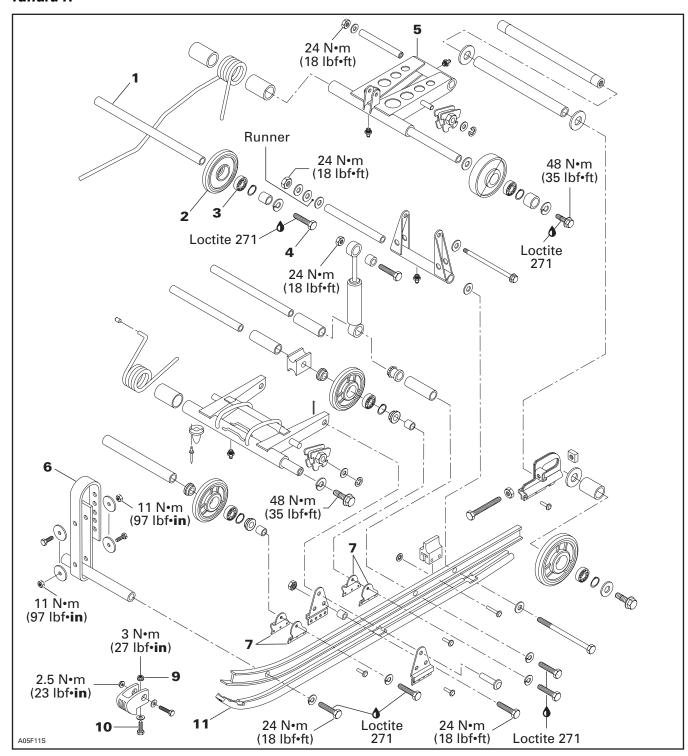
TABLE OF CONTENTS

TORQUE REACTION SUSPENSION	07-02-1
COMPONENT REMOVAL	07-02-2
SUSPENSION ASS'Y REMOVAL	07-02-2
DISASSEMBLY AND ASSEMBLY	07-02-2
INSPECTION	07-02-3
SUSPENSION ASS'Y INSTALLATION	07-02-3
RIDE ADJUSTMENT	07-02-4
LUBRICATION	07-02-5
SC-10 SUSPENSIONS (ALL VERSIONS)	07-03-1
COMPONENT REMOVAL AND INSTALLATION	07-03-3
SUSPENSION ASS'Y REMOVAL	07-03-5
DISASSEMBLY AND ASSEMBLY	07-03-5
SHOCK ABSORBER INSPECTION	07-03-7
INSTALLATION	07-03-8
RIDE ADJUSTMENT	07-03-8
LUBRICATION	07-03-9
SKANDIC WT SUSPENSION	07-04-1
REMOVAL	07-04-2
DISASSEMBLY AND ASSEMBLY	07-04-2
SHOCK ABSORBER SERVICING	07-04-3
INSTALLATION	07-04-4
DRIVE AXLE	07-05-1
REMOVAL	07-05-4
DISASSEMBLY	07-05-4
ASSEMBLY	07-05-5
INSTALLATION	07-05-7
LUBRICATION	07-05-7
ADJUSTMENT	07-05-7
TRACK	07-06-1
TRACK TYPE APPLICATION	07-06-1
GENERAL	07-06-1
INSPECTION	07-06-1
REMOVAL	07-06-1
INSTALLATION	07-06-1

TORQUE REACTION SUSPENSION

Tundra R



Subsection 02 (TORQUE REACTION SUSPENSION)

COMPONENT REMOVAL

Lift rear of vehicle and support it off the ground.

5, Rear Arm

Release track tension.

Release spring tension. Unfasten shock from rear arm. Remove 3 screws retaining rear arm.

SUSPENSION ASS'Y REMOVAL

Release track tension.

NOTE: To prevent cross shaft from turning when unscrewing screws assembled with threadlocker, proceed as follows:

- Loosen one screw then retighten.
- Remove the other screw.
- Remove the first one.

1,2,3,4, Cross Shaft, Idler Wheel, Spacer and Screw

Remove idler wheel ass'y.

Suspension Ass'y

Lift rear of vehicle and support it off the ground.

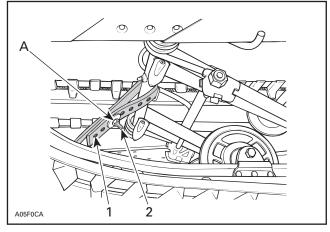
Unscrew 4 screws retaining front arm and rear arm to frame.

Remove suspension.

DISASSEMBLY AND ASSEMBLY

6, Stopper Strap

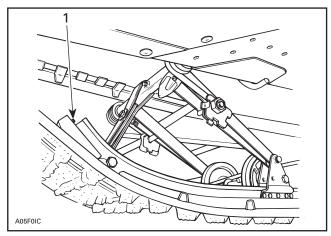
When assembling make sure it is attached through the 3^{rd} hole from the end. Torque nut to 11 N•m (97 lbf•in).



- 1. 1st hole
- 2. 3rd hole
- A. 11 N•m (97 lbf•in)

9,10,12, Nut, Slotted Screw and Slider Shoe

To replace a worn shoe, remove the front screw and stop nut, then slide the shoe rearward out of the runner.



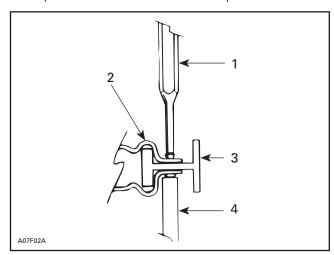
1. Front screw and nut

CAUTION: Slider shoes must always be replaced in pairs.

7,8, Support and Front Arm Support

To remove rivets securing the supports, cut rivet heads off using a cold chisel.

At assembly, position the rivet head toward the outside of the assembly. Support the rivet head against a metal block, as shown, and use a flat head punch to secure the rivet in place.



- 1. Flat head punch
- Support
- Runner
- 4. Metal block

NOTE: Rivets can be substituted with 3/16 in x 3/4 in long screws and flanged elastic stop nuts. Always position screw head outside the assembly.

INSPECTION

6, Stopper Strap

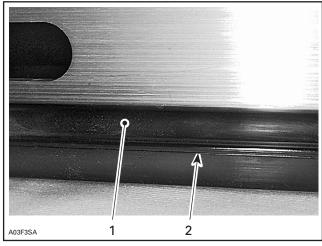
Inspect strap for wear or cracks, bolt and nut for tightness. If loose, inspect hole for deformation. Replace as required.

Shock Absorber

Refer to SUSPENSION AND SKI SYSTEM 08-03 for shock inspection.

11, Slider Shoe

Molding line is the wear limit indicator.



TYPICAL

- 1. Slider shoe
- 2. Molding line (wear limit indicator)

Replace slider shoes when wear limit is reached.

CAUTION: Slider shoes must always be replaced in pairs.

