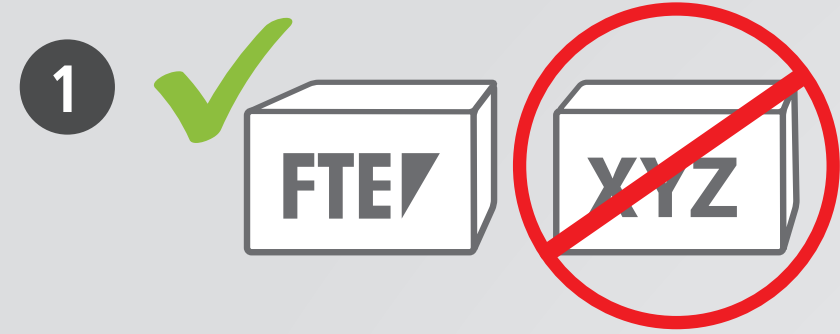


# HYDRAULIC SYSTEMS

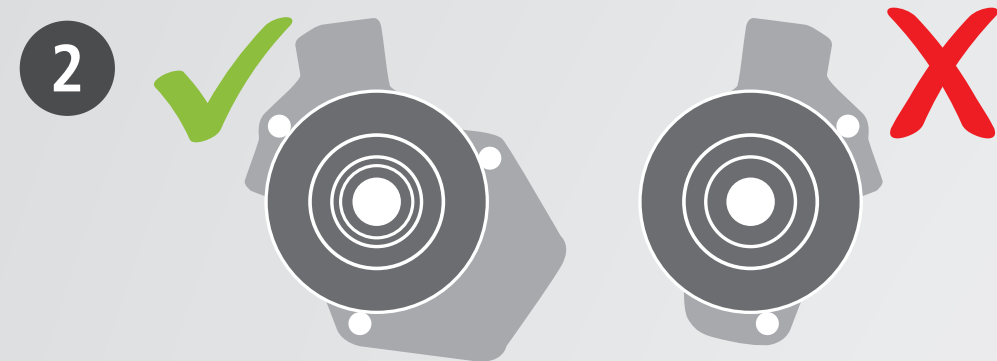
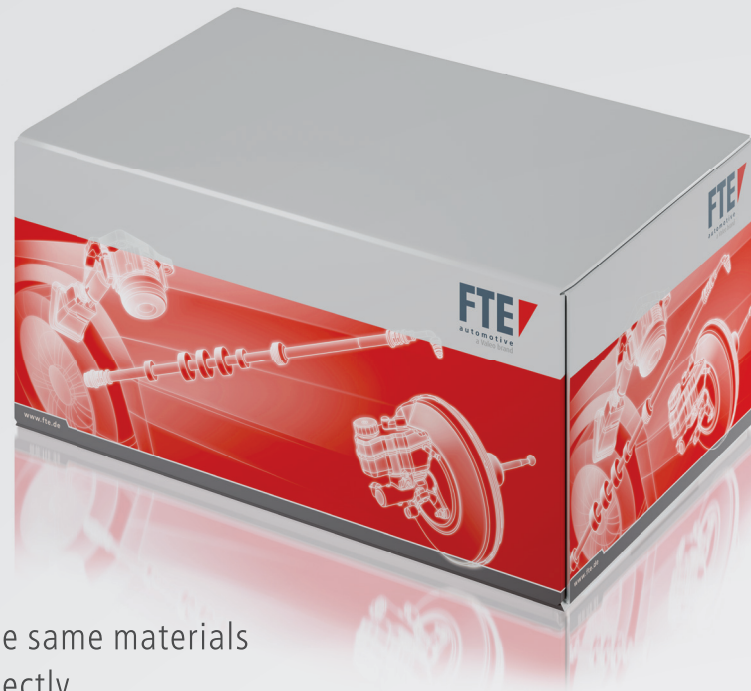
## INSTALLATION INSTRUCTIONS. 10 STEP CLUTCH RELEASE BEARING & SLAVE CYLINDER ASSEMBLY FITTING

