

Part No. P34601

TUNE UP KIT

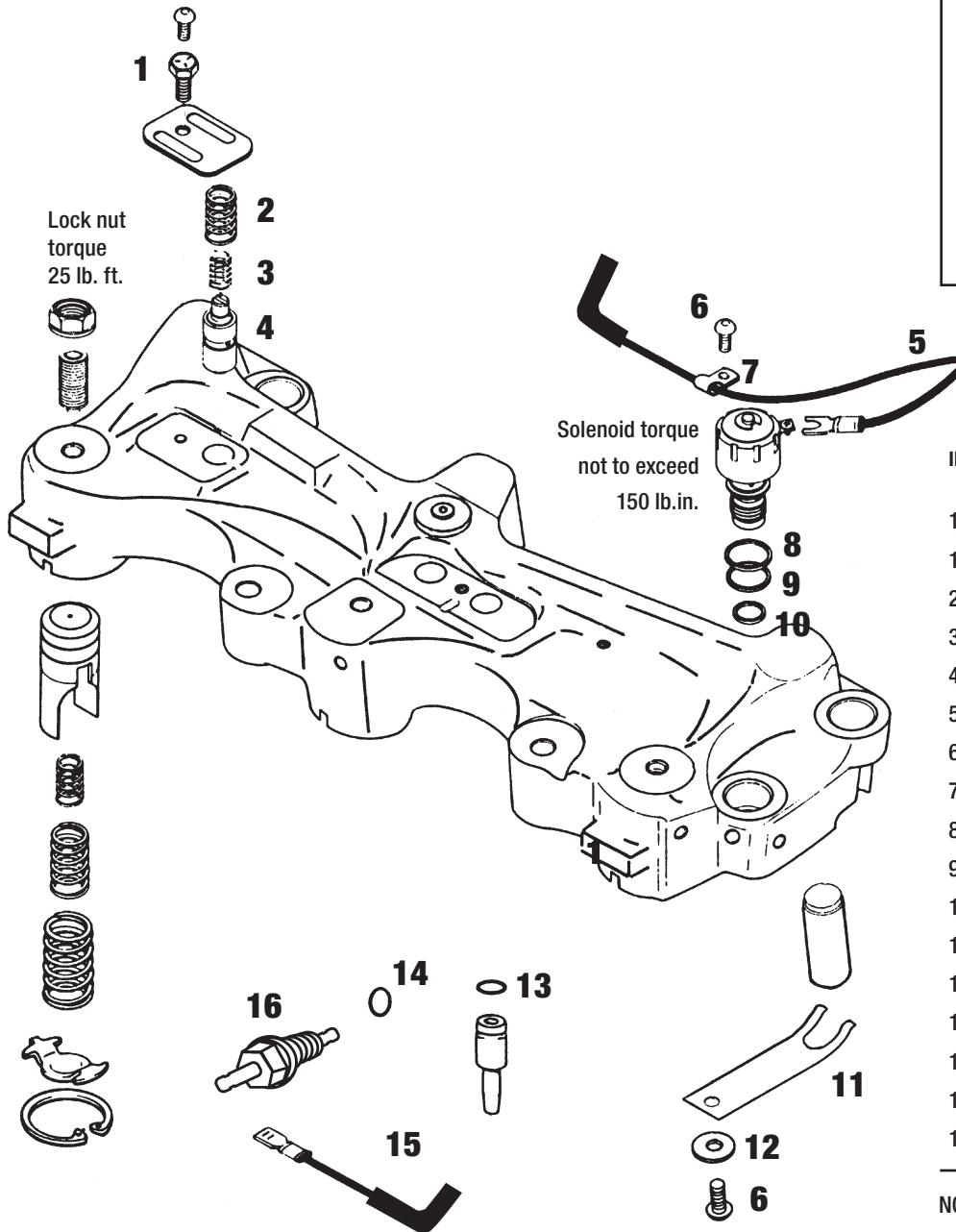
Engine Application:

**Caterpillar® 3406,
3406B, 3406C**

Fits Models:

Pacbrake P-36,P-37

**Jacobs C-346A, C-346B,
C-346C, C-346D**



ILLUS.#	PART #	DESCRIPTION	QTY.
1	P01722	Buttonhead Screw	4
1	P01492	Capscrew	4
2	P11434	Spring-Outer	6
3	P11435	Spring-Inner	6
4	P11930	Control Valve	6
5	P34648	Harness	2
6	P03790	Capscrew	8
7	P14908	Wire Clamp	2
8	P01081	Seal Ring - Upper	2
9	P01082	Seal Ring - Centre	2
10	P01083	Seal Ring - Lower	2
11	P13158	Spring - Flat	6
12	P01030	Retainer	6
13	P02411	O-Ring	2
14	P34654	O-Ring	2
15	P34656	Harness	2
16	P34655	Bullet Connector	2

NOTE: Valve cover gasket is not supplied

Pacbrake

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PACBRAKE®
ENGINE & EXHAUST BRAKES

Part No. P34601

TUNE UP KIT

Installation Instructions

Removal Of The Housings From The Engine

- A) Clean the engine around both valve covers and remove both.
- B) Loosen the slave piston adjusting screw lock-nuts.
- C) Remove both solenoid wires and discard.
- D) Remove the support base hold down bolts / capscrews.
- E) Remove the 4 stud nuts, then remove both housings.

Disassembly And Assembly Of The Brake Housings

- A) Place the housings on a clean work bench.
Note: When removing all parts keep them in order of their original location for assembly later.
- B) Remove the slave piston adjusting screws and inspect the plungers for spring pressure or damage.
- C) Using the proper tool, remove both solenoids. Adjustable pliers can damage the coil. Remove and discard seals.
- D) Remove the control valve covers. **Use caution** and wear eye protection, as the covers are under spring pressure! Remove the springs and control valves. The control valves should slide out easily using needle nose pliers or a magnet. If not, inspect the bore and control valve for damage. Discard control valves, springs, and screws.
- E) Turn the housings over and remove the master piston springs. Remove the master pistons. The pistons should slide out easily. If not, inspect the bore and piston for damage. Discard the springs washers and screws.
- F) **Slave piston removal.**
Use caution and wear eye protection, as the slave piston return springs are under extreme pressure! Use a "C" clamp and a socket slightly smaller than I.D. of the slave fork. Position the socket between the legs of the fork. Using the "C" clamp, compress the retainer just enough to remove the spring pressure, then remove retaining ring. Slowly back off the "C" clamp. Remove the retainer, 3 springs, and slave pistons. The slave pistons should slide out easily. If not, inspect the bore and piston carefully for damage. Removal of the slave piston assemblies is for cleaning and inspection only.
- G) Wash all the housings and parts in clean OSHA approved solvent, keeping the parts in relation to their original position. Wash the parts individually to avoid damage by contact with hardened surfaces.
- H) Assemble all parts into the housing using clean engine oil in the reverse procedure. Make sure all retaining rings are seated in their groove. During solenoid installation, it is important not to twist or cut the seals. Lubricate the seals with clean engine oil and torque to 150 lb in.
- I) Clean all gasket surfaces.
- J) Install on engine as per manufactures specifications.

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