



2265 Crosswind Drive • Prescott, AZ 86301
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GM 2", 4", AND 5"/6" SUSPENSION SYSTEM INSTALLATION INSTRUCTIONS

- C2A2 2" Lift, '73-'76 K5 Jimmy/Blazer, K10 Pickup 4WD**
- C2A3 2" Lift, '76-'91 K5 Jimmy/Blazer, '76-'87 K10 Pickup 4WD**
- C23A2 2" Lift, '73-'76 K20 Pickup 4WD**
- C23A3 2" Lift, '76-'87 K20 Pickup 4WD**
- C4A2 4" Lift, '73-'76 K5 Jimmy/Blazer, K10 Pickup 4WD**
- C4A3 4" Lift, '76-'91 K5 Jimmy/Blazer, '76-'87 K10 Pickup 4WD**
- C43A2 4" Lift, '73-'76 K20 Pickup 4WD**
- C43A3 4" Lift, '76-'87 K20 Pickup 4WD**
- C5A2 5"/6" Lift, '73-'76 K5 Jimmy/Blazer, K10 Pickup 4WD**
- C5A3 5"/6" Lift, '76-'91 K5 Jimmy/Blazer, '76-'87 K10 Pickup 4WD**
- C53A2 5"/6" Lift, '73-'76 K20 Pickup 4WD**
- C53A3 5"/6" Lift, '76-'87 K20 Pickup 4WD**

⚠ WARNING

Read and understand all instructions, warnings and safety precautions in these instructions and your owners manual before attempting to install these components.

⚠ WARNING

Performance Automotive Group does not recommend combined use of suspension lifts, body lifts or other lift devices. Combined use of lifts may result in unsafe and unexpected handling characteristics. Also, many states now have laws restricting vehicle lift, bumper heights and other alterations. Consult local laws to determine if your proposed alterations (including installation of this kit) comply with your state laws.

PRODUCT SAFETY WARNING

Certain Performance Automotive Group products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Use of oversized tires, suspension lifts, body lifts and other suspension modifications may raise your vehicle's center of gravity resulting in an increased tendency for the vehicle to pitch and roll during sudden turns or abrupt maneuvers. Extreme care must be used to prevent loss of control or vehicle roll over. Failure to drive your modified vehicle safely may result in serious injury or death. Drive at reduced speeds to ensure your ability to maintain control of the vehicle under all driving conditions. Always wear seat belts.

⚠ CAUTION

Proper installation of Performance Automotive Group products requires knowledge of recommended procedures for disassembly/assembly of OE vehicles and components. Access to OE shop manuals and special tools are required. Attempting to install this kit without knowledge of these procedures may affect the safety of your vehicle and/or the performance of these components. Performance Automotive Group strongly recommends that this kit be installed by a certified mechanic with off-road experience.

⚠ CAUTION

Larger rim & tire combinations may increase leverage on suspension, steering, and related components. When selecting the wheel and tire combination for your vehicle consider the additional stress you could be inducing on OE and related components. As you increase the size of wheel/tire combinations over stock, you also increase the possibility of OE and related component failure.

⚠ PRODUCT SAFETY LABEL

Supplied in this kit is a Safety Warning Label. Install label inside cab. Locate label in highly visible location to all operators of this vehicle.

PRE-INSTALLATION NOTES

1. Driveline Note: Post suspension system vehicles may experience driveline vibrations. Driveline angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened and shafts may need to be balanced. U-joints may require replacement.
2. Suspension systems are not recommended for use on vehicles with two piece driveshafts unless otherwise stated.
3. Read and understand all instructions prior to beginning installation. Placing hardware with components before you start may help save installation time.
4. Compare parts included in your system with the enclosed parts list. Contact your nearest Trail Master dealer if any parts are missing or appear to be different from those indicated on the parts list.
5. Trail Master offers optional accessories for the CHEVROLET that may be incorporated during installation of the suspension system. Installation time could be reduced by incorporating these accessories into the initial installation.
6. Refer to OEM service manual for disassembly, reassembly, replacement procedures, and torque specifications.
7. If installation is to be performed without assistance of a vehicle hoist, Trail Master recommends performing rear alterations first.
8. Due to payload options and initial ride height variances of GM vehicles, the advertised amount of lift is a base figure. With different engine options and payload options, your vehicle may retain stock attitude. Final ride height dimensions may vary in accordance to original vehicle attitude.