### CHOOSING THE CORRECT PARTS



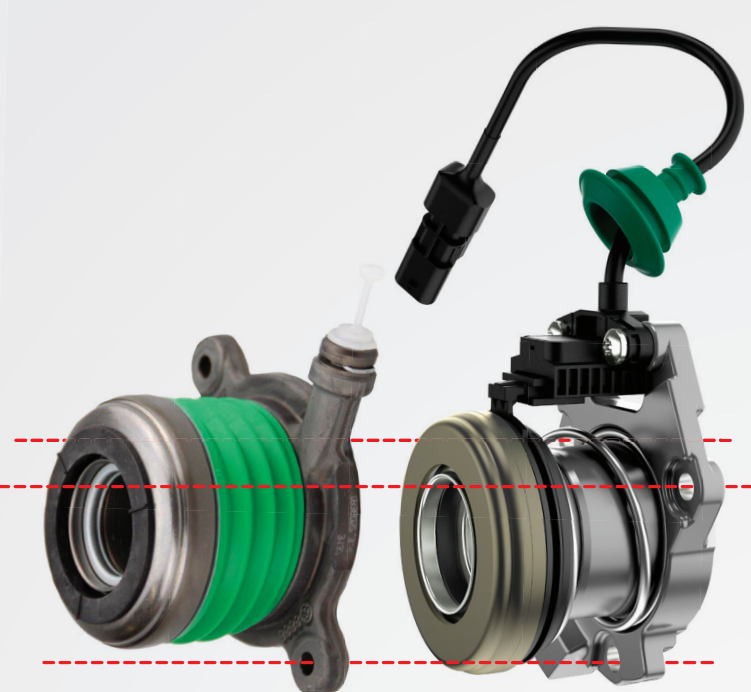
**Guideline**  
Always use FTE Original Equipment replacement parts.

**Potential Consequence**  
Copy parts do not have the same exact specifications and are not made of the same materials as Original Equipment. Copy parts can fail prematurely or not function correctly.



**Guideline**  
Ensure that you have the correct part by comparing the new replacement part to the old part removed from the vehicle.

**Potential Consequence**  
Clutch system will not function.



### PRIOR TO FITTING THE CLUTCH RELEASE BEARING & SLAVE CYLINDER ASSEMBLY



**Guideline**  
Ensure that the contact surfaces of the bell housing are clean and that there is no dirt or grease present. Do not use brake cleaner as a cleaning agent.

**Potential Consequence**  
Dirt present will result in unlevelled mounting causing:  
- Contamination by gearbox oil resulting in swelling of clutch release bearing & slave cylinder assembly's internal seals and failure  
- Clutch release bearing & slave cylinder assembly's sleeve to move backwards resulting in leakage of hydraulic fluid



**Guideline**  
Do not compress the clutch release bearing & slave cylinder assembly prior to fitting.

**Potential Consequence**  
Clutch release bearing and slave cylinder assembly's internal seal losing integrity resulting in leakage of hydraulic fluid.



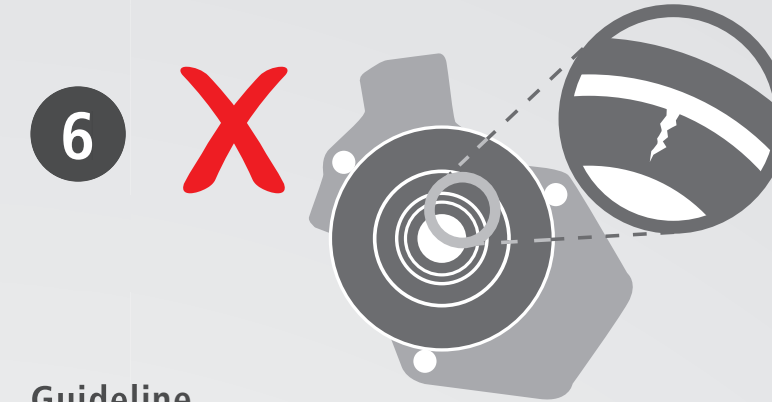
damage caused



**Guideline**  
Ensure that the connections to the hydraulic system are good.

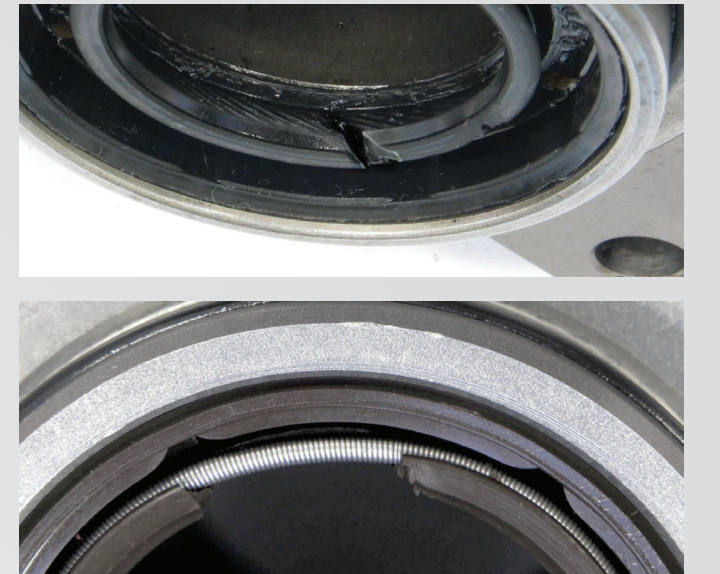
**Potential Consequence**  
Bad connections cause leakage resulting in inability to bleed the hydraulic system and non-functioning clutch release bearing & slave cylinder assembly.

