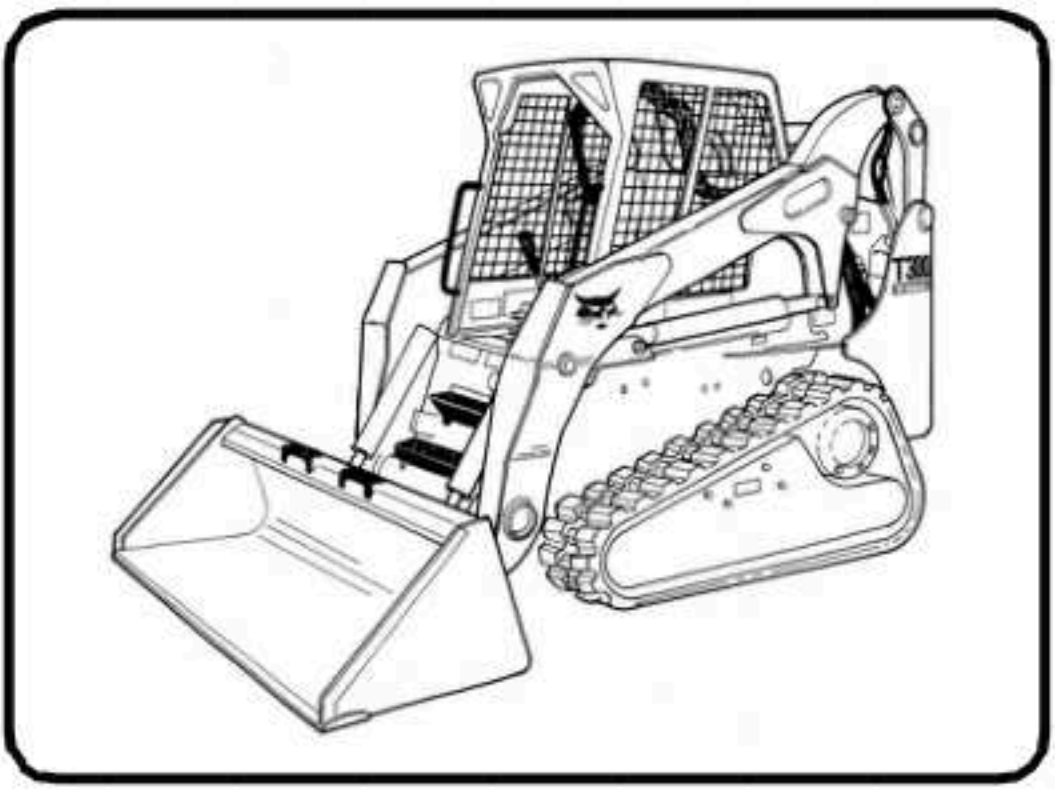
Bobcat®

Service Manual
T300 Compact Track Loader

S/N 532011001 & Above
S/N 532111001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6904168 (3-09)

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ACS- ADVANCED CONTROL SYSTEM
AHC- ADVANCED HAND CONTROL SYSTEM
BICS™-BOBCAT INTERLOCK CONTROL SYSTEM

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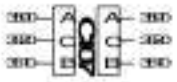
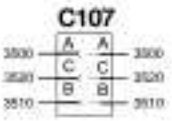
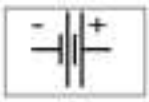
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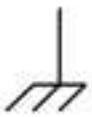
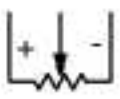
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Glossary Of Electrical Symbols

SYMBOL	DESCRIPTION
	CONNECTIONS
	CONNECTOR - Harness - Used for connecting 2 harnesses together or a harness to a component. The connector can vary from a single pin to any number of pins (Example: 3 pin connectors shown). The connector pins can be numbered alphabetical (shown) or numerical (1, 2, 3 etc.). The harness wires numbers are called out next to the connector (Example: 3500).
	The connector number is called out next to the connector (Example: C107). These connector numbers are used for schematic identification only and do not appear on the harness or connector.
	COMPONENTS
	BATTERY - Used for supplying and storing electrical power for the machine.
+	POSITIVE ELECTRICAL CIRCUIT - Indicates positive battery circuit.
-	NEGATIVE ELECTRICAL CIRCUIT - Indicates battery ground circuit.
	ALTERNATOR - Used to create the electrical current to supply voltage to the battery and components.
	STARTER - Uses battery current to start the machine engine.
	GROUND - Used to represent an external ground connection.

