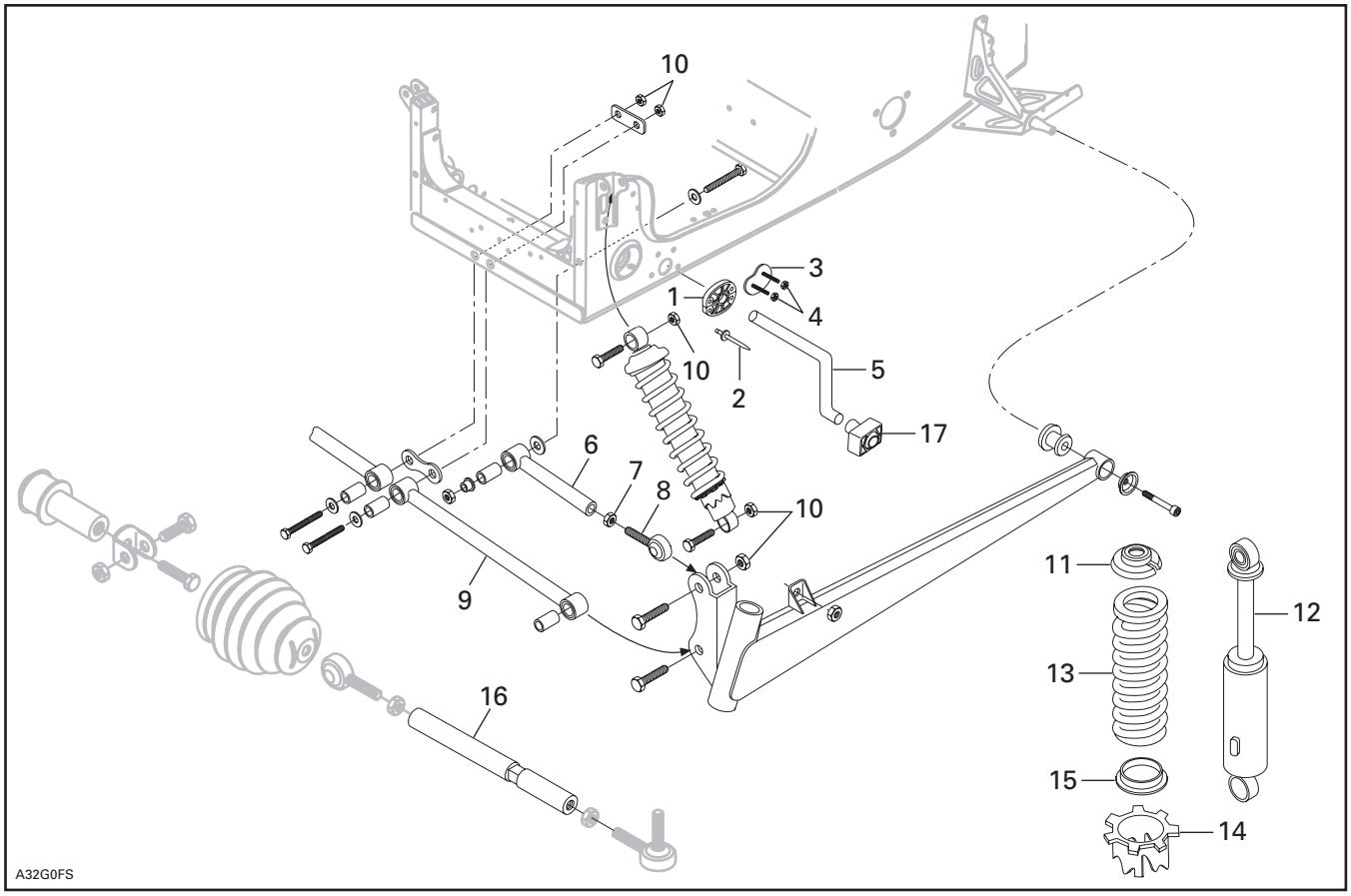
SKI STANCE WIDENING KIT (42.5 IN) (P/N 860 502 500)

⚠ WARNING

For safety reasons, this kit must be installed by an authorized Ski-Doo® snowmobile dealer. Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific applicable models only. It is not recommended for units other than those for which it was sold.

NOTE: Installation time is approximately **2.5** hours.

PARTS TO BE INSTALLED



1. Half Bushing (4)
2. Rivet 3/16 (4)
3. Threaded Soldered Plate (2)
4. Flanged Elastic Nut M5 (4)
5. Stabilizer Bar
6. Upper Arm Assembly (2)
7. Jam Nut M12 (2)
8. Ball Joint (2)
9. Lower Arm Assembly (2)
10. Elastic Stop Nut M10 (12)
11. Spring Stopper (2)
12. Front Shock (2)
13. Spring (2)
14. Cam (2)
15. Spring Guide (2)
16. Tie Rod (2)
17. Ball Joint Block (2)

VEHICLE PREPARATION

Lift front of vehicle and support it with a stand.