### FITTING THE CLUTCH RELEASE BEARING & SLAVE CYLINDER ASSEMBLY

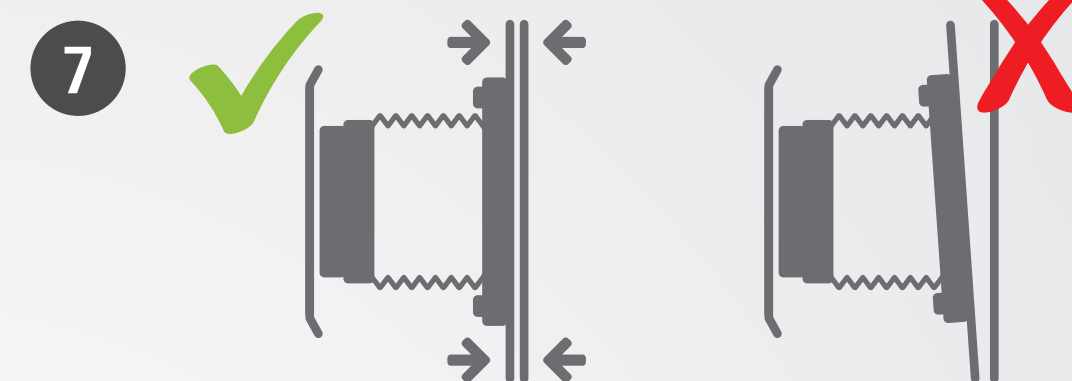


**Guideline**  
Ensure that the external seal of the clutch release bearing & slave cylinder assembly (where present) is not damaged when it is moved over the gearbox input shaft.

**Potential Consequence**  
Gearbox oil will leak past the external seal resulting in swelling of clutch release bearing & slave cylinder assembly's internal seals and failure.

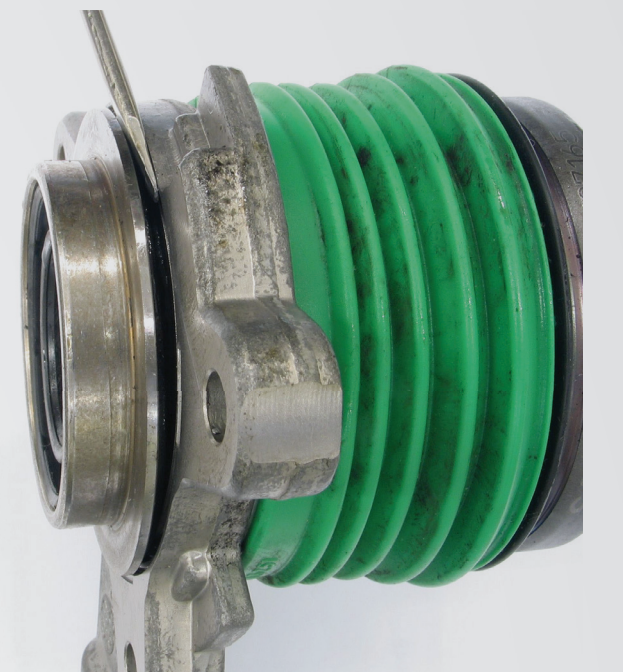


damage caused



**Guideline**  
Ensure that the clutch release bearing & slave cylinder assembly mounting surface is flat with the gearbox receiving surface. Ensure that the bolts are "finger tight" before tightening to the correct torque as specified by the vehicle manufacturer.

**Potential Consequence**  
Unlevelled mounting, causing clutch release bearing & slave cylinder assembly's sleeve to move backwards resulting in leakage of hydraulic fluid and failure.



damage caused



**Guideline**  
Ensure that the clutch plate is mounted the correct way round to the vehicle manufacturers specifications.

**Potential Consequence**  
Clutch release bearing & slave cylinder assembly's sleeve will foul on the clutch plate spline causing failure.



damage caused

### BLEEDING THE SYSTEM



**Guideline**  
Prior to bleeding ensure that only the fluid specified by the car manufacturers is used to top up the reservoir. **Warning:** Ensure that no contaminants have or are able to enter the hydraulic system. **Warning:** Only use a totally clean funnel or other dispenser in the top up process.

**Potential Consequence**  
Incorrect fluid or contaminants cause internal seals to swell and clutch release bearing & slave cylinder assembly failure..



damage caused



**Guideline**  
Follow the car manufacturers recommended bleeding instructions and use recommended bleeding devices. **Warning:** Do not bleed manually while using bleeding devices. **Warning:** If bleeding manually do not pump up the system by repeatedly depressing the clutch over a short period of time.

**Potential Consequence**  
Over-stroke results in the clutch release bearing & slave cylinder assembly leaking hydraulic fluid or bursting.



damage caused

