Formerly Camoplast Solideal, Camso is the best of Camoplast and Solideal. To keep moving forward while staying true to our history, we're now Camso, the Road Free Company.

INTRODUCTION

These guidelines are designed to provide you with the information necessary to perform the required adjustments to the system. The right adjustments have a direct impact on performance and life of the system’s components. It is important to follow closely the instructions contained in this document in order to make the correct system adjustments and thereby reach optimum system performance.

Follow all the instructions contained in this document. To make sure that every step has been performed, a checklist is provided at the end of the instructions to verify that all the adjustments have been made.

IMPORTANT

The warranty does not apply if the Track System was installed by someone other than a Camso dealer or authorized distributor.

IMPORTANT

Verifying Track System adjustments is mandatory after first use on the vehicle; track tension, alignment and angle of attack of each track system unit must be re-verified. Incorrect adjustments can decrease System performance and result in premature wear or breakage of certain components.
IMPORTANT

Before starting the installation, verify that the serial numbers are identical on all 4 track systems. The serial number’s last digit (0, 1, 2, 3) indicates the mounting position on the vehicle. Lay out the track systems accordingly. Refer to Figure 1 and Figure 2.

NOTE: If the serial numbers on the track systems do not match, contact your authorized Camso dealer / distributor.

Figure 1

Figure 2
NOTE: To make the following adjustments, position the vehicle on a flat and level surface.

ANGLE OF ATTACK - FRONT TRACK SYSTEMS

To obtain the correct angle of attack on front Track Systems, perform the following:

• Orient the steering wheel and the Track Systems straight ahead

• Temporarily apply pressure to the front of the track to make sure that it stays flat on the ground

• Stabilizing arm (1) must be attached to the front anchor bracket (2) installed on the vehicle. See Figure 3.

• A Bubble Level is attached to the inside of the front frames. A perfectly centered bubble is needed to adjust the angle of attack correctly. See Figure 4.

NOTE: Before each measurement, temporarily apply light pressure to the front of the track to make sure that it stays flat on the ground.

• Loosen anti-rotation bracket bolts (1) and (2) to allow the anti-rotation retainer (3) to rotate freely on its axis. See Figure 5.

• Loosen jam nut (1). Adjust length of rod end (2) by rotating the steering limiter support plate on (3) the stabilizing arm. Use a 30 mm wrench to rotate support plate to obtain a perfectly centered bubble in the level. Figure 6.

NOTE: Stabilizing arms on front Track Systems incorporate a steering limiter support plate (3) that is bent. This plate should be positioned inwards, towards the vehicle.
When angle of attack is correctly set, tighten the jam nut (1) back against the stabilizing arm to 40 N•m [30lb•ft] of torque. See Figure 7.

**CAUTION:** Tighten jam nut to recommended torque specification. Overtightening nut might damage rod end.

Re-tighten anti-rotation bracket bolts (1) and (2) to 50 N•m [37 lb-ft] of torque. See Figure 8.

Once the centered bubble in the level indicates that the angle of attack is correct, double-check the setting by validating the distance from the top of the back tires to the ground.

Position a flat bar on top of the rear wheels of the front Track System and measure from the ground up to the flat bar as shown on Figure 9.

**BASIC TUNING** (Front Track Systems)

- An adjustment of more than **308 mm [12 1/8 in]**, measured with the flat bar, provides easier steering but produces a wobbling effect at high speed.
- An adjustment of less than **308 mm [12 1/8 in]**, measured with the flat bar, results in harder steering and more stability at high speed.

**CAUTION:** The 308 mm dimension corresponds to the required angle of attack setting. If the centered bubble in the level does not produce the required measurement of 308 mm, re-adjust angle of attack to obtain the required dimension without referring to the bubble level.

**NOTE:** Once angle of attack on front systems is set, verify once again to confirm adjustment.
ANGLE OF ATTACK - REAR TRACK SYSTEMS

To obtain the correct angle of attack on rear Track Systems, perform the following:

RIGID AXLE OR TRAILING ARM SUSPENSION

CAUTION: Some vehicles require a particular adjustment. Refer to the Installation Guidelines specific to your vehicle model to confirm the adjustment.