⚠ CAUTION

Performance Automotive Group recommends the use of Loctite® on all hardware, unless noted otherwise

⚠ WARNING

Always wear safety glasses when using power tools.

⚠ WARNING

Properly block and secure vehicle prior to installation.

FRONT INSTALLATION INSTRUCTIONS

1. Raise vehicle and place jack stands under frame approximately 3 inches behind front spring shackles and in rear, 3 inches in front of rear spring hangers. Remove wheels and shock absorbers.

NOTE: Steps 2-4 and step 7 **DO NOT** pertain to 2 inch lift systems.

2. Place hydraulic floor jack under front differential and raise just enough to support differential.
3. **4" & 6" Lifts Only:** Remove one of two rivets attaching engine crossmember to frame rail on each side of vehicle. Install 90 degree brake line extension brackets using 3/8" fasteners provided.
4. Disconnect front brake lines at frame and reroute lines through extension brackets and secure to frame. **CAUTION:** Careful attention must be exercised when rerouting brake lines. Take care to not kink, pinch, or stretch brake lines. Bleed front brake line at affected corner before proceeding to other side. Be sure to refill master cylinder before releasing installation.
5. Remove front spring to axle U-Bolts. Remove front spring fasteners at hanger and shackles and remove springs.
6. **SA40 Installation:** Clean and oil studs before removing nuts.
7. Remove cotter pin and nut securing drag link to stock steering arm. Remove tapered stud from arm.
8. Remove nuts and tapered sleeves. To remove stock arm, strike arm on side close to studs. This will also loosen any tapered sleeves that could not be removed earlier. If stubbornness persists, remove tie-rod from driver side to allow clearance for vertical movement of large hammer. Remove arm from vehicle.

9. After removal of stock arm, clean and dress studs and check for any damage or penetrating rust that

could weaken the structural integrity of studs. If necessary, consult the OEM service manual for replacement procedures of studs. Install new arm and tighten fasteners to 175 LBS.

10. Secure drag link to new arm and tie-rod to knuckle, (if removed). Lock with cotter pins.
11. Install urethane bushings into replacement lift springs. Install steel sleeves into urethane bushings. Sleeves with small ID go into rear end of spring (small eye).
12. Install spring assemblies into vehicle using OEM fasteners removed in step 5. Fully seat spring centerpins into axle spring seat, and secure springs to axle using longer U-Bolt fasteners supplied.
13. Remove OEM bumpstops at frame brackets. Install bumpstop extension brackets to OEM frame brackets with 3/8" fasteners supplied. Secure OEM bumpstops to extension brackets using OEM fasteners.
14. Install **recommended** shock absorbers on front and desired wheels and tires. Lower front end to ground and block for rear installation. (See Product Safety Warning)
15. Install transfer care lowering kit at this time (if applicable)

REAR INSTALLATION INSTRUCTIONS

1. Remove rear wheels.

NOTE: Steps 2, 4, and 7 **DO NOT** pertain to 2" lift systems

2. Remove brakeline clip attaching line to frame bracket. Pull line through bracket approximately 4 inches. **Caution:** Careful attention must be exercised when rerouting brake line. Take care to not kink, pinch, or stretch brake lines.
3. Using a hacksaw, cut a slot through to hole and bend bracket enough to remove brake line from bracket. Bend bracket back into position.
4. Secure rear brake line extension bracket to frame bracket using remaining 3/8" fasteners. Reroute

lines through extension bracket and secure with clip. **Caution:** Careful attention must be exercised when rerouting brake line. Take care to not kink, pinch, or stretch brake lines.

