FEAL 441 COILOVER SET UP GUIDE

• CONGRADULATIONS ON PURCHASING A SET OF FEAL 441 COILOVERS! THIS DOCUMENT WILL HELP YOU PROPERLY SET UP YOUR FEAL 441 COILOVERS AFTER THEY ARE INSTALLED ON YOUR VEHICLE

• ALL FEAL 441 COILOVER KITS COME WITH PRE SET DAMPING AND SPRING PRE LOAD

• SOME FEAL 441 COILOVER KITS COME WITH PRE SET RIDE HEIGHT

• SOME FEAL 441 COILOVER KITS HAVE MORE ADJUSTMENT FEATURES THEN OUTLINED IN THIS GUIDE. PLEASE EMAIL sales@fealsuspension.com FOR QUESTIONS
1. SET BALL PARK RIDE HEIGHT

• ADJUST RIDE HEIGHT BY ADJUSTING RIDE HEIGHT ADJUSTMENT, NOT SPRING PRELOAD
  • LOOSEN RIDE HEIGHT LOCKING COLLAR
  • TURN SHOCK BODY CLOCKWISE TO LOWER CAR, COUNTER CLOCKWISE TO RAISE CAR
• ADJUST RIDE HEIGHT ON COILOVERS EVENLY SIDE TO SIDE
• MEASURE FROM WHEEL HUB CENTER TO FENDER LIP FOR REFERENCE
2. SET PROPER DROOP

- MEASURE SUSPENSION DROOP
- SUSPENSION DROOP = (DISTANCE OF WHEEL HUB CENTER TO FENDER WHEN CAR IS IN AIR) - (DISTANCE OF WHEEL HUB CENTER TO FENDER WHEN CAR IS ON GROUND)
- ROLL CAR TO SETTLE SUSPENSION PRIOR TO MEASURING

\[ \text{DROOP} = X - Y \]
SET PROPER DROOP...CONTINUED

- Set droop to be 30%-40% of total suspension travel.
- **Example:** Nissan S14
  - Coilovers with 120mm stroke
  - 120mm * 0.35 = 42mm of droop

- Most Feal suspension coilover kits come with pre-set spring load to yield about 30%-40% droop!

**Desired Droop**

\[
\text{Desired Droop} = \text{Suspension Travel} \times 0.35
\]
SET PROPER DROOP...CONTINUED

- LOOSEN SPRING PRELOAD COLLARS
- INCREASE DROOP BY TURNING PRELOAD COLLARS CLOCKWISE
- DECREASE DROOP BY TURNING PRELOAD COLLARS COUNTER CLOCKWISE

**TIP:**
To decrease droop, increase spring preload. To increase droop, loosen spring preload.
3. SET FINAL RIDE HEIGHT

- Set ride height by only adjusting ride height adjustment, not spring preload.
- Roll car back and forth to settle suspension before measuring ride height.
- Subtract droop travel from total shock stroke to estimate remaining compression travel.
- Make sure you have enough clearance between tires and chassis for compression travel.
- Raise car or clearance the chassis until you have enough room for compression travel.
4. LOCK ALL LOCKING COLLARS

- DO THIS BY TAPPING END OF COLLAR WRENCHES WITH A HAMMER OR BY USING A DULL SOFT PUNCH
5. SET DAMPING ADJUSTMENTS

- **Set damping adjustments in the middle of the settings as a starting point**
- **To stiffen the ride, turn the damping adjustment clockwise 5 clicks at a time**
- **To soften the ride, turn the damping adjustment counter clockwise 5 clicks at a time**
- **Fine tune damping settings by turning the damping adjustment one click at a time**
- **All Feal 441 coilover kits are pre set before shipping with recommended damping settings**