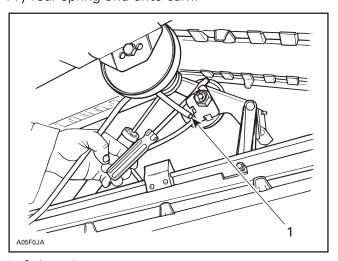
SUSPENSION ASS'Y INSTALLATION

Release rear spring tension then install assembled suspension into track with front portion first.

Insert rear portion of suspension into track.

Bolt suspension to tunnel.

Pry rear spring end onto cam.



1. Sprina end

Adjust track tension/alignment. Refer to TRACK 07-06.

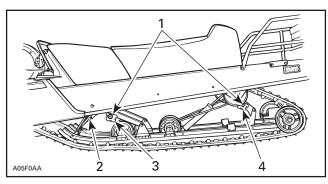
Subsection 02 (TORQUE REACTION SUSPENSION)

RIDE ADJUSTMENT

The front portion of rear suspension is adjustable for surface condition and steering effects.

The stopper strap is adjustable for vehicle weight transfer control.

The rear portion of rear suspension is adjustable for driver's weight.



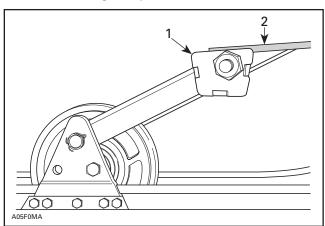
- 1. Driver's weight
- Stopper strap for weight transfer
- 3. Steering effect/surface condition
- 4. Adjustment cams

Choice of suspension adjustments depends on carrying load, driver's weight, personal preference, riding speed and field condition.

Slight suspension bottoming occurring under the worst riding conditions indicates a good choice of spring preload.

To adjust rear suspension adjustment cams, use special key supplied in vehicle tool box.

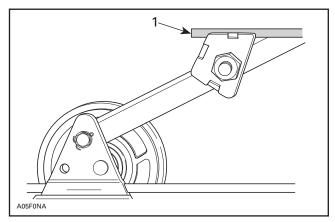
Turning adjustment cam moves edges of cam supporting spring rod. The softest adjustment is reached when the supporting edge of cam is the closest to hexagonal portion of cam.



SOFTEST ADJUSTMENT

- 1. Supporting edge closest to hexagonal
- 2. Spring

The stiffest adjustment is reached when the supporting edge of cam is the farthest to hexagonal portion of cam.

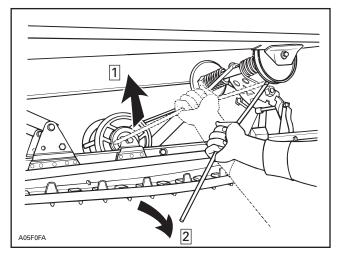


STIFFEST ADJUSTMENT

1. Supporting edge farthest to hexagonal

NOTE: To quickly change rear cam position without using any tool:

- Lay vehicle on its side.
- Unhook rear spring by hand from lower idler wheel.



- Turn adjustment cam by hand to the desired position.
- Reinstall spring on its support making sure that it sits in the groove of support.

Stopper Strap

The function of the stopper strap is to control the transfer of vehicle weight during acceleration and to control track lead angle.

The longer the belt, the more the weight will be transferred to the track to provide a better traction. The shorter the belt, the lesser the weight transferred to the track, thus maintaining a more positive steering.

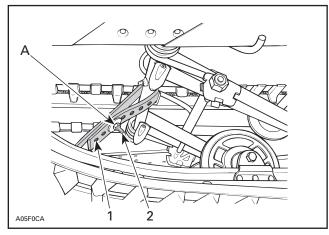
The longer the belt, the greater will be the track lead angle. A shorter belt will reduce track lead angle which may help when negotiating a particular snow condition.

Adjusting holes on the stopper strap allow to adjust it according to driver's requirements, field and/or snow conditions.

CAUTION: Whenever stopper strap length is changed, track tension must be readjusted to prevent any possibility of operating vehicle with a too loose or too tight track tension.

For normal use, locate bolt through 3rd hole from strap end.

Always torque the nut to 11 N·m (97 lbf•in). Replace strap if worn or torn.



- 1. 1st hole
- 2. 3rd hole
- A. 11 N•m (97 lbf•in)

NOTE: When towing a load, it is suggested to adjust stopper strap to its shortest length, soften front springs of rear suspension and stiffen rear springs. These adjustment will improve steering ability.

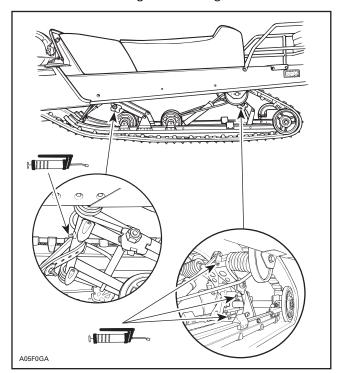
Deep Snow Operation

When operating the vehicle in deep snow, it may be necessary to change position of adjustment cams, stopper strap and/or driver's riding position, to change the angle at which the track rides on the snow. Operator's familiarly with the various adjustments as well as snow conditions will dictate the most efficient combination.

LUBRICATION

Lubricate front and rear arms at grease fittings using synthetic grease (P/N 413 711 500).

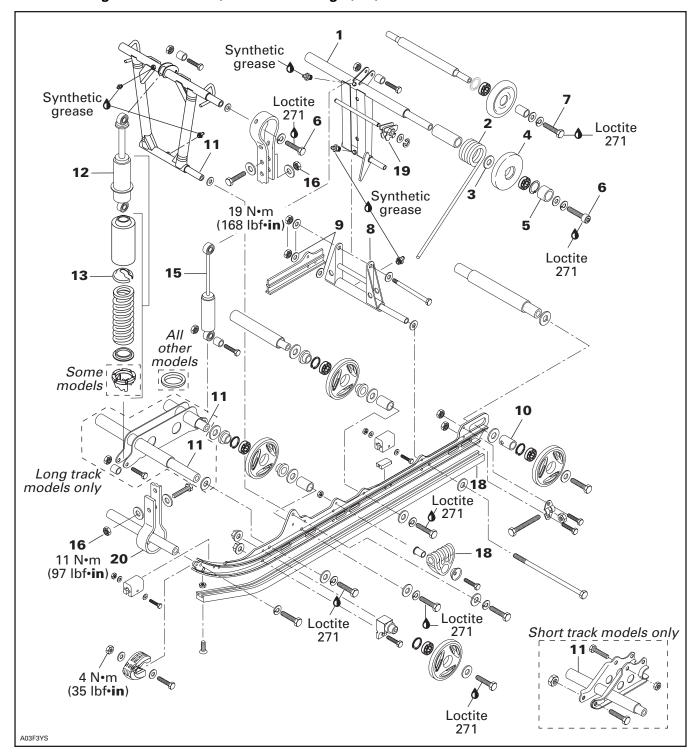
NOTE: There are 4 grease fittings.



