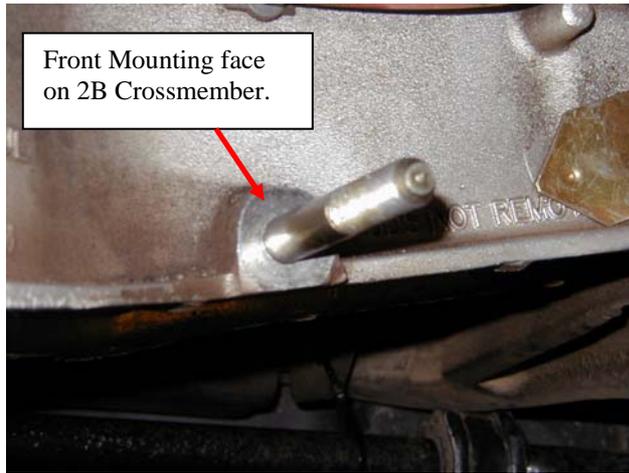


Figure 3:

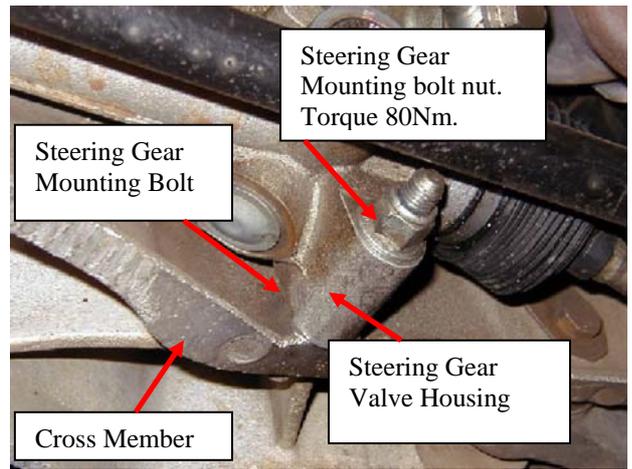


Figure 4:

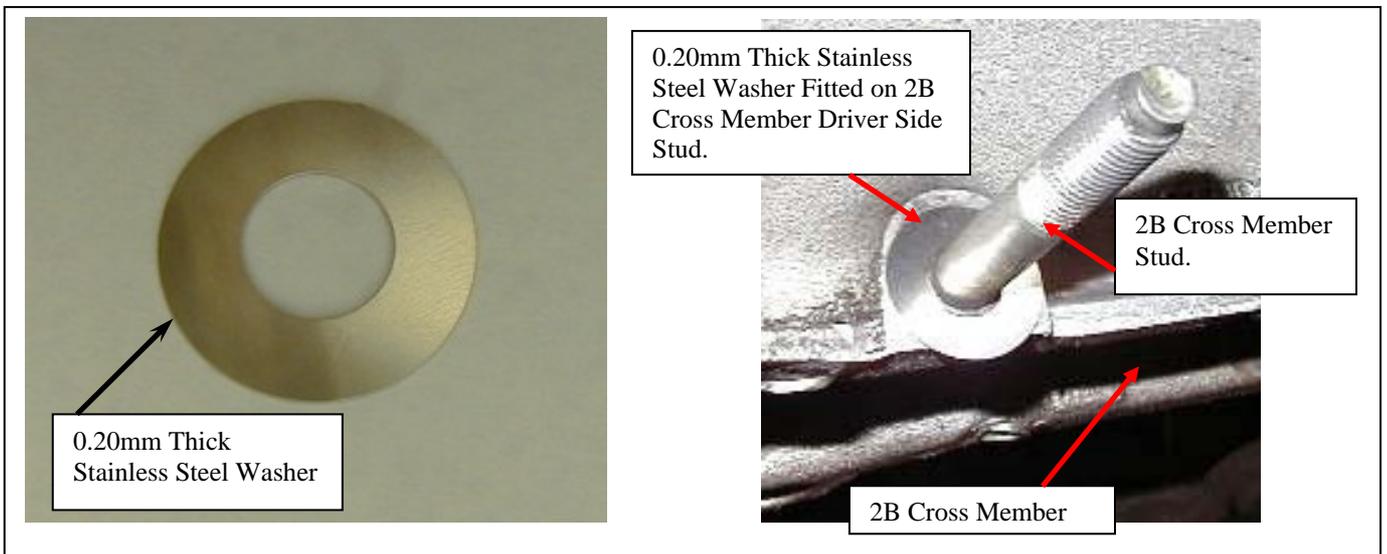


Figure 5

**Note: Claims will be scrutinized by WARPEC. No Fault Found (NFF) Claims and/or claims whereby a wheel alignment has been carried out and no before and after test results (In the claim comments area) have been submitted with the claim will be denied.**

**Operation Number/Standard Repair Time**

Operation Description	Operation Number	Time
R & R Steering Gear (Manual Gearbox 6 & V8 Cylinder Engine)	TSB 07804	1.00
R & R Steering Gear (Automatic Gearbox 6 & V8 Cylinder Engine)	TSB 07804	1.00
Front Toe-in correct ( <b>NOTE: Before and after results must be entered with claim.</b> )	3001A6F	0.20
2.0mm x 45° Chamfer on Steering Gear Housing, Clean, and carry out Hardware and Associated Parts Checks.	TSB 07804	0.40
Road Test (Max. Claimable Allowance)	1000A	0.30

Repair/Claim Coding

Warranty Claim	Causal Part	Condition
Enter 00406 in box "X" of warranty claim to reference this TSB		
Fairmont Ghia, V8 Engines, Fairlane, Fairlane Ghia, and 17" Alloys.	BA3504B	57 Knocks
All others.	BA3504A	57 Knocks

WARPEC

Ford Customer Service Division