

Fitting Instructions #TRC6680IS

Isuzu D-Max/Mazda BT-50 2020-on

Front Steering Knuckle



Note: This is a suggested method of replacing the front steering knuckle with the suggested tools. It is recommended that a skilled mechanic or technician undertakes the procedure. ***This steering knuckle kit must be installed as a pair on both sides of the vehicle.***

1. Before beginning any alignment work, always check for loose or worn parts, correct tyre pressures, and odd tyre wear patterns. Replace any loose or worn parts before setting alignment.
2. Raise vehicle by the chassis and support with jack stands. Remove front tyre and wheel assemblies.
3. Remove the brake calliper, CV shaft nut and then the brake rotor.
4. Remove the brake line bracket, the front Swaybar link and ABS wiring.
5. Remove the tie rod outer joint from the steering knuckle.
6. Remove front upper & lower control arm split pin and loosen the nut but do not remove. This will keep the steering knuckle from falling when performing the next step.
7. Break the taper between the ball joint stud and steering knuckle and remove the ball joint from the steering knuckle. It is recommended to do the lower control arm first then followed by the upper control arm. Careful to not hit on the thread and boot.



Figure 1: Remove brake line bracket & Swaybar Link

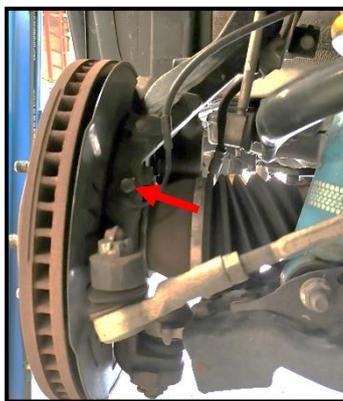


Figure 2: Remove ABS Wiring



Figure 3: Remove Tie Rod Outer Joint



Figure 4: Loosen nut but do not remove, this will keep the steering knuckle from falling.



Figure 5: Remove OE steering knuckle from the vehicle

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8. With the steering knuckle removed from the vehicle, remove wheel bearing hub assembly and brake rotor dust shield.
9. Carefully remove the axle seal from the OE steering knuckle and install it on the new steering knuckle.
10. Install the wheel bearing hub assembly and brake rotor dust shield onto the new steering knuckle.



Figure 6: Remove wheel bearing hub assembly & dust shield



Figure 7: Remove OE axle seal from OE and install on new Steering Knuckle

11. Install the new steering knuckle into the vehicle in reverse order. **Note:** Install the supplied washer onto the Swaybar link as per figure below.

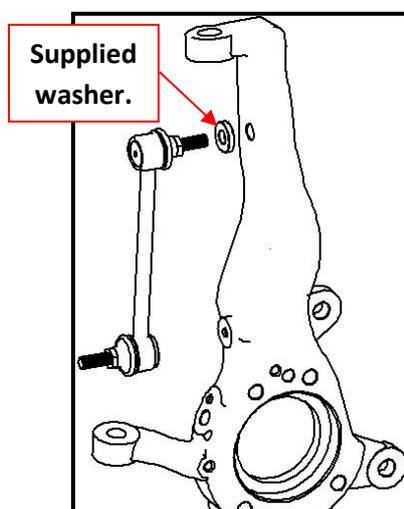


Figure 8: Supplied washer arrangement

12. Check the length of ABS and brake line cable, ensuring the cable isn't overly taught (stretched). Ensure all split pins are installed.
13. Re-install the tyre and wheel assembly. Lower vehicle and check for clearance and wheel align the vehicle. (See last page for recommended wheel alignment specs).
14. Note this steering knuckle will improve bump steer on standard height and raised vehicles of 30-50mm. Ideally, for raised vehicle it is best to pair with TRC6590 for optimum result which would significantly improve tyre wear.

Note: All mounting bolts are to be torque to manufacturer's specifications and checked after 1000km of travel.

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Recommended Wheel Alignment Specs for RHD Vehicles

	Passenger Side	Drivers Side	Split
Camber	$-0.5 \pm 0.25^{\circ}$	$-0.5 \pm 0.25^{\circ}$	$0 \pm 0.1^{\circ}$
Caster	$3.0 \pm 0.5^{\circ}$	$2.5 \pm 0.5^{\circ}$	$+0.5 \pm 0.1^{\circ}$ (Towards Pass Side)
Toe	1.5 ± 0.25 mm	1.5 ± 0.25 mm	0 ± 0.1 mm