SC-10 SUSPENSIONS (ALL VERSIONS)

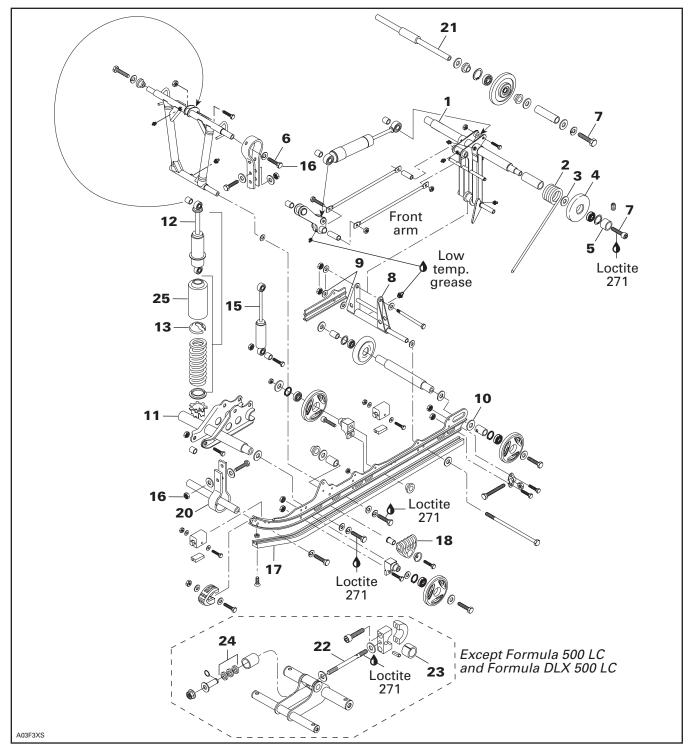
SC-10 Sport on Formula S/DLX 380/DLX 500 and MX Z 440

SC-10 Touring on Skandic 380/500 and Touring E/LE/SLE



Subsection 03 (SC-10 SUSPENSIONS (ALL VERSIONS))

SC-10 High-Performance on Formula 500 LC, Formula DLX 500 LC and Touring 500 LC



COMPONENT REMOVAL AND INSTALLATION

Lift rear of vehicle and support it off the ground.

21, Rear Axle

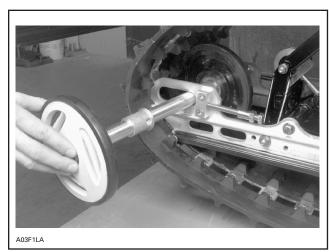
Remove screw on rear axle on side of offset wheel. Completely loosen track tension.

Pull out rear axle from opposite side of offset inner wheel. Proceed on either sides for models with 4 wheels on rear axle.

At assembly, temporary loosen rear shackle lower pivot nut and ACM (Acceleration and Control Modulator) support rear bolt.

Align spacer hole with adjusting bolt.

Make sure to reinstall washer on each side of runner.



TYPICAL

SC-10 HP

22, Threaded Rod Ass'y

NOTE: Do not disassemble threaded rod ass'y needlessly.

Lift rear of vehicle.

Unhook rear springs.

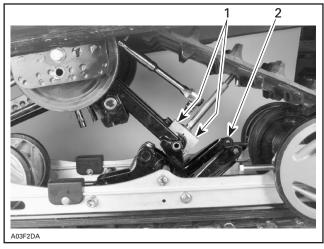
Unscrew threaded rod nut.

Remove upper through bolt from shackle.

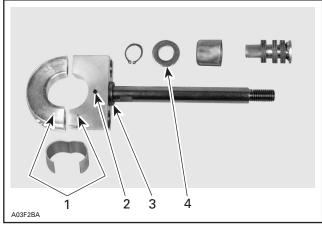
Swing shackle rearward.

Swing rear arm upward to disengage threaded rod from its support.

Unscrew block ass'y Allen screws.



- 1. Block ass'y Allen screw
- Schackle



- 1. Marks
- 2. Roll pin
- 3. Smaller washer
- 4. Larger washer

23, Cushion

Separate pivot block.

Remove cushion.

Apply synthetic low-temperature grease on cushion at reassembly.

At assembly, match marked side of both pivot blocks.

When cup is disassembled, it may be too difficult to install circlip before reinstalling this assembly. Install all parts and the circlip loosely around threaded rod. Compress rear of vehicle or lift the front to easily install circlip in its groove.

Subsection 03 (SC-10 SUSPENSIONS (ALL VERSIONS))

25, ACM Support

Remove threaded rod ass'y. Loosen rear axle screw on one side and lower shackle screw.

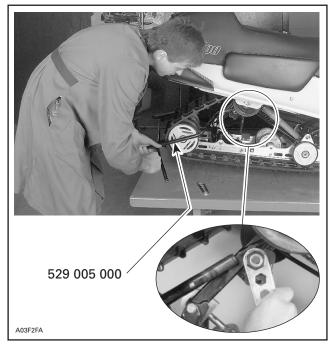
Unbolt ACM support and remove it.

Remove cup.

15, Rear Shock

Lift rear of vehicle.

Slightly turn adjusting cam to expose spring end. Using spring installer (P/N 529 005 000), remove left spring from adjusting cam.

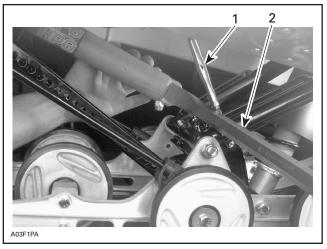


Remove nut on top end of shock.

Remove nut on bottom end of shock. Pry up shock bottom end to ease removing bolt (gas shock only). See installation illustration below.

Installation is reverse of removal procedure. To easily compress gas shock absorber, use a pry bar and locking pliers as a stopper.

CAUTION: Take care not to damage grease fitting.



- 1. Locking pliers
- 2. Pry bar

12, Front Shock

All Models

Unfasten one end of stopper strap(s). Unbolt shock and remove it.

2, Rear Spring

All Models

Remove spring ends from adjusting cams. Unbolt rear arm top axle from chassis.

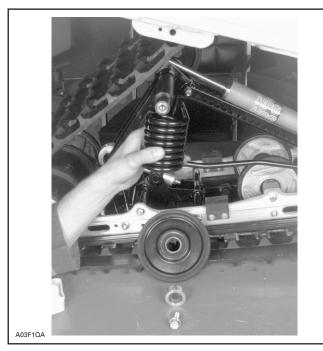
All Liquid Cooled Models

Unscrew set screws from locking ring at each end of top axle.

All Models

Remove locking rings (spacers on fan cooled models) and top idler wheels.

Remove springs.



TYPICAL

At reassembly, respect THIS SIDE OUT inscription on wheel.

SUSPENSION ASS'Y REMOVAL

19, Cam

Decrease spring preload by turning cams accordingly.

Lift rear of vehicle and support it off the ground. Loosen track tension.

