



Parts Manual

Model T450A /B Engine Brakes

**For Cummins
94N14 Series Engines**

TecBrake
P.O. Box 27822
Houston, Texas 77227

TecBrake Engine Brake Model T450A/B For Cummins 94N14 Series Engines

The TecBrake T450A/B engine brake may be installed on popular versions of the Cummins 94N14 series engine. It can **not** be installed on the Cummins 855, 88NT, 91N14 STC, 91N14 Celect or N14Plus model engines. It should only be installed on engines whose CPL numbers are included in the Application Chart.

IMPORTANT: Information required to order engine brake kits.

ENGINE IDENTIFICATION:

Obtain the engine's CPL number. Refer to the TecBrake Application Guide, which lists all Cummins engines on which the T450A/B engine brake may be installed.

ADJUSTING SCREW SELECTION:

The engine CPL number determines which adjusting screws are required for the installation. It is important that the proper adjusting screws be selected and installed. Use of the wrong screws or an incorrect lash adjustment may cause improper brake operation and engine damage.

ADJUSTING SCREWS INCLUDED IN KIT:

The T450A/B engine brake kit (Part No. TB960017) is shipped with adjusting screws (part No. TB900022, color code "green") already installed in the brake housings. This configuration is correct for some installations.

Six additional adjusting screws (Part No. TB900023, color code "brown") are included in the Housing Assembly. If Application Guide specifies "brown" adjusting screws, they must be installed in place of "green" screws over the exact same location. **DO NOT** exchange or mix selected adjusting screws within cylinders.

The two adjusting screw part numbers included in the engine brake kit cover all engine configurations.

APPLICATION CHART			
CPL NO.	ENGINE MODEL	ADJUSTING SCREW PART NO.	COLOR
1807	94N14	TB900022	GREEN
1809	94N14	TB900023	BROWN
1844	94N14	TB900023	BROWN
1852	94N14	TB900023	BROWN
1896	94N14	TB900023	BROWN
1987	94N14	TB900022	GREEN
2003	94N14	TB900023	BROWN

ENGINE BRAKE KIT CONTENTS AND OPTIONAL PARTS

PART NO.	DESCRIPTION	QTY./ENG.
TB960017	BRAKE KIT, W/OUT CTRL. GRP.	
TB940058	KIT,LITERATURE	1
TB940057	HOUSING ASSEMBLY	3
TB940006	ATTACHING PARTS GROUP	1
TB900003	FEELER GAUGE (0.023")	

Indented part numbers are included in parts under which they are indented.

ADJUSTING SCREW

SCREW QTY/ PART NO.	HSG.	COLOR CODE	LASH SETTING
TB900022	2	Green	0.023"
TB900023	2	Brown	0.023"

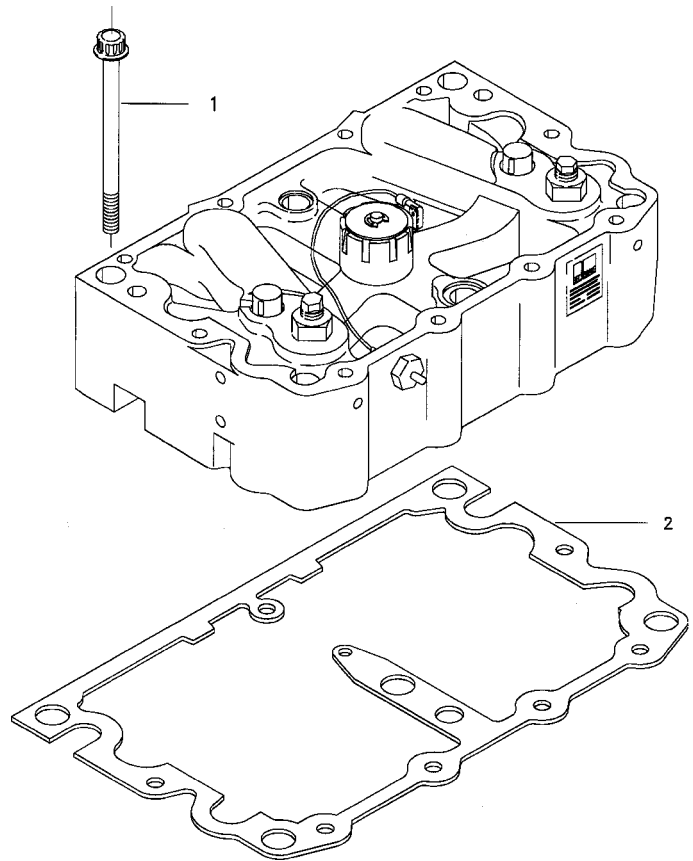
MODEL T450A/B HOUSING ASSEMBLY Part No. TB940057