SYMBOL	DESCRIPTION
	COMPONENTS
	GROUND - Frame - Used to represent an component that is internally grounded.
	LIGHT -
	SWITCH - Single Pole - Single Throw (ON-OFF) Normally Open
	SWITCH - Single Pole - Single Throw (ON-OFF) Normally Closed.
	SWITCH - Single Pole - Double Throw (ON-OFF-ON) - This switch can be in any of three positions. (Some switches are spring activated to return them to a certain position when released.)
	SWITCH - Double Pole - Single Throw (ON-OFF) Open and Closed positions will be specified depending on switch application.)
	SWITCH - Double Pole - Double Throw (ON-OFF) Open and Closed positions will be specified depending on switch application.
	POTENTIOMETER - Variable resistance - Provides variable resistance.

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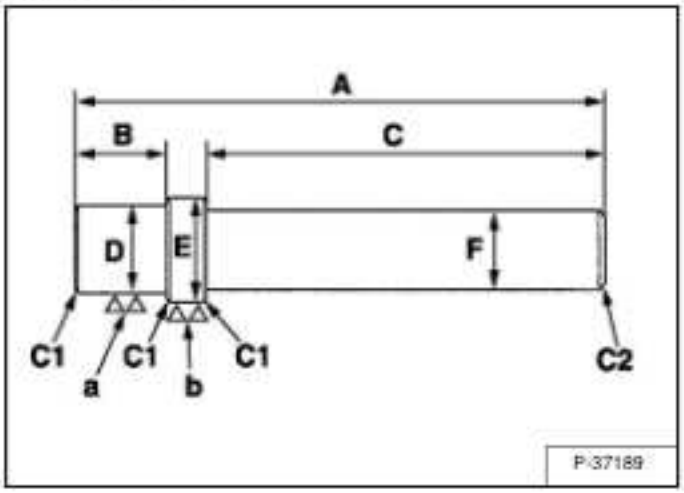
Piston And Connecting Rod - Servicing

The Connecting Rod Alignment Tool is not provided. Order this tool using the code below.

Code No:	07909-31661
Application:	Use for checking the connecting rod alignment.
Application Range:	Connecting rod big end I.D. 30 - 75 mm (1.18 - 2.95 in. dia.) Connecting rod length 65 - 330 mm (2.56 - 12.99 in.)

The Small End Bushing Replacing Tool can be made using the dimensions below. One set of dimensions is for the press out tool and one for press fit.

Figure 70-90-6



Small End Bushing Replacing Tool

Application: Use to press out and to press fit the small end bushing in the connection rod.

(Press out)

A	157 mm dia. (6.181 in.)
B	14,5 mm (0.571 in.)
C	120 mm (4.7244 in.)
D	30,101 - 30,156 mm dia. (1.1851 - 1.187 in. dia.)
E	33,075 - 33,100 mm dia. (1.3021 - 1.3031 in. dia.)
F	20 mm (0.7874 in.)
a	0,0000063 mm (0.00025 in.)
b	0,0000063 mm (0.00025 in.)
C1	Chamfer 1,0 mm (0.039 in.)
C2	Chamfer 2,0 mm (0.079 in.)

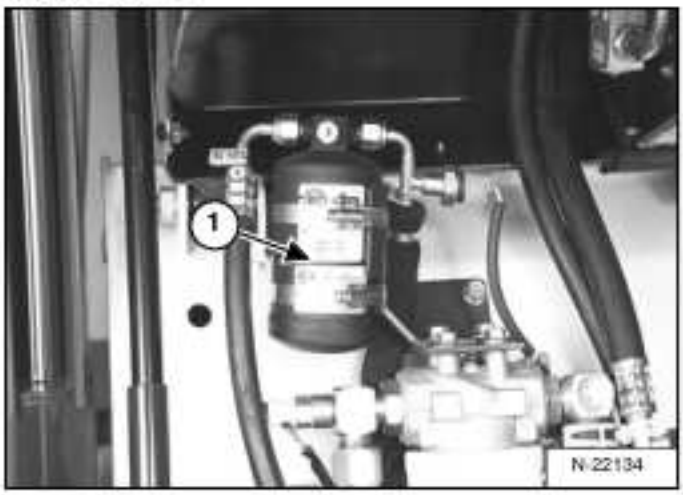
(Press fit)

A	157 mm dia. (6.181 in.)
B	14,5 mm (0.571 in.)
C	120 mm (4.7244 in.)
D	30,101 - 30,156 mm dia. (1.1851 - 1.187 in. dia.)
E	42,000 mm dia. (1.6535 in. dia.)
F	20 mm (0.7874 in.)
a	0,0000063 mm (0.00025 in.)
b	0,0000063 mm (0.00025 in.)
C1	Chamfer 1,0 mm (0.039 in.)
C2	Chamfer 2,0 mm (0.079 in.)