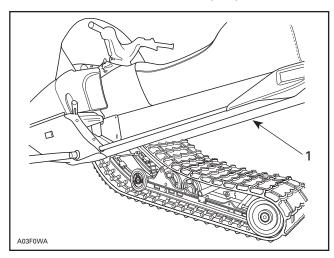
Remove rear arm top axle screws **no**. **7** from chassis.

NOTE: To prevent axle from turning when unscrewing screws assembled with threadlocker, proceed as follows:

- Knock on screw head and/or heat to break threadlocker bond.
- Loosen one screw then retighten.
- Remove the opposite screw.
- Remove the first one.

Unscrew center idler wheel axle from tunnel then remove.

Lift rear of vehicle at least 1 m (3 ft).



1. At least 1 m (3 ft)

Remove both screws **no. 6** retaining front arm to tunnel.

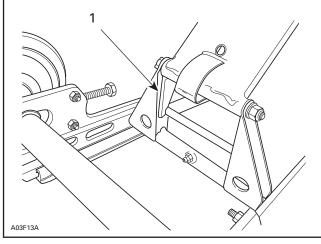
Remove suspension.

DISASSEMBLY AND ASSEMBLY

Inspect track thoroughly before reinstalling suspension. Refer to TRACK 07-06.

1, Rear Arm

At installation, rear arm stroke limiter must be on rear side.



1. Stroke limiter on rear side

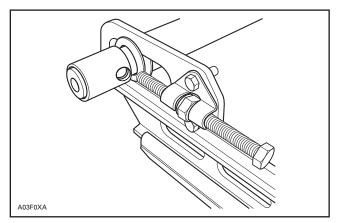
8,9, Shackle Arm and Flat Washer

At installation shackle arm grease fitting must face rearward.

Subsection 03 (SC-10 SUSPENSIONS (ALL VERSIONS))

10, Outer Bushing

At installation, hole must face adjustment screw.



11, Axle

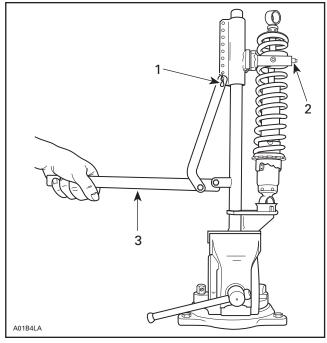
Note position of axles at disassembly. Axles with a paint stripe serve as idler wheel axles. These are more precise than those used as pivot axles. Idler wheel axles can be used as pivot axles but the opposite is not true.

12,13,14, Front Shock, Spring Stopper and Cap

Use shock spring remover (P/N 529 035 504) and put it in a vise. Mount shock in it and turn shock so that spring coils matched spring compressor.

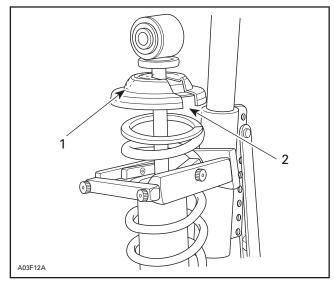
Close and lock bar. Adjust handle horizontal by changing position of clevis pin.

Push down on handle until it locks. Remove spring stopper and cap then release handle.



- 1. Clevis pin
- 2. Ba
- 3. Handle horizontal

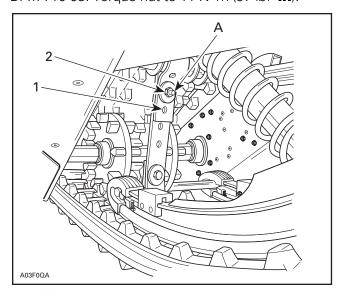
At installation, cap opening must be 180° from spring stopper opening.



- 1. Cap opening
- 2. Spring stopper opening

20, Stopper Strap

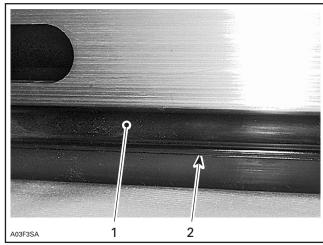
Inspect strap for wear or cracks, bolt and nut for tightness. If loose, inspect hole for deformation. Replace as required. Make sure it is attached through proper hole from the end. Refer to TECHNICAL DATA 10-03. Torque nut to 11 N•m (97 lbf•in).



- 1. 1st hole
- 2. 2nd hole
- A. 11 N•m (97 lbf•in)

17, Slider Shoe

Molding line is the wear limit indicator.



TYPICAL

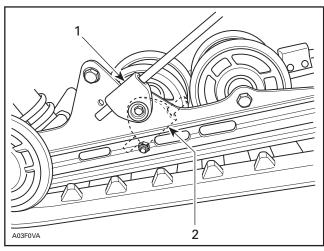
- 1. Slider shoe
- 2. Molding line (wear limit indicator)

Replace slider shoes when wear limit is reached.

CAUTION: Slider shoes must always be replaced in pairs.

18, Spring Support

CAUTION: To avoid track damage, spring supports must be mounted upward.



RIGHT SIDE SHOWN

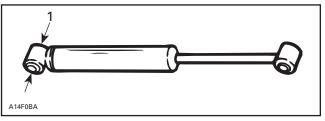
- 1. Right position: upward
- 2. Wrong position

SHOCK ABSORBER INSPECTION

All Models Equipped with Hydraulic Shock

NOTE: Hydraulic shocks are painted black or dark gray.

Secure the shock body end in a vise with its rod upward.



1. Clamp

CAUTION: Do not clamp directly on shock body.

Examine each shock for leaks. Extend and compress the piston several times over its entire stroke. Check that it moves smoothly and with uniform resistance with its rod upward.

Subsection 03 (SC-10 SUSPENSIONS (ALL VERSIONS))

Pay attention to the following conditions that will denote a defective shock:

- A skip or a hang back when reversing stroke at mid travel.
- Seizing or binding condition except at extreme end of either stroke.
- Oil leakage.
- A gurgling noise, after completing one full compression and extension stroke.

Renew if any faults are present.

All Models Equipped with Gas Pressurized Shock

NOTE: Gas pressurized shocks are light gray painted

Gas shock can be inspected as follows:

Because of gas pressure, strong resistance is felt when compressing shock. When released, the shock will extend unassisted. Renew as required.

If suspecting an internal gas leak between oil chamber and gas chamber, check shock as follows:

Install shock in a vise clamping on its bottom eyelet with its rod upward.

Let it stand for 5 minutes.

Completely push down the shock rod then release.

Rod must come out at a steady speed. If speed suddenly increases particularly at end of extension, replace shock.

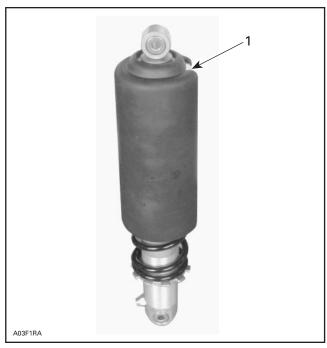
If suspecting a frozen gas shock proceed as follows:

Place shock in a freezer (temperature below 0°C (32°F)) for 4 hours.

