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Component Locations

- Lower A-arm
- Tie Rod
- Push Rod
- Anti-Roll Bar
- Dampers
- Springs
Component Adjustment Points

**Damper / Springs**
- Compression Damping Adjusters
- Rebound Damping Adjusters
- Spring Preload Ring

**Anti Roll Bar**
- Numbered Blade Adjustment (Fine Scale)
- Lettered Torsion Bars (Large Scale)
- Torsion Bar Attachment
Component Adjustment Points

- Tie Rod Wrench Flats
- Push Rod Wrench Flats

- Camber Shims
- Camber Shim Hex Key Bolt
Oversteer

Symptom

Vehicle spins to inside of corner
Back end breaks loose
Requires counter steering

Cure 1

Decrease Tire Pressure

Lower 1 to 2 psi

Tools
Air pressure gauge
Cure 2

**Oversteer**

**Decrease Spring Preload**

Remove 2 to 3 complete revolutions of spring preload
Choose spring rate ~10 lbs/in lower

**Tools**

Spring adjustment wrench

Cure 3

**Decrease Negative Camber**

Remove camber shims to decrease negative camber by 0.2°

**Tools**

5mm allen key, Shims
**Understeer**

**Symptom**
- Vehicle fails to turn into corner
- Lack of front end grip
- Front wheels slide to outside

**Cure 1**

**Decrease Rear Roll Stiffness**
- Change anti-roll blade to a lower numbered position.
- Change to a lower lettered anti-roll torsion bar.

**Tools**
- 4mm hex key, 8mm wrench, B-C Rod
Cure 2

Increase Low Speed Compression Damping

Turn low speed compression adjuster 2-4 clicks clockwise

Tools
Flathead screwdriver
Difficulty Applying Power

Symptom

- Cannot apply power while accelerating
- Rear wheel chatter
- Excessive wheel spin

Cure 1

Decrease Tire Pressure

- Lower 1 to 2 psi

Tools

- Air pressure gauge
Cure 2

Difficulty Applying Power

Decrease Low Speed Compression Damping

Turn low speed compression adjuster 2-4 clicks counterclockwise

Tools
Flathead screwdriver

Cure 3

Decrease High Speed Rebound Damping

Turn high speed rebound adjuster 2-4 clicks counterclockwise

Tools
10mm wrench
Vehicle Unresponsive

Symptom

Vehicle feels sluggish and unresponsive when turning
Vehicle slow to respond to driver input
Vehicle feels sloppy

Cure 1

Increase Tire Pressure

Raise 1 to 2 psi

Tools
Air pump or compressor
**Cure 2**  
Vehicle Unresponsive

Increase Roll Stiffness

Change anti-roll blade to a higher numbered position. Change to a higher letter anti-roll torsion bar.

**Tools**
4mm hex key, 8mm wrench, A-B Rod

**Cure 3**

Increase High and Low Speed Compression Damping

Turn compression adjuster 2-4 clicks clockwise

**Tools**
10mm wrench, flathead screwdriver
Straight Line Instability

Symptom

Vehicle is twitchy under straight line acceleration

Vehicle darts while breaking

Steering wheel shake

Cure 1

Increase Rebound Damping

Turn high speed rebound adjuster 2-4 clicks clockwise

Tools

10mm wrench
Cure 2

Straight Line Instability

Increase rear wheel toe in

Increase length of tierod

**Tools**

10mm wrench

Cure 3

Decrease Negative Camber

Remove camber shims to decrease negative camber by 0.2°

**Tools**

5mm allen key
Debrief Records

| Date: ______ | Location: ______________ |
| Lap Time: __________ |
| Camber Angle: _____ - + |
| Toe Angle: _____ In Out |
| Spring Rate: _____ |
| Damping: |
| Compression: _____ (Clockwise Clicks from 0) |
| Rebound: _____ (Clockwise Clicks from 0) |
| Pushrod Length: _____ |
| Anti-roll Bar: A B C |
| Anti-roll Blade Setting: 1 2 3 4 5 6 |
| Tire Pressure: _____ |
| Track Conditions: Dry Damp Wet |
| Experiences: __________________________ |
| __________________________ |
| __________________________ |
| __________________________ |
| __________________________ |
| __________________________ |

Date: ______ | Location: ______________ |
Lap Time: __________ |
Camber Angle: _____ - + |
Toe Angle: _____ In Out |
Spring Rate: _____ |
Damping: |
Compression: _____ (Clockwise Clicks from 0) |
Rebound: _____ (Clockwise Clicks from 0) |
Pushrod Length: _____ |
Anti-roll Bar: A B C |
Anti-roll Blade Setting: 1 2 3 4 5 6 |
Tire Pressure: _____ |
Track Conditions: Dry Damp Wet |
Experiences: __________________________ |
______________________________ |
______________________________ |
______________________________ |
______________________________ |
______________________________ |
Debrief Records

Date: _______ Location: _______________
Lap Time: __________
Camber Angle: _____ - +
Toe Angle: _____ In Out
Spring Rate: _____
Damping:
  Compression: _____ (Clockwise Clicks from 0)
  Rebound: _____ (Clockwise Clicks from 0)
Pushrod Length: _____
Anti-roll Bar: A B C
Anti-roll Blade Setting: 1 2 3 4 5 6
Tire Pressure: _____
Track Conditions: Dry Damp Wet
Experiences: ____________________________
___________________________
___________________________
___________________________
___________________________

Date: _______ Location: _______________
Lap Time: __________
Camber Angle: _____ - +
Toe Angle: _____ In Out
Spring Rate: _____
Damping:
  Compression: _____ (Clockwise Clicks from 0)
  Rebound: _____ (Clockwise Clicks from 0)
Pushrod Length: _____
Anti-roll Bar: A B C
Anti-roll Blade Setting: 1 2 3 4 5 6
Tire Pressure: _____
Track Conditions: Dry Damp Wet
Experiences: ____________________________
___________________________
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___________________________