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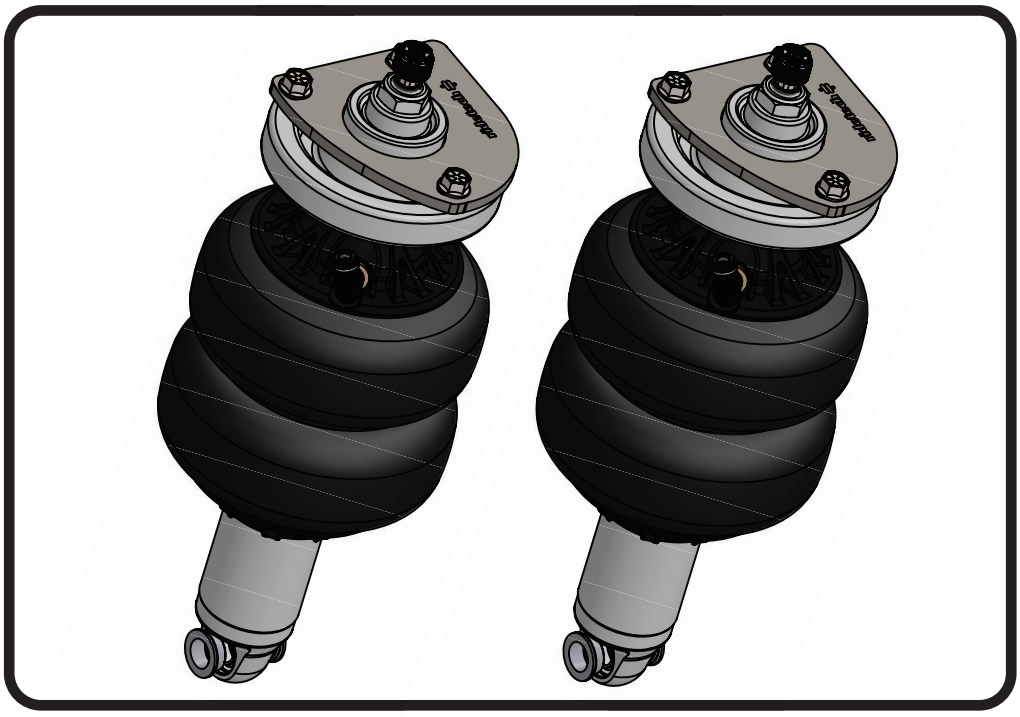
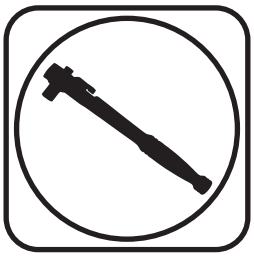
Installation Instructions

Part # 12283001 - 61-65 Ford Falcon Front HQ ShockWave for StrongArms



Recommended Tools



1961-1965 Ford Falcon HQ Series Front ShockWaves

Installation Instructions

THESE SHOCKWAVES ARE DESIGNED TO BE USED WITH RIDETECH STRONGARMS

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ShockWave Dimensions:

Center of bearing to Center of bearing:

Compressed:	10.30”
Ride Height:	12.10”
Extended:	13.30”

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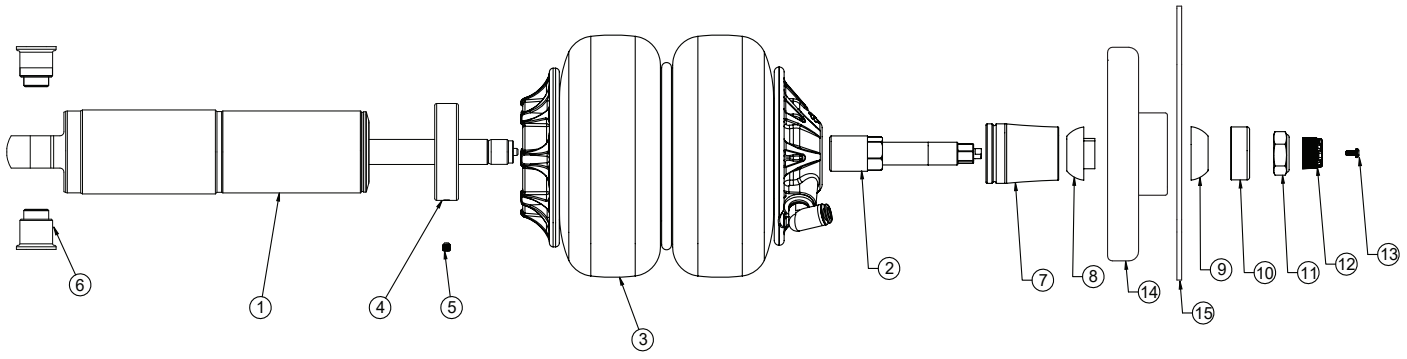
Installation Instructions