Push down on rod and note its resistance, compare to a new shock. If shock is frozen it will be much more difficult to compress than for the new one.

25, Protector

At assembly, mount protector with its notch toward front.



1. Notch

INSTALLATION

Install assembled suspension into track with front portion first.

Insert rear portion of suspension into track.

Bolt front arm, rear arm then center top idler wheel axle.

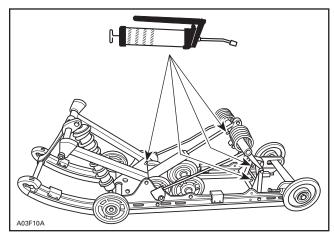
Adjust track tension.

RIDE ADJUSTMENT

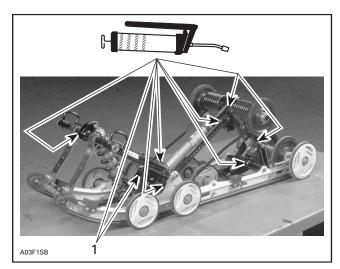
Refer to Operator's Guide.

LUBRICATION

Lubricate front and rear arms at grease fittings using synthetic grease (P/N 413 711 500).



SC-10 SPORT AND TOURING: 4 GREASE FITTINGS

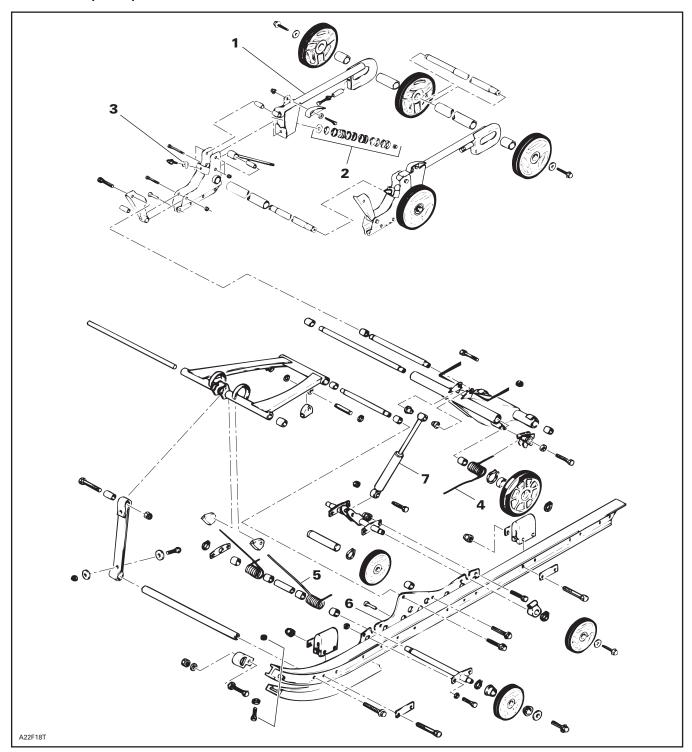


SC-10 HP: 7 GREASE FITTINGS

1. Only the GT 583 has this 8th grease fitting

SKANDIC WT SUSPENSION

Skandic WT/SWT/WT LC



TYPICAL

Subsection 04 (SKANDIC WT SUSPENSION)

REMOVAL

Release track tension.

Lift rear of vehicle and support it off the ground.

Unbolt front arm then rear arm.

NOTE: To prevent cross shaft from turning when unscrewing screws assembled with threadlocker, proceed as follows:

- Knock on screw head to break threadlocker bond.
- Loosen one screw then retighten.
- Remove the opposite screw.
- Remove the first one.

Remove suspension ass'y.



DISASSEMBLY AND ASSEMBLY

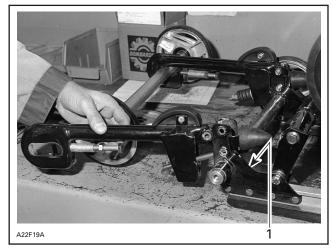
1, Extension

Remove nuts and conical washers from the eye bolt adjuster. Remove bolt retaining eye bolt adjuster to support.

Remove rear idler wheel on appropriate side.

Remove idler wheel from support.

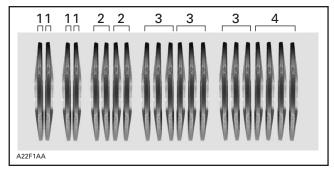
Unbolt extension from its support.



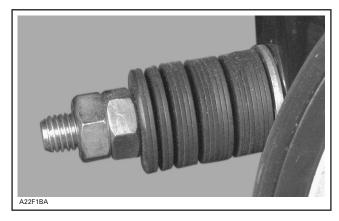
1. Support

2, Conical Washer

At installation, position conical washers as shown.



WASHER QUANTITY AND MOUNTING POSITION



Tighten nut 3/4 turn after contacting washers for better deep snow performance. Maximum preload is 3 turns after nut touching washers. This last adjustment is for trail riding with or without a load and for pulling a load.

Subsection 04 (SKANDIC WT SUSPENSION)

4, Rear Spring

Remove top idler wheels.

Unscrew one end of shock.

Remove spring.

5, Front Spring

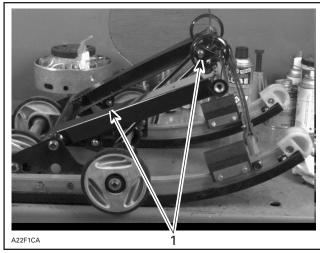
Remove circlips retaining spring support to top and bottom of front arm.

Holding spring end, remove lock pin of top spring support then bottom support lock pin.

Unbolt front idler wheel axle.

Remove idler wheel on side where axle retaining plate is not welded.

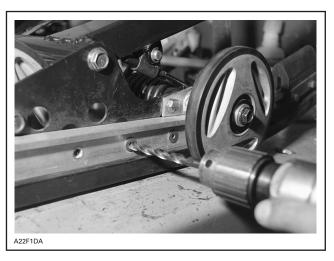
Remove springs.



1. Circlips

6, Support Plate

Drill rivets to remove support plate. Use a 8 mm (21/64 in) drill bit.



Rivets can be substitued by M8 x 20 bolts and nuts.

3. Horse-Shoe Washer

For deep snow riding, do not install washer nor rubber stoppers.

For trail riding with passenger and/or weight, install 1 washer under each rubber stoppers.

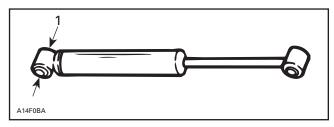
For trail riding with heavy load and/or pulling a load, use 2 washers under each rubber stoppers.

7, Shock

Install shock with its rod upward.

SHOCK ABSORBER SERVICING

Secure the shock body end in a vise.



TYPICAL

1. Clamp

CAUTION: Do not clamp directly on shock body.

Examine each shock for leaks. Extend and compress the piston several times over its entire stroke then check that it moves smoothly and with uniform resistance.