• Stabilizing arm (1) must be attached to Track System and to rear anchor bracket (2) installed on vehicle. See Figure 10.

![Figure 10](image10.png)

NOTE: Actual Rear Anchor bracket (2) installed on vehicle may differ from the one in the illustration.

• Loosen nut (3) compressing stabilizing rod spring. See Figure 11.

![Figure 11](image11.png)

NOTE: Use wide part of adjusting template provided with stabilizing arm to make adjustment.

• Set nut (4) to obtain a distance of 19 mm between nut and stabilizing arm guide as shown on Figure 12.

![Figure 12](image12.png)

• Turn nut (3) until it comes in contact with spring, then compress spring by turning nut 1 1/2 turns. See Figure 13.

![Figure 13](image13.png)

• IMPORTANT: Double-check 19 mm minimum distance between nut and stabilizing arm guide. Re-adjust as needed. See Figure 14.

NOTE: Use provided template to double-check adjustment.
INDEPENDENT SUSPENSION (IS)

- Stabilizing arm (1) must be attached to rear anchor bracket (2) installed on vehicle. See Figure 15.

  NOTE: Actual Rear Anchor bracket (2) installed on vehicle may differ from the one in the illustration.

Figure 15

- Loosen anti-rotation bracket bolts (1) and (2) to allow anti-rotation retainer (3) to rotate on its axis. See Figure 16.

Figure 16

- Turn stabilizing arm nut to adjust length of rod end (1) and get rubber cone (2) to apply light pressure on anti–rotation retainer (3). See Figure 17.

Figure 17

BASIC TUNING (Rear Track Systems):

- The adjustment is incorrect when the stabilizing arm’s rubber cone is compressed and deformed. The stabilizing arm’s spring is then difficult or impossible to turn by hand.

Figure 18

- Re-tighten jam nut (1) to 40 N•m [30 lb-ft] of torque when adjustment is complete. Figure 18.

CAUTION: Tighten jam nut to recommended torque specification. Overtightening nut might damage rod end.

Figure 19

- Re-tighten anti-rotation bracket nuts (1) and (2) to 50 N•m [37 lb-ft] of torque. See Figure 19.

NOTE: Once angle of attack on rear systems is set, verify once again to confirm adjustment.

TRACK SYSTEM REMOVAL

CAUTION: Leaving the anti-rotation anchor brackets attached to the suspension arms, after having removed the Track Systems, could cause interference which might damage the vehicle. Remove all Track System anti-rotation mechanism components installed on the vehicle before reinstalling the wheels.
ALIGNMENT

Parallelism must be adjusted with the SxS on the ground, driving the vehicle forward about 3 meters [10 ft.] and measuring toe-in distance. Refer to Figure 20.

NOTE: Every time the measurement has to be taken, drive in reverse, then, drive forward again on about 3 meters [10 ft.].

CAUTION: Verify condition of the steering system components before adjusting parallelism. Damaged components can prevent proper adjustment and impair proper operation of the system.

CAUTION: The parallelism adjustment of the front Track Systems is very important and is directly linked to the longevity of the system components. Users must follow attentively the adjustment and verification recommendations of this manual.

Adjustment Method

To adjust the SxS’s steering system, first loosen coupling rod nut (1), then screw or unscrew the coupling rod (2) an equal number of revolutions on both sides of the vehicle. See Figure 21.

NOTE: Starting with an open alignment setting provides a higher degree of precision in the adjustment.

CAUTION: Remember that some nuts have reverse threads before loosening a coupling rod nut (f) on the vehicle’s steering system. Make sure to unlock the nut in the proper rotational direction.

Figure 21

NOTE: Once parallelism on front systems is set, verify once again to confirm adjustment.

Dimension A: distance between inner front tires.

Dimension B: distance between inner back tires.

Dimension A must be equal to or greater than dimension B without exceeding 3 mm [1/8 inch].