Major Components .....In the box

Item #	Part #	Description	QTY
1	982-10-803	3.6" Stroke HQ Series Shock	2
2	90009988	2" Stud Top (Installed on Shock) - Includes Adjuster Knob & Screw	2
3	24090199	1000 Series 6.5" Double Convoluted AirSpring	2
4	234-00-153	AirSpring Locking Ring (Installed on shock)	2
5	99055000	Locking Ring Set Screw (Installed on shock)	2
6	90002062	1/2" ID Bearing Spacers	4
7	90002312	2" Aluminum Stud Top Base	2
8	90001904	Bottom Delrin Ball	2
9	90001903	Top Delrin Ball	2
10	90001902	Delrin Ball Aluminum Top Cap	2
11	99562003	9/16"-18 Thin Nylok Nut	2
12	210-35-120-0	Adjuster Knob - (90009988 assembly)	2
13	90009969	#4-40 X 1/4" SS, 18-8 Pan Head Torx Cap - (90009988 assembly)	2
14	90003201	Upper ShockWave Mount	2
15	90003202	Top Cover Plate	2
	90001994	5/8" ID Bearing (installed in shock and eyelet)	4
	90001995	Bearing Snap Ring (installed in shock and eyelet)	8
	99311012	5/16" X 1" Flange Bolt	6



THE DELRIN BALL REQUIRES A 3/4" HOLE FOR THE FLANGE TO GO THROUGH. THIS CAN BE DRILLED WITH A UNIBIT.

WARNING: ATTEMPTING TO REMOVE THE AIR FITTING WILL DAMAGE IT AND VOID THE WARRANTY.

Getting Started.....

THESE SHOCKWAVES ARE DESIGNED TO BE USED WITH RIDETECH STRONGARMS!

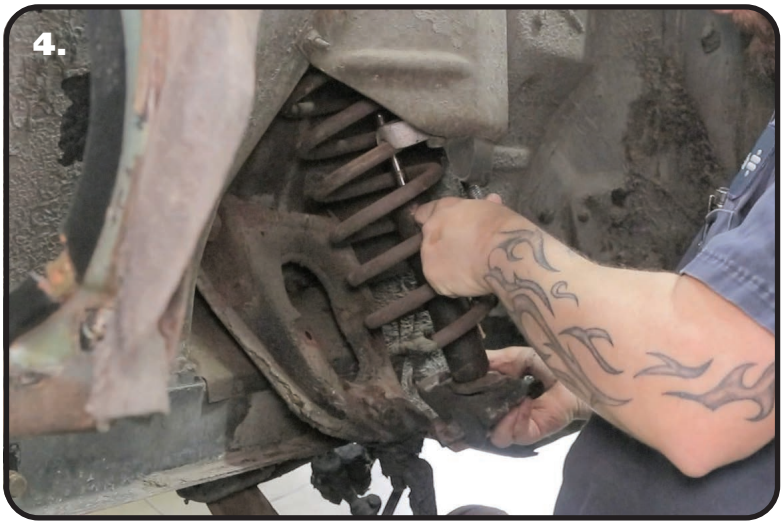
The front OEM Shock and Spring assemblies will need to be removed from the front of the car.

1. Raise the vehicle and support it by the frame, allowing the suspension to hang freely. Remove the wheels.

2. If you haven't installed the front StrongArms, do so before installing the CoilOvers. Refer to the StrongArms instructions.

Disassembly

3. The OEM upper shock mount will need to be removed from the car. Remove the upper shock nut and unbolt the mount.



4. If you haven't done so already, remove the shock spring assembly out of the car.

ShockWave Installation

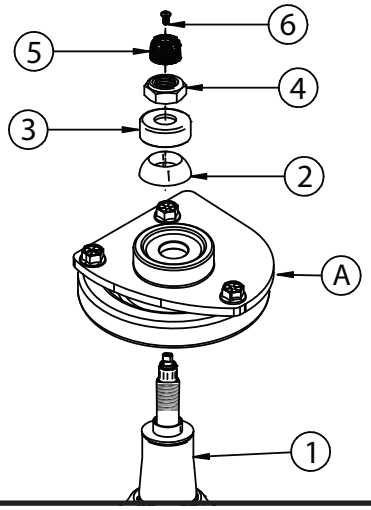
5. Insert the aluminum shock mount up into the OEM shock tower from the bottom side. The RAISED center of the shock mount will point up.

6. Hold the aluminum upper mount against the bottom of the shock tower, lining up the threaded holes with the factory slots in the shock tower.

7. Lay the upper plate on Top of the shock tower with the shock mount protruding through the large center hole. Line up the holes in the upper plate with the slots in the shock tower and the holes in the shock mount. Install a 5/16" x 1" Flange Bolt in each hole and tighten.