Pay attention to the following conditions that will denote a faulty shock:

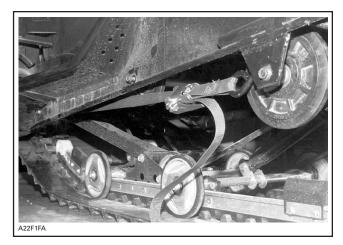
- A skip or a hang back when reversing stroke at mid travel.
- Seizing or binding condition except at extreme ends of stroke.
- Oil leakage.
- A gurgling noise, after completing one full compression and extension stroke.

Renew if any fault is present.

Subsection 04 (SKANDIC WT SUSPENSION)

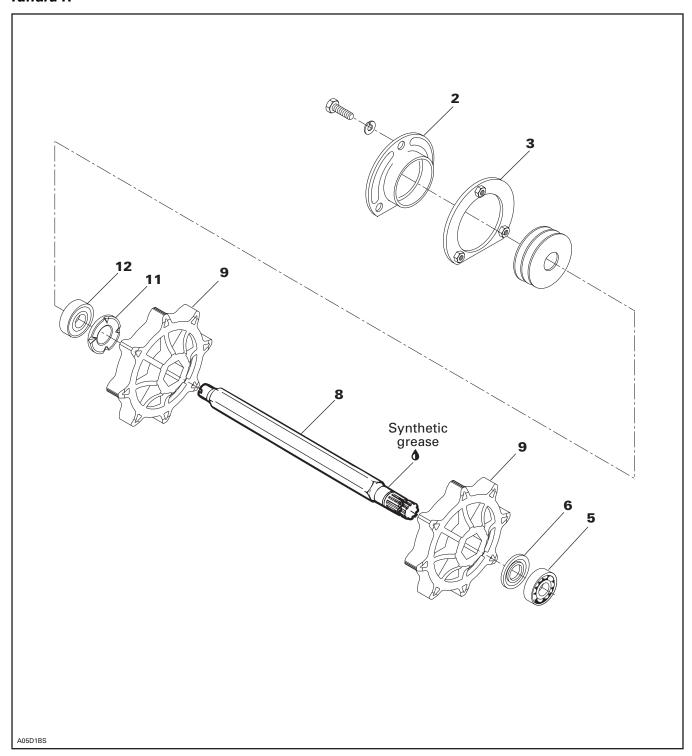
INSTALLATION

Use a tie-down between front arm and spring axle to ease installation of front arm screws.



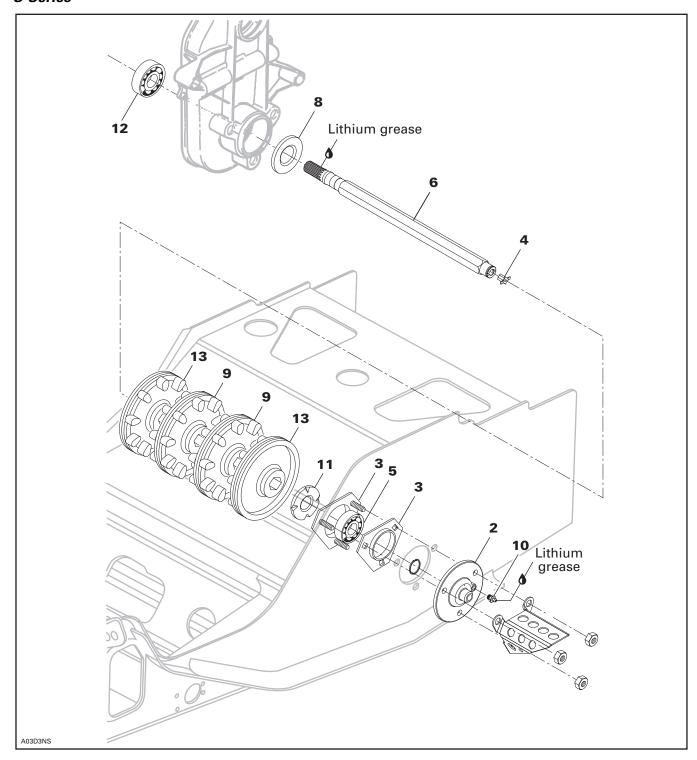
DRIVE AXLE

Tundra R

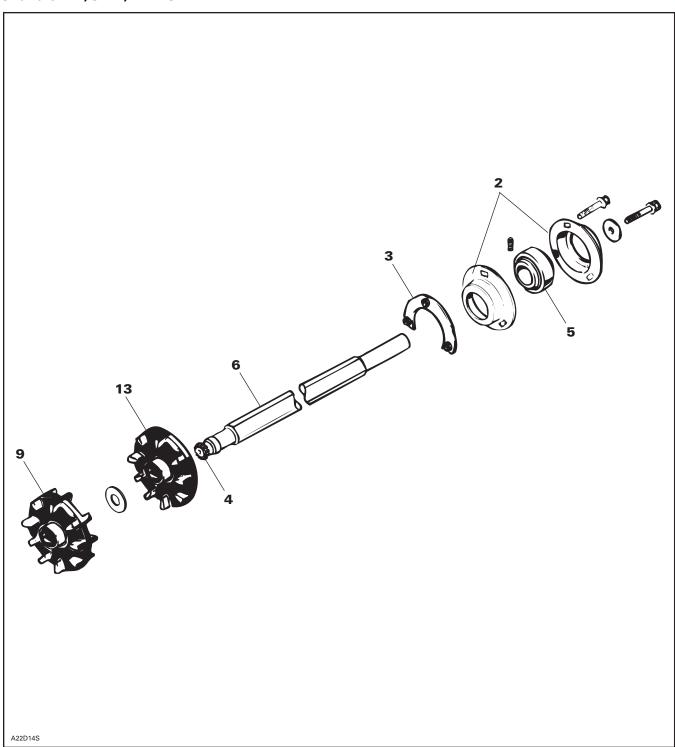


Subsection 05 (DRIVE AXLE)

S-Series



Skandic WT/SWT/WT LC



Subsection 05 (DRIVE AXLE)

REMOVAL

All Models Except Skandic WT/SWT/WT LC

Drain oil from chaincase or gearbox. Release drive chain tension. Remove chaincase cover.

Raise and block rear of vehicle off the ground.

Remove suspension. Refer to SUSPENSION 07.

2,8, End Bearing Housing and Seal

Remove speedometer cable, cable protector, and plastic bearing cover. Remove circlip from drive axle.

Remove chain and sprocket then circlip and bearing from drive axle.

Pry oil seals from chaincase and end bearing housing.

6,9,13, Drive Axle and Sprocket

Release drive axle sprocket from track and at the same time, pulling the drive axle towards the end bearing housing side.

Remove drive axle from vehicle.

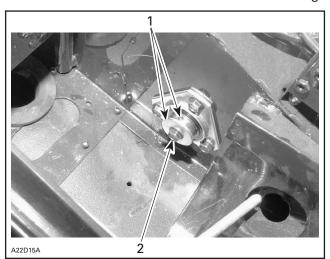
Skandic WT/SWT/WT LC Only

Drain gearbox.

