J.I. Case
Operator's Manual
580CK
Series B Shuttle Tractor

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**Engine Lubricating System**

Oil Pressure ........................................ 24 to 32 PSI (165 to 221 kPa)
Engine Warm and Operating at Rated Engine Speed.

Oil Capacity ............................ With Filter, 5 U.S. Quarts (4.7 litres)
Without Filter, 4 U.S. Quarts (3.8 litres)

Type System .......................................... Pressure Spray Circulation

Oil Pump .................................................. Gear Type

Oil Filter .................................................. Spin on Type

**Fuel System**

Fuel Tank Capacity ............................... 22 U.S. Gallons (83.3 litres)

Carburetor ................................. Zenith With Magnetic Solenoid Shut-Off

Flange Size ............................................ 1-1/4” (31.7mm)

Fuel Gauge ................................. Electric, Located in Instrument Panel

Fuel Strainer ................................. In Sediment Bowl Under Fuel Tank

Fuel Filter ........................................ Mounted to Fuel Strainer Head

**Distributor Ignition**

Contact Point Gap ..................................................... .020 Inch (0.508mm)

Jogwell Angle ........................................................... 70°

Spark Plugs ................................................ Prestolite 18 8

Plug Gap .......................................................... .025 Inches (0.635mm)

Thread .......................................................... 18 mm

Shank Length .................................................... 1/2 Inch (12.7mm)

**Engine Timing**

Static Timing (188G Power Shuttle) ........................................... TDC

Static Timing (159G Mechanical Shuttle) ............................. 3° ATDC

Running Timing (188G Power Shuttle) ......... Engine running at Rated Engine Speed: 34° BTDC

Running Timing (159G Mechanical Shuttle) Engine running at Rated Engine Speed: 30° BTDC
TORQUE TUBE FLUID CHANGE-LEVEL CHECK

Change Interval ........................................................................... 1000 Hours

Check the fluid level with the dipstick every 50 hours or weekly. The
dipstick is located on the R.H. side of the torque tube cover and to the
front of the gear shift lever. NOTE: Make sure the tractor is setting
on a level surface to insure an accurate fluid level check.

Once each year or every 1000 hours, remove the drain
plug and drain the torque tube
case. Refill case with new
Case TCH fluid, refer to Lubri-
cation Chart on Page 18 for
fluid capacity.

After refilling torque tube
case, start the engine and run
at idle speed to charge the
system with fluid and to have
the fluid up to operating tem-
perature. IMPORTANT: After
device has run for a few minutes, shut the engine off, check the
fluid level immediately after shutting the engine down. Add enough
Case TCH fluid to bring the fluid up to the full mark on the dip­
stick if necessary.

TORQUE TUBE BREATHER

The torque tube hydraulic fluid reservoir has a breather with a
washable filter screen. Every 200 hours, remove the breather and
the snap on cover. Wash the element thoroughly in clean mineral
spirits or replace if faulty. Blow clean with light air pressure and
allow to dry before installing. The breather is located on top of the
power shuttle valve just below the fuel tank on the Power Shuttle
Tractor, Figure 12 and on the range shift cover on the Mechanical
Shuttle Tractor, Figure 13.
REPLACING FAN BELT

1. Loosen the alternator adjusting and mounting bolts, then swing the alternator inward, and remove fan belt.
2. Slip the new fan belt over the fan, and onto the fan pulley, crankshaft pulley and the alternator pulley.
3. Tighten the new fan belt to 60 lbs. (267 N) tension or 1/2 inch (12.7mm) deflection. NOTE Readjust new installed belt after 50 hours of operation as described in belt adjustments. CAUTION When using pry bar to put tension on the fan belt, apply pressure only to the front housing cast area of the alternator.

Figure 48
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NOTE: The CASE CORPORATION reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.