

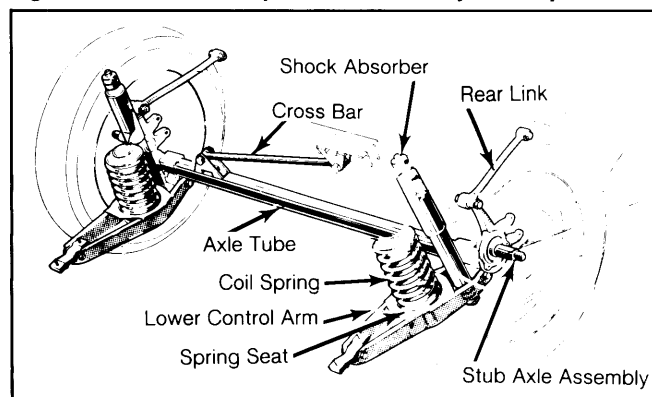
SAAB 900 & 900 TURBO

DESCRIPTION

Rear suspension is a rigid axle type with coil springs. Rear axle is straight tube with stub axles press fitted into the ends. Axle is mounted to body by 2 lower control arms, which are connected at rear to the axle tube and to the body at front.

Rear links are also used which mount rearward from stub axle assembly to body. A cross bar is mounted from right side of axle and attaches to body support in center. Coil springs are mounted between lower control arms and body. Shock absorbers are used which are attached between lower control arms and body.

Fig. 1: Assembled Suspension Assembly & Components



ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

See *Wheel Alignment Specifications and Procedures* in **WHEEL ALIGNMENT** section.

WHEEL BEARING

Install washer and hub nut. Tighten hub nut to 36 ft. lbs. (49 N.m) to seat bearings. Loosen hub nut completely. Retighten to 1.5-3.0 ft. lbs. (2-4 N.m). Lock nut into place by bending flange into slot of hub nut.

REMOVAL & INSTALLATION

WHEEL BEARING

Removal

1) Raise vehicle and support with safety stands, under vehicle body. Remove wheel assembly. Remove caliper and support out of the way. Remove brake disc. Pry out dust cap.

NOTE: Do not lift vehicle with floor jack or frame lift contacting rear axle tube.

2) Remove hub nut and washer. Pull off hub. Remove seal ring with screwdriver. Remove inner rings of both bearings. Place a drift in milled recesses in hub and drive out outer bearing rings.

Installation

1) Press outer rings of bearings into hub using drift (89 96 241). Fill half the space between outer rings with grease and lubricate inner ring. Locate inner ring of inner bearing and install a new shaft seal.

2) Lubricate bearing surfaces with grease. Install hub to stub axle, insert the inner ring of outer bearing and mount washer and nut. Adjust wheel bearing. To complete installation, reverse removal procedures.

COIL SPRING

Removal

1) Apply hand brake and loosen wheel lug nuts. Raise vehicle and support with safety stands. Remove wheel assembly. Support control arm with floor jack. Slightly raise arm and disconnect lower end of shock absorber.

2) Disconnect control arm from body. Support rear axle with stand to prevent sudden drop of axle. Lower control arm and remove spring, spring support and rubber spacer (if equipped). Check spring for wear or damage.

Installation

To install, reverse removal procedure. Use new lock nuts to attach control arm to body.

AXLE ASSEMBLY

Removal

1) Raise vehicle and support with safety stands, under vehicle body. Remove wheel assemblies. Disconnect rear brake hoses and plug. Lower shock absorber attachments and cross bar.

2) Position a floor jack under rear axle, lower axle and remove rear springs. Remove bolts from spring link rear bushings and remove axle assembly from vehicle.

Installation

1) To install, reverse removal procedures. When repositioning axle tube, do not place floor jack in center of axle tube. Either use 2 floor jacks (one at each end) or 1 floor jack and 1 safety stand.

2) Do not tighten bushings until vehicle weight is on suspension to ensure bushings are aligned correctly. Cross bar-to-body retaining bolt must be installed with nut facing forward. Bleed brake system.

SHOCK ABSORBER

Removal (Standard Type)

Raise vehicle and support with safety stands, under vehicle body. Remove wheel assembly. Disconnect shock absorber from upper and lower mounting brackets. Remove shock absorber.

Installation

Bleed air from shock absorber before installing by holding shock upright and working it through full cycle several times. Reverse removal procedure to install shock.

CAUTION: Used pneumatic shock absorbers require special handling to prevent personal injury. Drill a hole 3/8-5/8" (10-15 mm) from the edge in pressure changer before discarding.

Removal (Pneumatic Type)

1) Raise vehicle and support with safety stands, under vehicle body. Remove wheel assembly. Support axle with safety stand to prevent sudden drop of axle.

2) Raise control arm with a floor jack placed under axle. Remove shock retaining nuts and control arm-to-rear axle mounting bolts. Lower control arm and remove shock.

Installation

To install, reverse removal procedures.