Raise and block rear of vehicle off the ground.

Remove suspension. Refer to SKANDIC WT SUS-PENSION 07-04.

Remove muffler. Unfasten screw from drive axle end. Loosen both Allen screws from end bearing.



1. Allen screws

2. Screw

Remove 3 screws retaining end bearing then remove inner plate.

Remove drive axle.

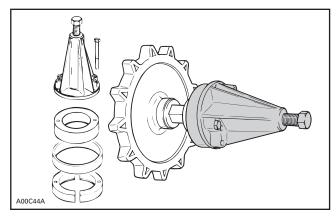
DISASSEMBLY

4, Speedometer Drive Insert

Remove speedometer drive insert.

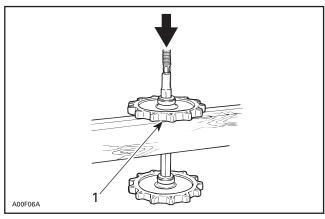
5,12, Bearing

To remove bearings, use puller assembly, ring and half rings as illustrated.



9,13, Sprocket and Half-Sprocket

To remove press fit sprockets, use a press and a suitable support as illustrated.



TYPICAL

1. Support sprocket near hub

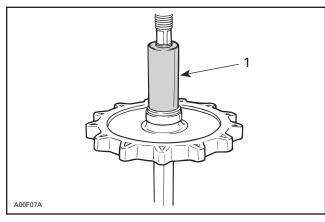
NOTE: Two different types of sprocket press fit can be found. Ensure to replace ring reinforced sprockets with the same type.

Subsection 05 (DRIVE AXLE)

ASSEMBLY

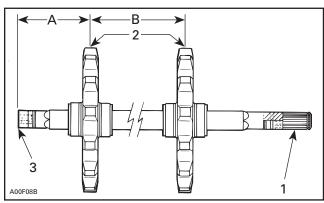
8,9,13, Drive Axle and Sprocket

To assemble press fit sprockets, use a press and a suitable pipe as illustrated. Sprockets must be assembled according to the following dimensions.



1. Pipe

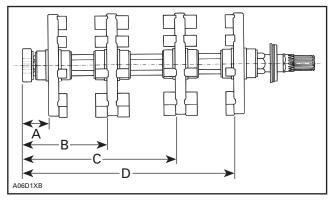
Tundra R



TYPICAL

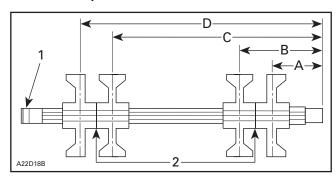
- Chaincase side
- Center line of s
 Drive axle end Center line of sprocket
- A. 85.5 mm (3-23/64 in) B. 237 mm (9-21/64 in)

S-Series



- A. 49 mm (1.929 iii) B. 151.2 mm (4.724 in) C. 274.2 mm (10.795 in) C. 274.2 mm (10.795 in) D. 376.3 mm (14.815 in)

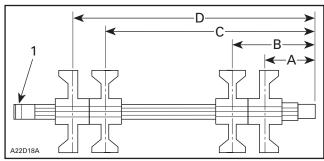
Skandic WT/WT LC



- 1. Gearbox side
- Washer

- 2. Washer A. 93.5 mm (3-43/64 in) B. 157 mm (6-11/64 in) C. 399 mm (15-45/64 in) D. 462.5 mm (18-13/64 in)

Skandic SWT



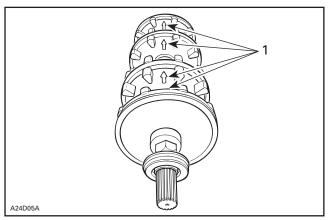
TYPICAL

- 1. Gearbox side
- 105 mm (4-9/64 in)
- B. 207mm (8-5/32 in)
- C. 449 mm (17-43/64 in) D. 551 mm (21-11/16 in) 449 mm (17-43/64 in)

Subsection 05 (DRIVE AXLE)

All Models

Ensure to align indexing marks of each sprocket when assembling.

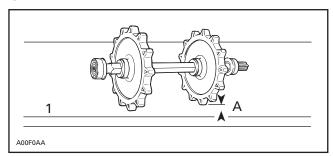


TYPICAL

1. Indexing marks aligned

The maximum desynchronization for the sprockets is 1.5 mm (1/16 in).

To check this tolerance, place axle assembly on a plane surface and measure the gap between sprocket tooth and surface.

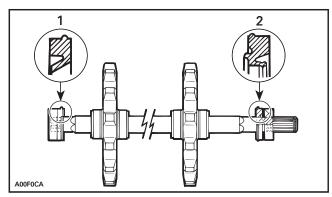


1. Plane surface A. 1.5 mm (1/16 in) MAXIMUM

CAUTION: The same sprocket must not be pressed twice on the axle. If synchronization is found to be defective, use a new sprocket.

6,8, Drive Axle and Seal

When assembling drive axle, always position a new seal on each end of drive axle (if applicable). Locate seal lip as illustrated.



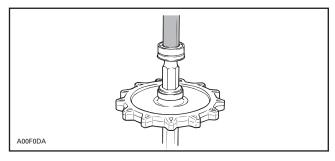
- Grease seal type
 Oil seal type

11, Bearing Protector

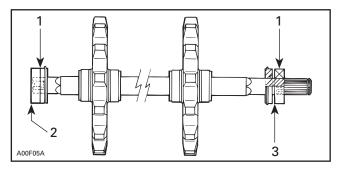
At assembly, flat side of bearing protector must be against bearing.

5,12, Bearing

Always push bearing by inner race.



The bearing on the splined side of axle must be pushed until it is seated on shaft shoulder. The end bearing housing bearing must be flush with end of drive axle. Each bearing must have its shield facing the sprocket.



- Bearing shield on this side
- Flush with drive axle
- Seated on shaft shoulder

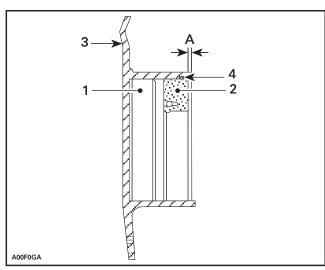
INSTALLATION

4, Speedometer Drive Insert

If the drive axle to be installed is a new part and the vehicle is equipped with a speedometer, a correct size speedometer drive insert must be installed into the axle end. Ensure that insert is flush with end of axle.

Position drive axle assembly into location. Install end bearing housing. Install spacer (if applicable) between bearing and lower chaincase sprocket.

Install chaincase and position seals (if applicable), making sure that a gap of approximately 2 mm (1/16 in) exists between end of bearing housing and each seal.



SIDE VIEW

- 1. Bearing
- Seal
- 3. Housing
- Seal lip
- A. 2 mm approximately

3, Retainer Ring

Make sure that welded nuts are toward inside of tunnel.