5. Supporting differential with hydraulic jack, remove rear shock absorbers.
6. Remove rear U-Bolts and lower axle away from spring assemblies.
7. (Systems utilizing ADD-A-LEAFS only): "C" Clamp all arched leaves in rear spring pack and remove centerpin. Relieve "C" clamps and place ADD-A-LEAF below arched leaves. Install new centerpin from bottom of spring using caution not to damage threads. "C" clamp assembly again allowing ADD-A-LEAF to re-arch leaf pack. Install centerpin nuts and tighten. Remove "C" clamps. Repeat procedure on opposite side.
8. Place lift blocks on top of axle, tapered end forward, and secure assemblies with supplied U-Bolt fasteners.
9. Install **recommended** shock absorbers and desired wheel and tire combinations. (See Product Safety Warning)

POST-INSTALLATION WARNINGS

1. Check all fasteners for proper torque. Check to make sure there is adequate clearance between all rotating, mobile, fixed, and heated members. Make sure there is adequate clearance between exhaust and brake lines, fuel lines, fuel tank, floor board, and wiring harnesses. Check steering gear for interference and for proper working order. Inspect brake lines for damage and for adequate clearance. Test brake system.
2. After installation of system, it may be necessary to replace brake hoses to insure there is adequate slack in hoses when suspension is at full extension. A steering sweep must be performed to insure brake hoses have sufficient slack and will not come in contact with any rotating, mobile or fixed members.
3. Perform headlight adjustment.

4. Set vehicle alignment within OE specification. The size of rim and tire combination should be considered when making front end adjustments.
5. Retorque all fasteners after 500 miles. Visually inspect components and retorque fasteners during routine vehicle service.
6. Retain this and all information regarding your altered vehicle for future reference. Thank you for choosing Trail Master. For questions or suggestions, contact our Technical Assistance Department @ 928-636-3175

PARTS LIST

- | | |
|----|--|
| 2 | Front Leaf Spring |
| 8 | Leaf Spring Bushing |
| 4 | Leaf Spring Bushing Sleeve |
| 4 | Front U-Bolt |
| 4 | Rear U-Bolt |
| 16 | 5/8" U-Bolt Washer |
| 16 | 5/8" U-Bolt Nut |
| 2 | Rear Lift Block |
| 2 | 90 Degree Front Brake Line Extension
(4" and 6" only) |
| 1 | Rear brake line Extension (4" and 6" only) |
| 5 | 3/8" x 1" Bolts (4" and 6" only) |
| 5 | 3/8" Locknuts (4" and 6" only) |
| 5 | 3/8" Flat Washer (4" and 6" only) |
| 2 | Bumpstop Extension (4" and 6" only) |
| 2 | Rear ADD-A-LEAF (6" only) |
| 2 | Center Pins (6" only) |
| 2 | Nut, Center Pin (6" only) |
| 2 | Front Sway Bar Extension (6" only) |
| 4 | 7/16" x 2" bolt (6" only) |
| 4 | 7/16" Locknut (6" only) |
| 1 | Cotter Pin, 1/8" (6" only) |

Needed Parts Sold Separately

- | | |
|---|---|
| 2 | Transfer Case Shims (6" only) P/N- TC89 |
| 1 | Steering Arm (6" only) P/N- SA40 |

TORQUE SPECIFICATIONS

5/16" Fine Fastener	17 Ft. Lbs.
3/8" Coarse Fastener	30 Ft. Lbs.
3/8" Fine Fastener	35 Ft. Lbs.
7/16" Coarse Fastener	50 Ft. Lbs.
1/2" Fine Fastener	75 Ft. Lbs.
9/16" Coarse Fastener	110 Ft. Lbs.
9/16" Fine Fastener	120 Ft. Lbs.
5/8" Coarse Fastener	150 Ft. Lbs.

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