ShockWave Installation

8.



8. Place the ShockWave into the coil spring pocket with the stud sticking through the Aluminum upper mount (A). See assembly **Diagram 8**.

1. ShockWave Assembly
A. Upper Shock Mount
2. Delrin ball upper half
3. Aluminum cap
4. 9/16" SAE Nylok jam nut
5. Rebound adjusting knob
6. Screw

TIGHTENING THE TOP 9/16"-18 NUT: SNUG THE NUT DOWN AGAINST THE TOP CAP. YOU NEED TO BE ABLE TO ARTICULATE THE SHOCK BY HAND. WE TORQUE THE NUT TO 80 INLBS USING A 7/8" CROWS FOOT WRENCH ON A TORQUE WRENCH.

9.

9. Install a bearing spacer in each side of the Bearing. The SMALL part of the spacer inserts into the Inside diameter of the shock bearing.

10.

10. Raise the lower arm up to the ShockWave. The ShockWave/spacers will slip between the 2 shock mounting straps of the control arm. Line up the shock mounting holes with the through holes of shock Install a 1/2" flat washer on a 1/2" x 3 1/2" hex bolt. Insert the bolt/washer in the aligned holes. Install a 1/2" flat washer and 1/2"-13 nylok nut on the threads of the bolt. Torque to 50 ftlbs.

Notes and Care of your Shockwaves

NOTES:

WARNING: ATTEMPTING TO REMOVE THE AIR FITTING WILL DAMAGE IT AND VOID THE WARRANTY.

TIGHTENING THE TOP 9/16"-18 NUT: SNUG THE NUT DOWN AGAINST THE TOP CAP. YOU NEED TO BE ABLE TO ARTICULATE THE SHOCK BY HAND. WE TORQUE THE NUT TO 80 INLBS USING A 7/8" CROWS FOOT WRENCH ON A TORQUE WRENCH.

You can clock the airfitting location on the ShockWave by turning the AirSpring assembly of the shock. Make sure the fitting doesn't contact the frame.

When cutting the airline, use a razor blade. The cut needs to be a clean cut and square for the airline to seal properly.

The Locking ring on the shock is NOT adjustable. These rings are set at the factory to optimize the AirSpring stroke with the shock stroke.

The care and feeding of your new ShockWaves

1. Although the ShockWave has an internal bumpstop, **DO NOT DRIVE THE VEHICLE DEFLATED RESTING ON THIS BUMPSTOP. DAMAGE WILL RESULT**. The internal bumpstop will be damaged, the shock bushings will be damaged, and the vehicle shock mounting points may be damaged to the point of failure. This is a non warrantable situation.

2. Do not drive the vehicle overinflated or "topped out". Over a period of time the shock valving will be damaged, possibly to the point of failure. This is a non warrantable situation! If you need to raise your vehicle higher that the ShockWave allows, you will need a longer unit.

3. The ShockWave is designed to give a great ride quality and to raise and lower the vehicle. **IT IS NOT MADE TO HOP OR JUMP!** If you want to hop or jump, hydraulics are a better choice. This abuse will result in bent piston rods, broken shock mounts, and destroyed bushings. This is a non warrantable situation.

4. Do not let the ShockWave bellows rub on anything. Failure will result. This is a non warrantable situation.

5. The ShockWave product has been field tested on numerous vehicles as well as subjected to many different stress tests to ensure that there are no leakage or durability problems. Failures have been nearly nonexistent unless abused as described above. If the Shockwave units are installed properly and are not abused, they will last many, many years. ShockWave units that are returned with broken mounts, bent piston rods, destroyed bumpstops or bushings, or abrasions on the bellows will not be warrantied.

Shock Adjustment

Shock Adjustment 101- Single Adjustable

Rebound Adjustment:
How to adjust your new shocks.
The rebound adjustment knob is located on the top of the shock absorber protruding from the eyelet.
You must first begin at the ZERO setting, then set the shock to a soft setting of 20.

-Begin with the shocks adjusted to the ZERO rebound position (full stiff). Do this by rotating the rebound adjuster knob clockwise until it stops.

-Now turn the rebound adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use).

Take the vehicle for a test drive.

-if you are satisfied with the ride quality, do not do anything, you are set!

-if the ride quality is too soft increase the damping effect by rotating the rebound knob clock wise 3 clicks.

Take the vehicle for another test drive.

-if the vehicle is too soft increase the damping effect by rotating the rebound knob clock wise 3 additional clicks.

-If the vehicle is too stiff rotate the rebound adjustment knob counter clock wise 2 clicks and you are set!

Take the vehicle for another test drive and repeat the above steps until the ride quality is satisfactory.

Note:
One end of the vehicle will likely reach the desired setting before the other end. If this happens stop adjusting the satisfied end and keep adjusting the unsatisfied end until the overall ride quality is satisfactory.