Lock drive axle sprocket with a circlip.

Reinstall the chaincase cover.

Refill with chaincase oil. Refer to TECHNICAL DATA 10-03.

Install the suspension. Refer to TRACK 07-06 and adjust track tension and carry out track alignment procedure.

LUBRICATION

15, Grease Fitting

Lubricate end housing bearing with synthetic grease (P/N 513 711 500).

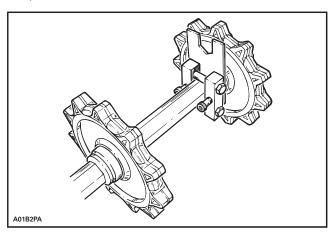
ADJUSTMENT

Sprocket/Track Alignment

CAUTION: Do not tamper with sprocket/track alignment if frame or suspension is damaged.

Sprockets might be repositioned to fit lugs without removing drive axle.

Use drive axle sprocket adjuster kit (P/N 861 725 700).



TYPICAL

TRACK

TRACK TYPE APPLICATION

Refer to TECHNICAL DATA section 10-03.

GENERAL

This section gives guidelines for track removal. Some components require more detailed disassembly procedures. In these particular cases, refer to the pertaining section in this manual.

INSPECTION

Visually inspect track for:

- cuts and abnormal wear
- broken rods
- broken or missing track cleats

If track is damaged or rods are broken, replace track. For damaged or missing cleats, replace by new ones, using cleat remover (P/N 529 028 700). Use small-cleat installer (P/N 529 008 500).

⚠ WARNING

Do not operate a snowmobile with a cut, torn or damaged track.

REMOVAL

Tundra R

Remove the following items:

- chaincase cover, sprockets, chain
- muffler
- upper center idler ass'y
- suspension
- end bearing housing
- drive axle seal
- drive axle (outwards from end bearing housing)
- track

S-Series

Remove the following parts:

- speedometer cable
- muffler
- chaincase cover
- suspension
- drive axle seal
- end bearing housing
- sprockets and chain
- drive axle (toward end bearing housing)
- track

Skandic WT/SWT/WT LC

Remove the following parts:

- rear suspension
- muffler

Drain gearbox.

Remove drive axle then track.

INSTALLATION

All Models

Reverse the removal procedure.

NOTE: When installing the track, respect rotation direction indicated by an arrow on track thread.

Check sprocket/track alignment as described in DRIVE AXLE 07-05.

Track Tension and Alignment

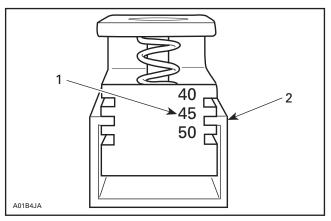
Track tension and alignment are inter-related. Do not adjust one without checking the other. Track tension procedure must be carried out prior to track alignment.

Subsection 06 (TRACK)

Tension

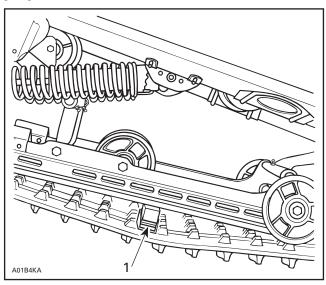
Lift the rear of vehicle and support with a mechanical stand. Allow the slide to extend normally. Check the gap halfway between front and rear idler wheels. Measure between slider shoe and bottom inside of track.

When using the track tension gauge (P/N 529 021 500), slide U-shape extrusion to proper deflection. Refer to TECHNICAL DATA 10.



- 1. Example: 45 mm
- 2. Extrusion

Insert preset gauge between slider shoe and track. Allow gauge to settle by forcing track up and down. Track tension is as specified when edge of gauge reaches line.



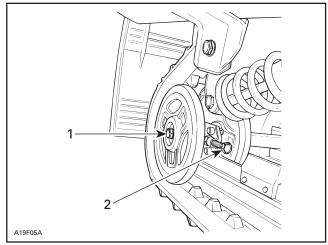
TYPICAL

1. Line

NOTE: Lightly oil track tension gauge center pin to avoid sticking.

CAUTION: Too much tension will result in power loss and excessive stress on suspension components. If too loose, the track will have a tendency to thump.

To adjust, loosen the rear idler wheel retaining screws then loosen or tighten the adjuster bolts located on the inner side of the rear idler wheels.



TYPICAL

- 1. Retaining screw
- 2. Adjuster bolt

Alignment

⚠ WARNING

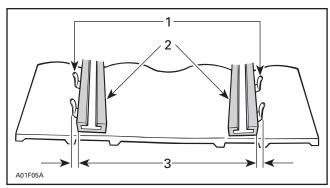
Before checking track tension, ensure that the track is free of all particles which could be thrown out while it is rotating. Keep hands, tools, feet and clothing clear of track. Ensure no one is standing in close proximity to the vehicle.

Subsection 06 (TRACK)

All Models

With rear of vehicle supported off the ground, start engine and allow the track to rotate **slowly**.

Check that the track is well centered; equal distance on both sides between edges of track guides and slider shoes.

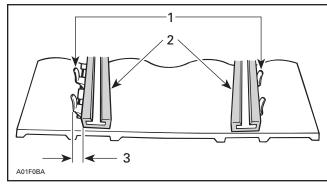


- 1. Guides
- 2. Slider shoes
- 3. Equal distance

⚠ WARNING

Before checking track alignment, ensure that the track is free of all particles which could be thrown out while track is rotating. Keep hands, tools, feet and clothing clear of track.

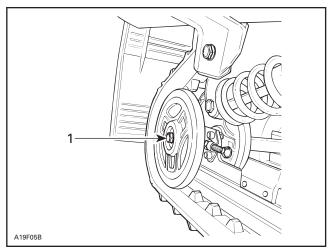
To correct, stop engine then tighten the adjuster bolt on side where guides are farthest to slide. Recheck alignment.



- 1. Guides
- 2. Slider shoes
- Tighten on this side

NOTE: Torque retaining screw to 48 N•m (35 lbf•ft) after adjustment.

Tighten the idler wheel retaining screws.



TYPICAL

1. Retighten

Restart engine, rotate track **slowly** and recheck alignment.

Track Cleat

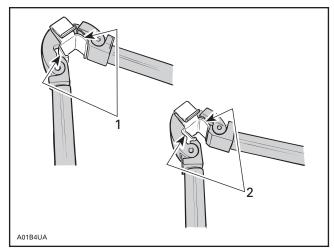
Removal

- Raise rear of vehicle off the ground and lift snow guard then rotate track to expose a cleat to be replaced.
- Using track cleat remover (P/N 529 028 700) for all models.

Installation

NOTE: Keep the same pitch between guide cleats.

 Place new cleat in position and using small track cleat installer (P/N 529 028 800) bend cleat then push tabs into rubber.



TYPICAL

- 1. First step
- 2. Second step (to push tabs into rubber)