REF.	PART NO.	DESCRIPTION	QTY/HSG.
1	TJ011284	RING, RETAINER	2
2	TJ011252	COVER, CONTROL VALVE	2
3	TJ011253	SPRING, CTRL. VALVE, OUTER	2
4	TJ007500	SPRING, CTRL. VALVE, INNER	2
5	TJ011251	COLLAR, CONTROL VALVE	2
6	TJ011930	CONTROL VALVE	2
7	TB900022	ADJUSTING SCREW (GREEN)	2
7	TB900023	ADJUSTING SCREW (BROWN)	2
8	TB909354	NUT, JAM	2
9	TJ016440	SOLENOID VALVE (12 VOLT)	1
10	TJ014619	HARNESS, SOLENOID	1
11	TJ001081	SEAL RING, UPPER	1
12	TJ001082	SEAL RING, MIDDLE	1
13	TJ001083	SEAL RING, LOWER	1
14	TB917366	TERMINAL ASSEMBLY	1
15	TB900025	MASTER PISTON (3/4")	2
16	TJ018792	SPRING, FLAT	2
17	TJ001030	WASHER, PLAIN	2
18	TJ001492	CAPSCREW	2
19	TB900024	SLAVE PISTON ASSEMBLY	2
20	TB900026	SPRING, SLAVE PISTON, OUTER	2
21	TB900027	SPRING, SLAVE PISTON, INNER	2
22	TB924849	RETAINER, SPRING	2
23	TB902023	RING, RETAINER	2

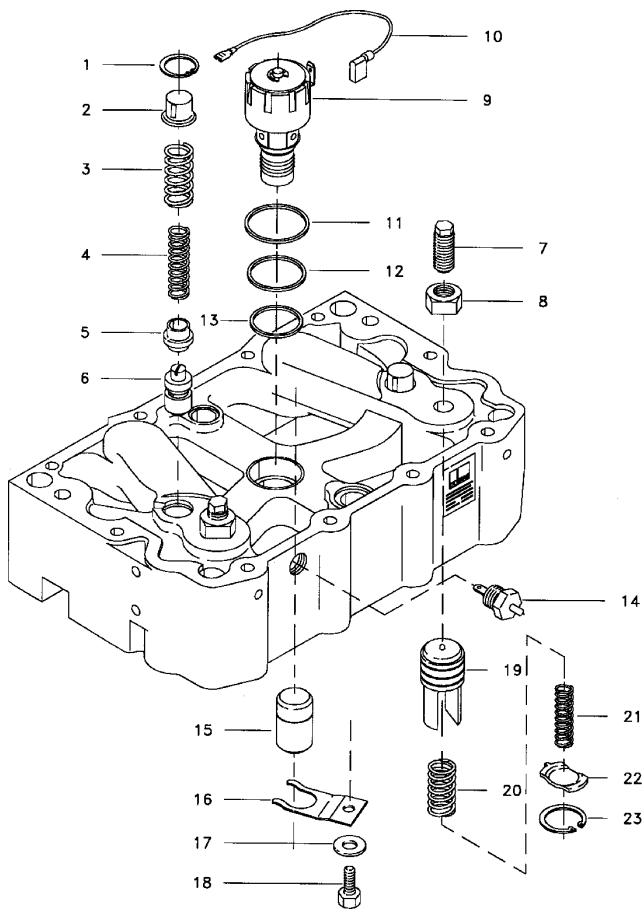
ATTACHING PARTS GROUP

Part No. TB940006

REF.	PARTNO.	DESCRIPTION	QTY./ENG.
1	TJ016828	SCREW (12 PT.)	18
2	TJ016846	GASKET, BRAKE	3



ATTACHING PARTS



HOUSING ASSEMBLY

CONTROL GROUP- CELECT ENGINES
Part No. TB940008

REF.	PART NO.	DESCRIPTION	QTY./ENG.
1	TJ016264	SWITCH,DASH (W/GOLD)	1
2	TJ001305	PLATE, SWITCH, ON-OFF	1
3	TJ003278	TERMINAL (FAST ON)	5
4	TJ002957	SWITCH, TOGGLE, 3 POSITION	1
5	TJ002959	PLATE, SWITCH (3-1-2)	1
6	TJ016933	RELAY	1
7	TJ017593	BASE, RELAY, W/HARNESS	1
8	TJ017416	HARNESS, ENGINE	1
NI	TJ018187	HARNESS, SELECTOR SW.	1
NI	TJ006833	TIE, CABLE	8
NI	TJ003707	SHRINK TUBE	5
NI	TJ001534	DIODE	1

Control Group not included in T450A/B Kit; must be ordered separately

Indented part numbers are included in the parts under which they are indented.

NI.- Not Illustrated.

MAJOR TUNE-UP KIT
Part No. TJ019305

PART NO.	DESCRIPTION	QTY./KIT
TJ001030	WASHER, PLAIN	6
TJ001081	SEAL, RING UPPER	3
TJ001082	SEAL RING, MIDDLE	3
TJ001083	SEAL RING, LOWER	3
TJ001492	CAPSCREW	6
TJ011251	COLLAR, CONTROL VALVE	6
TJ011253	SPRING, CTRL. VALVE, OUTER	6
TJ007500	SPRING, CTRL. VALVE, INNER	6
TJ014619	HARNESS, SOLENOID	3
TJ017368	HARNESS, SOLENOID	3
TJ018792	SPRING, FLAT T450/T455	6
TJ017412	SPRING, FLAT (440, 440A)	6
TB900028	SPRING, FLAT (T440/A)	6
TJ011930	CONTROL VALVE	6
TJ016846	GASKET, BRAKE	3
TJ011284	RING, RETAINING	6
TJ011252	COVER, CONTROL VALVE	6

