

BODY AND STEERING

Shock and Spring Chart 1995 Models

1995 INDEPENDENT FRONT SUSPENSION (IFS) SHOCK

Model Description	Model No.	Shock PN	Shock Description	Shock Maker	Spring Description	Spring PN
StarLite	0953427	7041284	Hyd	Gabriel	105#/in	7041261
Indy Lite	0953433	7041284	Hyd	Gabriel	105#/in	7041261
Indy Lite Deluxe	0953431	7041284	Hyd	Gabriel	105#/in	7041261
Indy Lite GT	0953133	7041284	Hyd	Gabriel	105#/in	7041261
Sport	0950443	7041284	Hyd	Gabriel	105#/in	7041261
Super Sport	0950743	7041388	G. B. Cam	Gabriel	105#/in	7041261
Sport Touring	0950243	7041284	Hyd	Gabriel	105#/in	7041261
Trail	0952761	7041288	G.B. Cam	Gabriel	105#/in	7041261
Trail Deluxe	0952262	7041288	G.B. Cam	Gabriel	120#/in	7041344
440	0952760	7041288	G.B. Cam	Gabriel	105#/in	7041261
440 SKS	0952560	7041282	G.B. Cam	Gabriel	120#/in	7041334
440 XCR	0951660	7041346	Gas IFP	Fox	120#/in	7041252
600 XCR	0951676	7041346	Gas IFP	Fox	120#/in	7041252
Classic	0952865	7041288	G.B. Cam	Gabriel	120#/in	7041334
500 Carb	0952764	7041288	G.B. Cam	Gabriel	120#/in	7041334
WideTrak GT	0952061	7041284	Hyd	Gabriel	105#/in	7041261
WideTrak LX	0952064	7041284	Hyd	Gabriel	105#/in	7041261
500 EFI	0952774	7041288	G.B./Cam	Gabriel	120#/in	7041261
500 EFI SKS	0952574	7041282	G.B. Cam	Gabriel	120#/in	7041334
500 EFI SKS PT	0952974	7041282	G.B. Cam	Gabriel	120#/in	7041334
XLT	0950756	7041285	Gas-Bag	Gabriel	105#/in	7041261
XLT SKS	0950556	7041285	Gas-Bag	Gabriel	105#/in	7041261
XLT SKS PT	0950956	7041285	G.B. Cam	Gabriel	105#/in	7041261
XLT SP	0956756	7041385	Gas IFP	Fox	50#/in	7041396
XLT Touring	0952857	7041288	G.B. Cam	Gabriel	120#/in	7041334
RXL	0956768	7041385	Gas IFP	Fox	75#/in	7041398
RXL Touring	0950869	7041282	G.B. Cam	Gabriel	120#/in	7041261
Storm	0950782	7041390	G.B. Cam	Gabriel-Select	160#/in	7041287
Storm SKS	0950582	7041393	G.B. Cam	Gabriel-Select	160#/in	7041287
Storm SKS PT	0950982	7041393	G. B. Cam	Gabriel-Select	160#/in	7041287

KEY: Hyd - Hydraulic Standard Shock Gas IFP - Gas Charged Internal Floating Piston, Fox Shock Select - Gabriel Select Adjustable Shock **NOTE:** All pounds referred to in the spring description column are $\pm 10\%$

BODY AND STEERING

Independent Front Suspension (IFS)

The IFS introduced on 1984 Indy models incorporated the following components improvements, making it lighter and more responsive.

A 5/8" heavy duty torsion bar is standard equipment on XLT SP, RXL and Storm Models. The Indy Storm radius rods incorporate bushings into the ends.

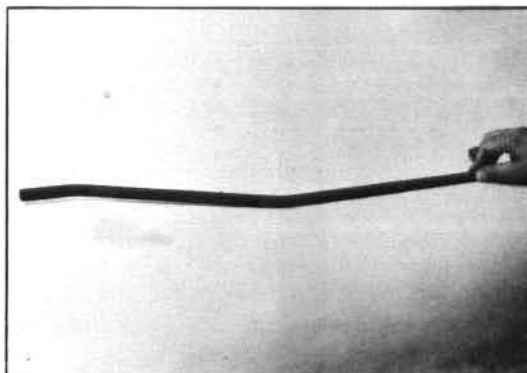
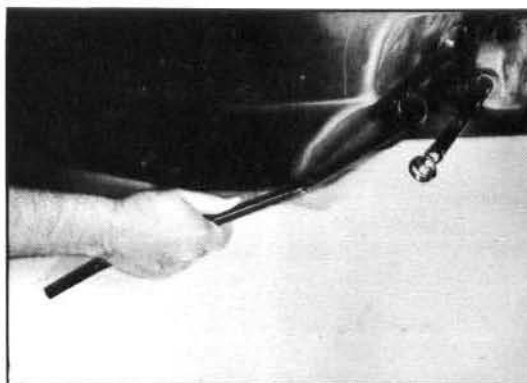
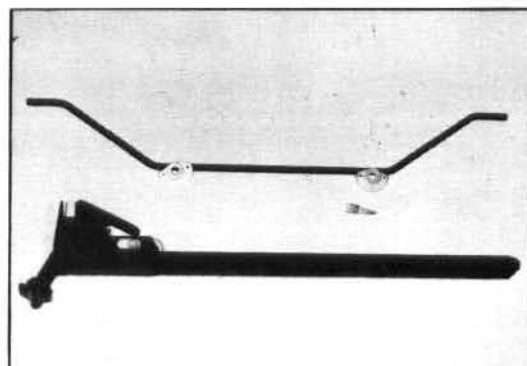
- One piece torsion bar
- Redesigned trailing arm

Torsion Bar Removal

4. Remove trailing arm assembly.
5. Using a small pin punch, tap out the rivet mandrels in the center of the torsion bar support rivets.
6. Using a 1/4" bit, drill out the center portion of the rivets.
7. Punch out the rivet body.
8. Remove support and torsion bar.
9. Repeat procedure for second torsion bar.

Torsion Bar Reinstallation

1. Rivet support in place using Polaris PN 7621449 rivets. **NOTE:** These high strength "Q" rivets are the only replacement rivets recommended for this application.
2. Reinstall torsion bar.
3. Reinstall trailing arm assembly.
4. Check camber and toe adjustments.



BODY AND STEERING

Steering - Independent Front Suspension

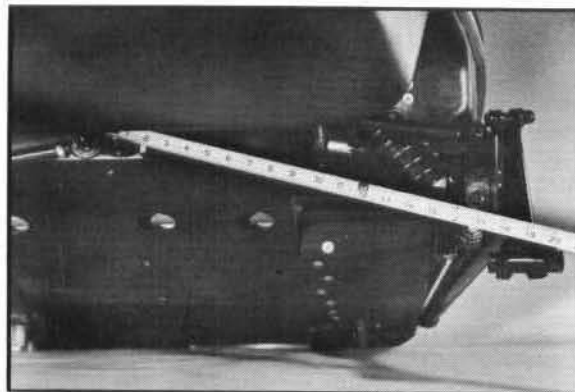
Checking Toe and Camber Adjustment

5. Make sure the track is properly aligned. This will be used as a reference point for toe out measurement.
6. Support the front of the machine 1-2" (2.5-5.1 cm) off the floor.
7. Remove skis and pivot bushings.
8. Disconnect torsion bar linkage.
9. Insert alignment bar through both spindles.

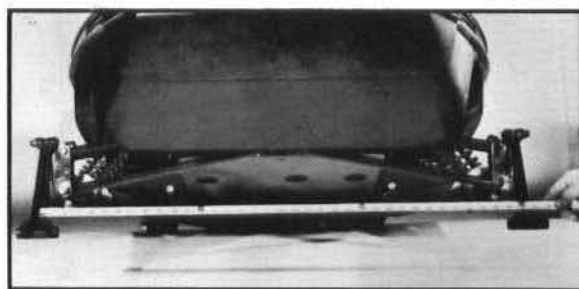
NOTE: If camber and toe adjustments are correct, the bar will slide freely through the spindles. Horizontal misalignment indicates toe adjustment is required. Vertical misalignment indicates camber adjustment is required.

If the alignment bar does not enter the opposite spindle freely:

1. Measure spindle to chassis centering. Both spindles should be an equal distance $\pm 1/8"$ (.3 cm) from the center of the chassis. This measurement is controlled by adjusting radius rod length.



2. Measure spindle to spindle center distance. Correct center distance on standard front ends is approximately 36 1/2" (93 cm) $\pm 1/4"$ (.6 cm). Correct center distance on wide front ends is approximately 38" (96.5 cm), 40" (102 cm), or 41" (104 cm). XTRA Models are approximately 43.5" (110 cm). This measurement is also controlled by adjusting radius rod length.



Toe Adjustment, Preliminary-Standard IFS

1. Loosen jam nuts (A) on each end of both tie rods.
2. Change toe adjustment as required for a free sliding fit of the alignment bar through the spindles.
3. Tighten jam nuts.

NOTE: If the alignment bar still will not slide through the spindles after toe adjustment is completed, it will be necessary to adjust camber.