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HVAC Repair And Leaks

Figure 80-30-3



Whenever the A/C system is opened to the atmosphere or there has been a leak in the system, the receiver/drier (Item 1) **[Figure 80-30-3]** must be changed.

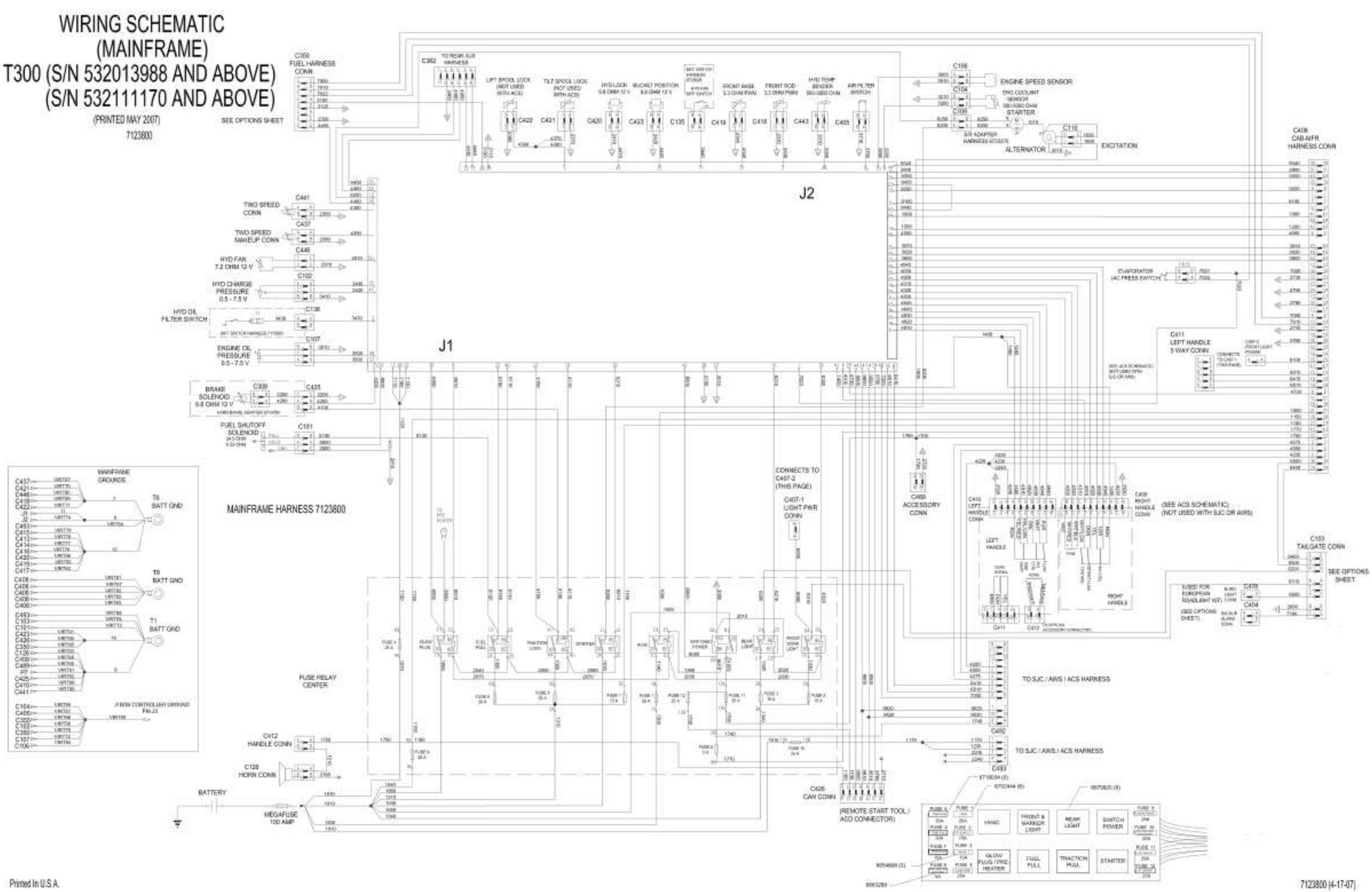
Never leave hose fittings, compressor fittings or components uncapped while working on the A/C system.

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WIRING SCHEMATIC
(MAINFRAME)
T300 (S/N 532013988 AND ABOVE)
(S/N 532111170 AND ABOVE)

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