Remove tuned pipe(s).

Remove the tie-rods by unscrewing them from the ball joints on both sides. Turn steering to be able to reach tie-rods.

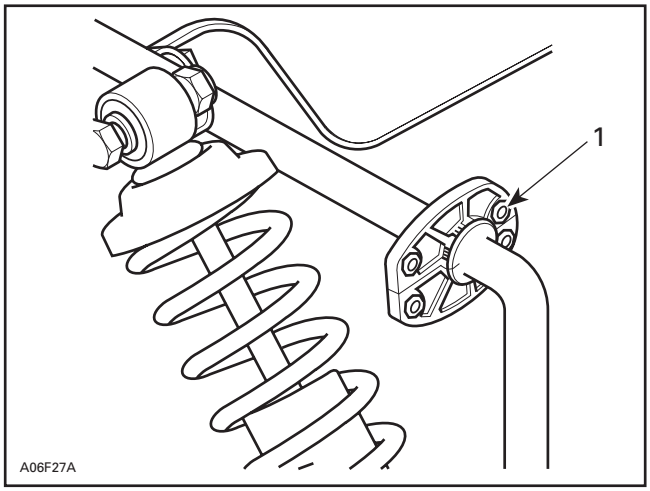
Remove caps each side of the shock's upper bolt.

Remove shock absorbers.

Unbolt pivot arms from frame and put them aside to free space for control arm bolt removal.

NOTE: Pivot arm assembly contains many parts. To make sure reinstalling pivot arms properly, take care to avoid loosing any part.

Remove nuts and bolts from upper and lower control arms. On swing arm side, keep bolts and discard nuts. On frame side, slide bolts into frame to allow control arms to be removed and discard nuts.



1. Pop rivets (4)

Unscrew swing arm from its pivot and spread it apart to free the stabilizer bar.

Drill rivets of bushings and remove them from their location, then remove the stabilizer bar.

NOTE: Bushings may be removed with a chisel.

INSTALLATION

Arms Installation

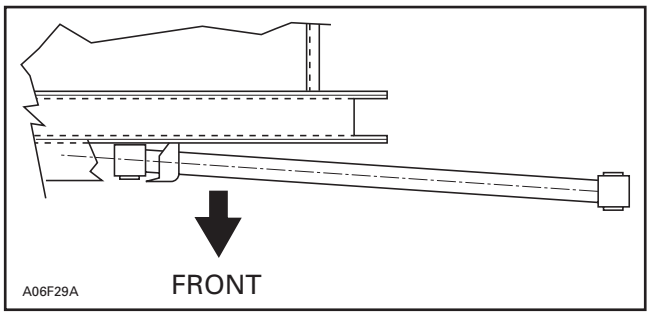
Install the ball joint **no. 8** with M12 jam nut **no. 7** on upper arm assembly **no. 6**.

Put upper arms in place and secure them using bolts and new M10 elastic stop nuts **no. 10**.

Make sure that the ball joint is toward the outside of the machine.

Install the new lower arms **no. 9** using bolts and new M10 elastic stop nuts **no. 10** (inner side only, do not tighten yet).

Position arms with the angle toward front as illustrated.



Stabilizer Bar Installation

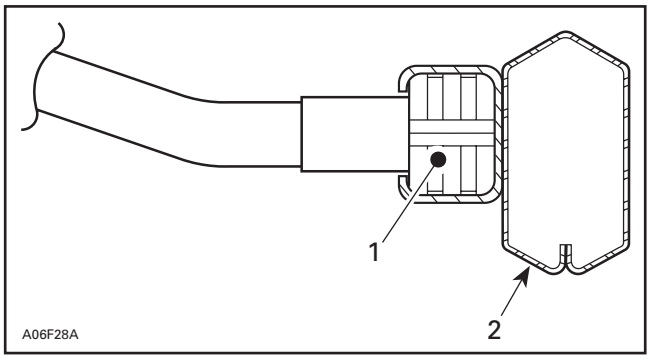
Insert threaded soldered plate **no. 3** in stabilizer bar hole using curved pliers. Screw a half bushing **no. 1** on threaded soldered plate with an M5 flanged elastic nut **no. 4** to make it hang in place as shown on photo. Take care to place concave side of threaded soldered plate beside hole of stabilizer bar.

NOTE: Install one threaded plate with upper half bushing on each side before installing stabilizer bar.

Install new stabilizer bar **no. 5**.

Screw other lower half bushings **no. 1** with M5 flanged elastic nuts **no. 4** on threaded soldered plate and finish installation using 3/16 rivets **no. 2**.

