

# 91701-CB INSTALLATION INSTRUCTIONS

PART #

00-17 5150

91701-CB

09-13 F150 4WD 2.5 VS IR COILOVER KIT W/ FABTECH 6"

DESCRIPTION

COMPONENTS INCLUDED	
(2) 194949 09-13 F150 4WD 2.5 VS IR CO KIT W/ EARTECH 6"	(1) 611019 COILOVER HARDWARE KIT (PAIR) (1) 611046 09-13 F150 LCA CO MOUNT HARDWARE (PAIR)
HARDWARE INCLUDED	
611019 HARD	DWARE KIT
(6) 605101 3/8-16 X 1.000 HHCS GR8	(6) 605131 3/8 SPLIT LOCK WASHER GR8
611046 HARD	DWARE KIT
	(4) 605530 5/8 SAE FLAT WASHER GR8 (4) 197012 09-13 F150 & RAPTOR ADAPTER LCA
TOOLS REQUIRED	
	21MM SOCKET / WRENCH 27MM SOCKET / WRENCH
TORQUE WRENCH	29MM SOCKET / WRENCH 9/16" SOCKET / WRENCH 15/16" SOCKET / WRENCH
TECH NOTES	
1. YOUR ICON COILOVER ASSEMBLIES COME FACTO NITROGEN PRESSURE MAY LEAD TO SHOCK MALFU CAUSED BY LOW NITROGEN PRESSURE IS NOT COV 2. YOUR ICON COILOVER ASSEMBLIES COME SHIPP REDUCING DROOP TRAVEL WILL REDUCE RIDE QU 4.625" OF EXPOSED THREADS BETWEEN THE BOTT NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL OCCUR TO COILOVER AND/OR VEHICLE.	UNCTION AND REDUCED RIDE QUALITY. FAILURE VERED UNDER ICON'S WARRANTY POLICY. PED AT ICON'S RECOMMENDED RIDE HEIGHT. JALITY. DO NOT PRELOAD THE COIL BEYOND TOM OF THE TOP CAP AND THE COIL ADJUSTER

# INSTALLATION

FIG.1

**1.** Using a properly rated jack, raise the front of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the front wheels.

**2**. Disconnect the outer tie rod end using a 21mm socket/wrench. Loosen the nut a few turns. Strike the end of the steering arm with a large hammer to dislodge the taper. Remove the nut and swing the tie rod out of the way. [FIGURE 1 & 2]





FIG.2

**3**. Support the lower control arm with a jack and remove the (3) nuts securing the upper shock mount to the coil bucket using a 15mm socket/wrench. Do not loosen or remove the larger center nut securing the spring seat to the shock shaft. This will result in the stock coil assembly to come apart violently, causing possible damage to components and injury. [FIGURE 3]





FIG.4

**4**. Use a 29mm socket, and a 27mm socket/wrench to remove the bolt holding the lower shock eye to the lower control arm. **[FIGURE 4]** 

**5**. Lower the jack and remove the stock coilover assembly. Due to rubber bushing stiffness you may need to pull down on the suspension to make room for removal. To make this easier you can use a pry bar over the top of the upper control arm and under the pivot bolt for additional leverage. Be careful not to damage any brake lines or wires that may be routed down the arm.

6. Install new ICON coilover assembly. Install upper mount with the charge port facing outward using three (605101) bolts and three (605131) lock washers. Tighten using a 9/16" socket/wrench. [Torque to 35 ft-lbs] [FIGURE 5]



**7**. Install lower shock mount to lower control arm: First install the adapter (197011) into the lower mount as shown. Cut the zip tie off the lower shock eye and make sure that the spacers don't fall out. Slide the lower end of the shock between the adapters (197011) and install the supplied lower (605500) bolt with (605530) washers. Tighten using a 15/16" socket/wrench. [Torque to 150 ft-lb] [FIGURE 6 & 7]

FIG.6

FIG.3



FIG.5



FIG.7

8. Reinstall the outer tie rod end using a 21mm socket/wrench [Torque to factory spec] and install cotter pin.

9. Install front wheels and lower vehicle back to the ground. [Torque to factory spec]

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

## 2.5 VS SERIES SHOCK & COILOVER TECHNICAL INFORMATION

### MAINTENANCE

ICON shock absorbers are a high quality rebuildable race style shock absorber designed for optimal performance. With a unit of this caliber on your vehicle, routine maintenance is required to keep them looking and operating in like new condition. Residual oil and assembly lube may be present at all seal paths from the factory out of the box and is considered normal. Pooling of oil however is not acceptable at any time and one should contact the iCON dealer where purchased.

#### BELOW ARE GUIDELINES BASED ON HOW YOU USE YOUR VEHICLE BUT YOUR MILEAGE MAY VARY:

#### STREET USE:

- Send in for factory servicing every 40,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Remove any buildup of road salt, mud, or debris from shocks and coil springs anytime accrued
- Clean with mild soap and water with each oil change or anytime you notice build up.
  Wax the cylinders yearly with automotive wax to prevent corrosion.
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  Check nitrogen pressure yearly. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

#### STREET/DIRT:

- Send in for factory servicing every 15,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Clean with mild soap and water with each oil change, offroad trip, or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure each dirt outing. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

#### DIRT USE:

- Send in for factory servicing every 1,000 miles.
- Check nitrogen pressure each outing. (252004 charge needle assembly available at any ICON distributor)
- Remove any buildup of mud or debris from shocks and coil springs after every outing.

# ICON VEHICLE DYNAMICS

PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS