

Fig. 4-38



2. Remove the self-tapping screws securing the steering beam to the frame rail.
3. Remove the cap screws and lock nuts securing the steering arms to the drag link. Account for washers.
4. Loosen the jam nut securing each ball joint to the tie rod, then remove the ball joints from the tie rod. Slide the rod from the steering beam. Remove the jam nuts from the ball joints.

#### CLEANING AND INSPECTING

**NOTE:** Whenever a part is worn excessively, cracked, or damaged in any way, replacement is necessary.

1. Inspect the ball joints and tie rods for damaged threads or wear.
2. Inspect the ball joints and tie rods for cracks or unusual bends.
3. Wash the ball joints in parts-cleaning solvent. Dry with compressed air. Inspect the ball joint grease ports for wear. Apply a low-temperature grease to the ball joints.

#### WARNING

Always wear safety glasses when using compressed air.

#### ASSEMBLING AND INSTALLING

1. Slide the tie rod through the steering beam; then insert the jam nuts on the ball joints and thread the ball joints onto the tie rod.

**NOTE:** Each jam nut and ball joint is either a right-hand or left-hand thread; therefore, each can only be installed on one end of the tie rod. The right-hand thread is the inside ball joint and jam nut.

2. Secure the tie rod to the ball joints on the forked end of the drag link with a cap screw, washers, and lock nut. Tighten to 2.8 kg-m (20 ft-lb).

3. Secure the steering arms to the drag link with cap screws, lock nuts, and washers. Tighten to 4.2 kg-m (30 ft-lb).
4. Position an O-ring and washer on each ball joint assembly (threads coated with grease Lubriplate #609). Install the ball joints on top of the spindles (for the 700-L670/700 or EP5000 or EP7) or on the bottom side of the spindles (for the 600 or EP7 LE). Then secure to the spindles with lock nuts. Tighten to 1.3 kg-m (10 ft-lb).

**NOTE:** On the 600 or EP5000 or EP5000 or EP7, the ball joints must be installed on top of the spindle arms.

Fig. 4-39



**NOTE:** On the 600 or EP7 LE, the ball joint must be installed on the bottom side of the spindle arm.

Fig. 4-40



5. Place the steering knuckle into position and secure with self-tapping screws.
6. Adjust the alignment (see 5B Alignment in this section).
7. Apply blue Lubriplate #702 to the jam nut threaded into and against the jam nut against the tie rod to 1.7-2.7 kg-m (12-17 ft-lb).

6

#### WARNING

Resisting to lock the jam nuts against the tie rod may cause loss of drivability control and possible personal injury.

### Spindle (500 or EP/580 or EPV 600 or EP)

#### REMOVING

1. Position the front of the automobile up on a safety stand.
2. Remove the tie rod tie in this section.
3. Remove the lock nut and cap screws securing the shock absorber to the spindle. Account for all mounting hardware.

Fig. 4-41



4. Remove the lock nut securing the tie rod ball joint to the spindle (account for the washer and the O-ring); then remove the ball joint from the spindle.

Fig. 4-42



5. Remove the two cap screws and lock nuts securing the spindle to the suspension arms. Account for all mounting hardware.

Fig. 4-43



Fig. 4-44



6. Inspect the removed ball joint in place. If damaged, worn, or unusual bends are noted, insert the jam nut; then remove the ball joint from the tie rod.

#### INSPECTING

**NOTE:** Whenever a part is worn excessively, cracked, or damaged in any way, replacement is necessary.

1. Inspect the spindle for excessive wear, cracks, bends, or irregularities.
2. Inspect all welds for cracking.
3. Inspect the suspension arm bushings and axle area for wear.
4. Secure the spindle in a vise. Rotate the spindle clockwise and counterclockwise. The movement should be smooth and free. If the spindle movement is rough or binding, grease the spindle with a good low-temperature grease. Remove the spindle. If the movement continues rough, replace the spindle.

**NOTE:** When greasing the spindle, use enough grease so that it can be seen coming out at both the top and bottom of the spindle.

# Pantera 580 Repair Manual

**Eric Michael Mihalyi, Jay Storer**



## **Pantera 580 Repair Manual:**

**Cars & Parts** ,1983     *Arctic Cat Snowmobile 90-98* Penton Staff,2000-05-24 Arctic Cat Cougar El Tigre EXT EFI EXT 550 EXT 580 EXT 600 Pantera Panther Powder Special Prowler 440 ZL 500 ZR 580 and ZR 600 models manual     **Road and Track** ,1984     **Road & Track** ,1984-02     *Thomas Register* ,2004     The Moscow Times Business Review ,2000     Popular Science ,1950     **Ulrich's International Periodicals Directory** Carolyn Farquhar Ulrich,1999     *1985 Jag, Panther and Pantera Service Manual* Arctco, Inc,1984     1986 Arctic Cat AFS Models Service Manual Arctco, Inc,1985     Ford Granada & Scorpio Matthew Minter,Chris Rogers,1995     **Ford Pick-ups & Bronco Automotive Repair Manual** Mark Christman,John B. Raffa,John Harold Haynes,1996 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer     **Ford Pick-ups and Bronco** Dennis Yamaguchi,John Harold Haynes,2000     **Clymer Polaris Ranger 800, 2010-2014** Haynes Publishing,2017-10-25 The Clymer Polaris Ranger 800 2010 2014 Repair Manual features complete maintenance and repair information for the Polaris RZR 800 built during model years 2008 2014 More than 700 Photos guide the reader through every job Where possible tools developed by the writers during the disassembly and reassembly of the machine are described in the text to save the reader from spending hundreds of dollars on factory tools Each manual features quick reference data plus chapters on Troubleshooting Lubrication maintenance and tune up Engine top end Engine lower end Clutch and drivebelt system Transmission Engine management system Electrical system Cooling system Wheels hubs and tires Front suspension steering and front gearcase Rear suspension and rear gearcase Brakes Body Wiring diagrams     Chilton's Ford Ranger Pick-ups 2000-05 Repair Manual Eric Jorgensen,Alan Ahlstrand,2007-03-02 Covers U S and Canadian models of Ford Ranger and Mazda B2300 B2500 B3000 B4000 pick ups     **93 - 97 Ford Ranger Repair Manual** , This is the PDF service repair manual for the Ford Ranger 1993 1997 The same manual autoshops and dealers reference to This isnt your everyday off the shelf autostore manual This manual is guranteed to be better than any autostore manual Detailed drawings Detail diagrams Detail step by step instructions Covers more than standard manuals Available as PDF no more damage manuals Chapters include Body Frame and Mounting Engine Suspension Driveline Brakes Transmission Clutch Exhaust system Fuel system Steering Climate Control system Instrumentation and Warning systems Battery and charging system Audio system Lighting Electrical Power supply     *Chilton's Ford* ,1991     Mitsubishi Pajero Automotive Repair Manual Jeff Killingsworth,John Harold Haynes,2012-09-01 This is a maintenance and repair manual for the DIY mechanic The book covers the Mitsubishi Pajero 1997 2009 models     **Motor's truck & tractor repair manual** Harold F. Blanchard,William Verner,1954     **Chilton's Ford Pick-Ups/Expedition/Navigator 1997-03 Repair Manual** Eric Michael Mihalyi,Jay Storer,2007-05-09 Covers U S and Canadian models of Ford F 150 1997 thru 2003 and F 250 Pick ups 1997 thru 1999 Ford Expedition 1997 thru 2002 and Lincoln Navigator 1998 thru 2002 2 and 4 wheel drive gasoline engines

Does not include diesel engine F 250HD Super Duty F 350 or information specific to Lightning models

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