A - B = 0 to 3 mm [1/8 inch]
**Measure A:** Measure the distance between the front inside Ø241 mm tires of the front Track Systems. See Figures 22, 23 and 24.

**Measure B:** Measure the distance between the rear inside Ø241 mm tires of the front Track Systems. See Figures 25, 26 and 27.
RUBBER TRACK TENSION

CAUTION: The Track Tensioner assembly bolt must be loosened to adjust track tension.

To adjust track tension, turn tension adjustment bolt clockwise or counterclockwise to obtain the recommended track tension. See Figure 29.

CAUTION: Make sure to re-tighten Track Tensioner assembly bolt after completing track tension adjustment.

The table below shows the force (1) applied and the deflection (2) which must occur to correctly set track tension. Refer also to Figure 31.

<table>
<thead>
<tr>
<th>TRACK</th>
<th>FORCE</th>
<th>DEFLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>13.5 kg [30 lb]</td>
<td>19 mm [¾ inch]</td>
</tr>
<tr>
<td>Rear</td>
<td>11 kg [24 lb]</td>
<td>19 mm [¾ inch]</td>
</tr>
</tbody>
</table>

Final Check

Ride at slow speed on a distance of about 1.5 km [1 mile]. Re-adjust as required.

CAUTION: Minor installation problems could present themselves on some vehicles due to interference between system components and the vehicle. Refer to section entitled “COMPLETION” in the Installation Guidelines for instructions on how to work out installation problems.
CAMSO UTV 4S1 TRACK SYSTEMS
INSTALLATION AND ADJUSTMENT CHECKLIST

** Steps in this checklist are laid out in logical order. They should be performed in succession to optimize the track system installation on the vehicle. **

<table>
<thead>
<tr>
<th>1 - COMPONENT INSTALLATION</th>
<th>✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - INSTALLATION OF REAR ANCHOR</td>
<td></td>
</tr>
</tbody>
</table>
* Refer to INSTALLATION GUIDELINES section entitled "Rear track systems"
|   |
| B - INSTALLATION OF FRONT ANCHOR |
* Refer to INSTALLATION GUIDELINES section entitled "Front track systems"
|   |
| C - INSTALLATION OF STEERING LIMITERS (if applicable) |
* Refer to INSTALLATION GUIDELINES section entitled "Front track systems". ** Do not adjust the Steering Limiter sets before having adjusted the angle of attack. |

<table>
<thead>
<tr>
<th>2 - COMPONENT ADJUSTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - ANGLE OF ATTACK</td>
</tr>
</tbody>
</table>
* Refer to ADJUSTMENTS section entitled "Angle of attack" |
|   |
| B - TRACK ALIGNMENT |
* Refer to ADJUSTMENTS section entitled "Track alignment" |
|   |
| C - TRACK TENSION |
* Refer to ADJUSTMENTS section entitled "Track tension" |
|   |
| D - STEERING LIMITER ADJUSTMENT (if applicable) |
* Refer to INSTALLATION GUIDELINES section entitled "Front track systems" |

<table>
<thead>
<tr>
<th>3 - INTERFERENCE CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN THE EVENT OF INTERFERENCE BETWEEN THE VEHICLE AND TRACK SYSTEM, SOME PARTS ON THE VEHICLE MAY HAVE TO BE REMOVED OR MODIFIED, OR A LIFT KIT MAY HAVE TO BE INSTALLED. IF APPLICABLE, SEE INSTALLATION GUIDELINES SECTION ENTITLED &quot;COMPLETION&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 - TEST RUN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 km (1 mile) TEST RUN</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5 - POST TEST RUN FINAL CHECKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - ANGLE OF ATTACK</td>
</tr>
</tbody>
</table>
* Refer to ADJUSTMENTS section entitled "Angle of attack" |
|   |
| B - ALIGNMENT |
* Refer to ADJUSTMENTS section entitled "Track alignment" |
|   |
| C - TRACK TENSION |
* Refer to ADJUSTMENTS section entitled "Track tension" |