

# Fitting Instructions #3940IS

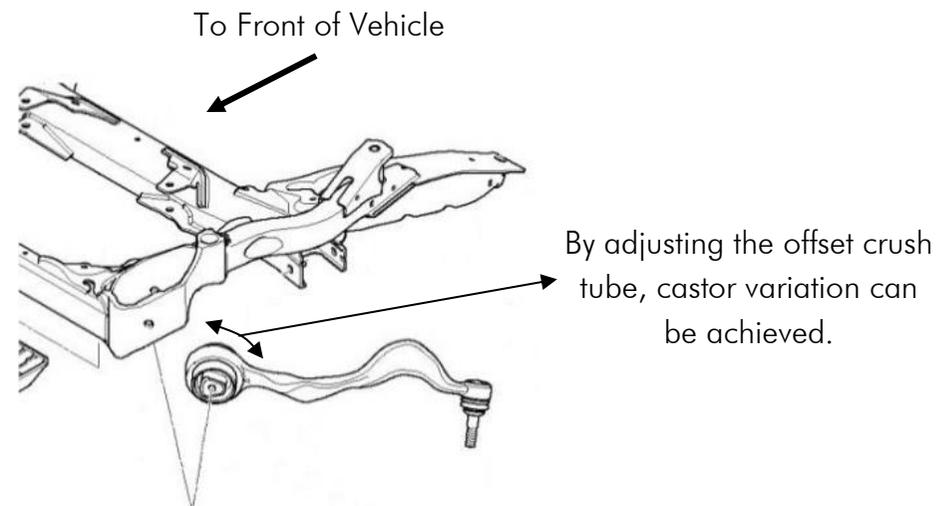
BMW 1 SERIES E81, E82, E87 & E88 / BMW 3 SERIES E90, E91, E92 & E93

## Radius Arm to Chassis Bushing (Front)

**Note:** Polyurethane bushes must be fitted to both sides of the vehicle.

- Wheel align the vehicle before the job is started and note castor settings;
- Support vehicle on jack stands/hoist, mark left and right hand arm and then, remove the radius arms from the vehicle;
- Remove original shell part from the radius arms with the use of a hydraulic press and suitable pressing tools;
- Clean housing areas to remove any old original bushing materials before installing new bushes. While imagining how the arm seats in the car, set the shorter side of the bush towards the **rear** of the vehicle. This will allow more room to adjust the offset crush tube later (See figure 2). Apply the grease supplied to the housing and the outside of the bush, and then push the new bushes in;
- Using the grease supplied, generously lubricate the outside of the steel tube, the bore of the new bush. Press the new crush tube in. loosely refit the radius arms with the new bushes into the vehicle. **Note:** The hex of the crush tube **must** sit on the shorter flange of the bush;
- **With reference to the Figure 03, adjust the new crush tube with the spanner provided, so that the hole in the bushing is positioned to give the desired castor result;**
- Tighten all bolts ensuring that you use manufacturers torque settings, wheel align vehicle and check new settings.

Left Hand Side Shown



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Left Hand Side Shown



Figure 1: SuperPro Polyurethane Bushes and Crush Tube Assembly in Arm

Left Hand Arm Shown



Figure 2: Radius arm assembly in chassis

Hex of the crush tube facing towards the rear of the vehicle

As viewed from the side of the control arm

Kit #3940K – to counteract a strong pull to the left (approx. 1 deg. change)

Double Offset – (passenger side increase and driver side decrease castor)

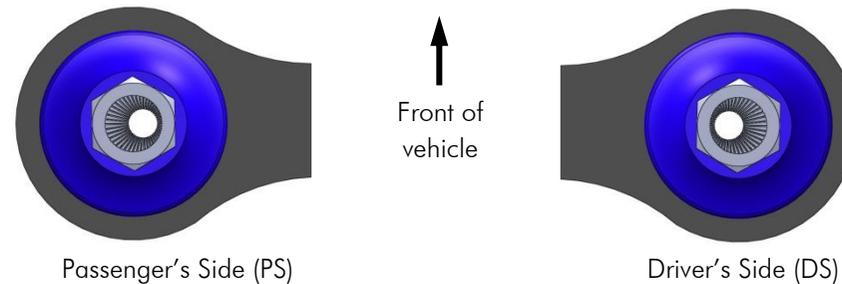


Figure 3: Illustration of Castor Settings