Install one sliding block **no. 17** into both swing arms and apply low temperature grease (P/N 413 711 500). Refer to the following illustration.



1. Sliding block
2. Swing arm

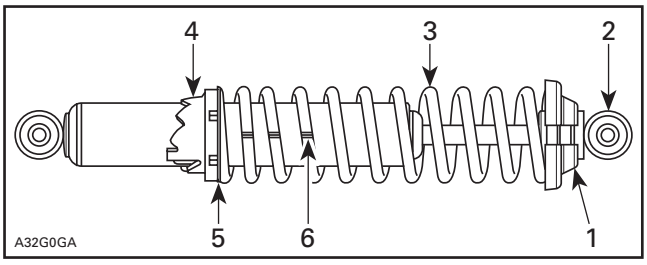
Clear swing arms in order to insert stabilizer bar in ball joint blocks.

Secure upper and lower control arms to swing arm with bolts. Secure with new M10 elastic stop nuts **no. 10**. Tighten inner and outer bolts.

Shock Absorber Assembling

For shock assembly, use shock spring remover tool (P/N 529 035 504)

Install cam **no. 14**, spring guide **no. 15** and spring **no. 13** on front shock absorber **no. 12**. Refer to following illustration.



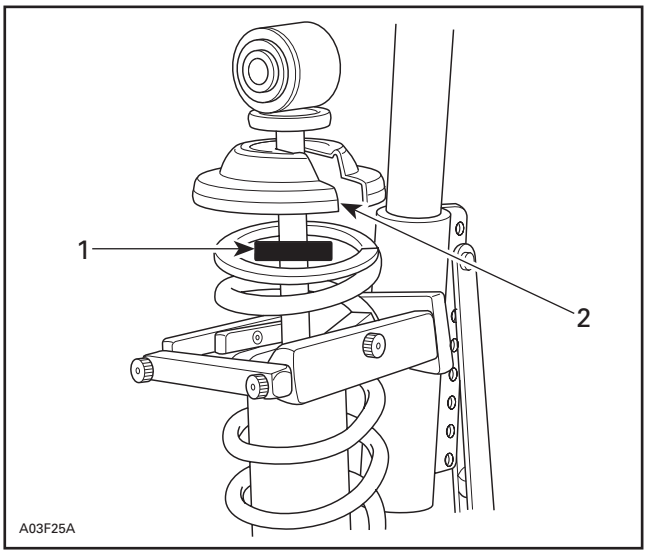
1. Spring stopper
2. Shock absorber
3. Spring
4. Cam
5. Spring guide
6. Color code at this end of shock absorber

Mount shock in spring remover tool and match spring with spring compressor.

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

Push down on handle until it locks in order to compress the spring.

Install spring stopper **no. 11** then carefully release handle.



1. Rubber bumper
2. Spring stopper

Install shock absorber assembly using new elastic stop nuts **no. 10** on top and on bottom.

Reinstall caps each side of the shock's upper bolt.

Install tie-rod **no. 16**.

Reinstall tuned pipe(s).

ADJUSTMENTS

After assembly, perform a ski alignment and a ski leg camber adjustment.

Refer to the *Ski-Doo Shop Manual* for proper adjustment procedures.

Reinstall tuned pipe(s).

860 502 500

1.	572 029 900	Half Bushing (4)	Demi-douille (4)
2.	390 402 300	Rivet 3/16 (4)	Rivet 3/16 (4)
3.	505 070 363	Threaded Soldered Plate (2)	Plaque soudée filetée (2)
4.	233 251 414	Flanged Elastic Nut M5 (4)	Écrou élastique à épaulement M5 (4)
5.	505 070 563	Stabilizer Bar	Barre stabilisatrice
6.	505 070 214	Upper Arm Assembly (2)	Barreau supérieur (complet) (2)
7.	732 610 019	Jam Nut M12 (2)	Contre-écrou M12 (2)
8.	415 068 400	Ball Joint (2)	Joint à rotule (2)
9.	505 070 402	Lower Arm Assembly (2)	Barreau inférieur (complet) (2)
10.	233 601 416	Elastic Stop Nut M10 (12)	Écrou d'arrêt élastique M10 (12)
11.	503 140 600	Spring Stopper (2)	Butée de ressort (2)
12.	505 070 236	Front Shock (2)	Amortisseur avant (2)
13.	505 070 393	Spring (2)	Ressort (2)
14.	503 183 700	Cam (2)	Came (2)
15.	503 187 500	Spring Guide (2)	Guide de ressort (2)
16.	506 151 190	Tie Rod (2)	Barre d’accouplement (2)
17.	505 070 121	Ball Joint Block (2)	Bloc rotule (2)