

Kubota B-Series - Changing Oils and Filters

(Pictures are of a B7800, concepts apply to other models)

Before performing any of the following operations, be sure that engine is stopped and has been given adequate time to cool down

Changing Engine Oil

1. Remove drain plug from bottom of the engine while engine is still somewhat warm (allow plenty of time for engine to cool down) to drain oil into oil pan.
2. Put drain plug back in when oil has drained
3. Fill with new oil to the higher groove of the dipstick.



Replacing The Engine Oil Filter

1. Make sure that engine is off and has been given sufficient time to cool down
2. Remove old oil filter
3. Apply a small amount of engine oil to the rubber seal of the new filter
4. Tighten filter quickly until it touches the mounting surface
5. Tighten filter an additional $\frac{1}{2}$ turn
6. When a new filter is installed, engine oil typically decreases a little. Ensure that oil does not leak through the seal of the filter, then refill oil as needed.



Changing Air Cleaner Primary Element

1. Remove air cleaner cover by undoing the hook and then rotating the cover clockwise to take it off.

2. Cleaning the filter:

If filter only contains dust: Blow compressed air (under 30psi, 205kPa, 2.1kgf/cm²) from the inside of the filter to clean it.

If filter contains carbon or oil: Soak filter in detergent for 15 minutes, wash and rinse with water and let it air dry. When filter has completely dried, use a light to check for tears or holes.

3. Reinstall air cleaner cover (make sure that arrows are properly aligned).

Replace air filter yearly, or after every 6th cleaning, whichever comes first.

Also make sure evacuator valve is not blocked.

Evacuator valve should be opened once a week, or daily when used in a dusty place in order to get rid of larger dust particles.



Cleaning Fuel Filter

Make sure that you are in a clean area to do this service and that the fuel tank is less than half full

1. Loosen and take off filter bowl
2. Rinse filter bowl with kerosene
3. Remove filter and dip it in kerosene to rinse
4. Put filter assembly back together and make sure to keep out dust and dirt
5. Bleed fuel system <[How to Bleed Fuel System](#)>



Changing Transmission Fluid

1. Allow engine sufficient time to cool down
2. Remove drain plugs underneath transmission cases and drain oil into oil pan
3. Put plugs back in after oil has drained
4. Clean the transmission strainer (see "Cleaning Transmission Strainer" below)
5. Fill with new Kubota Super UDT up to the upper groove on dipstick
6. Start engine and let it run for a few minutes
7. Stop engine, check oil level, and fill as needed

Oil Capacity – 3.83 gallons (14.5 liters)

Do not use tractor right after changing transmission fluid. Run the engine at medium speed for a few minutes prior to use

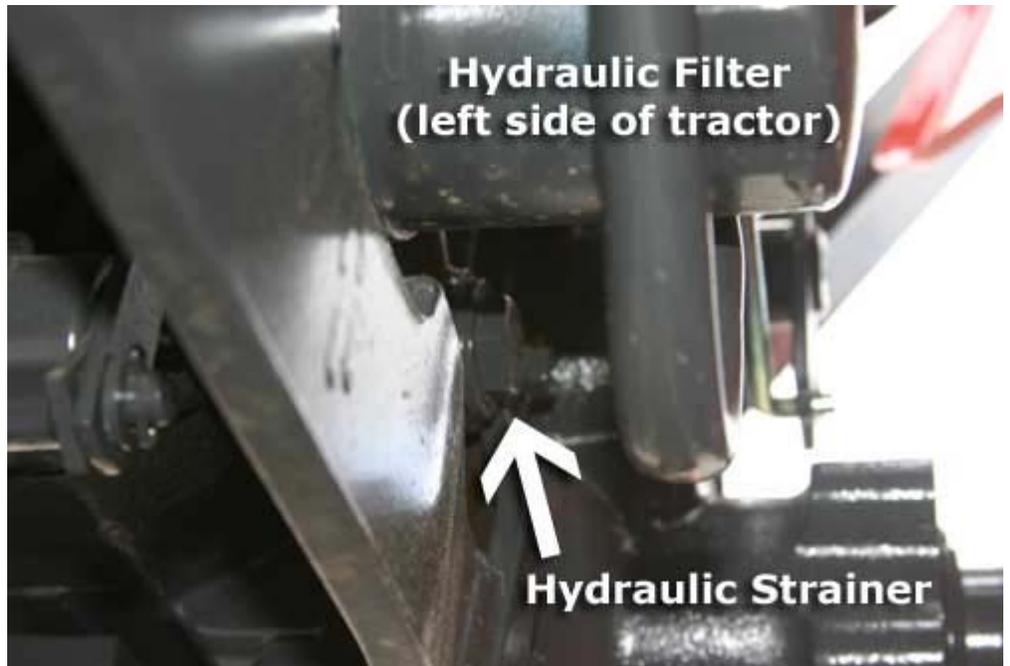
If you are unable to raise the 3 point hitch by using the hydraulic control lever after long term storage or after changing transmission oil, turn steering wheel to the right and left several times in order to bleed air from system





Cleaning Transmission Strainer

1. Remove strainer
2. Completely disassemble strainer
3. Rinse strainer with nonflammable solvent to clean off filings
4. Reassemble and install strainer



Replacing Transmission Oil Filters

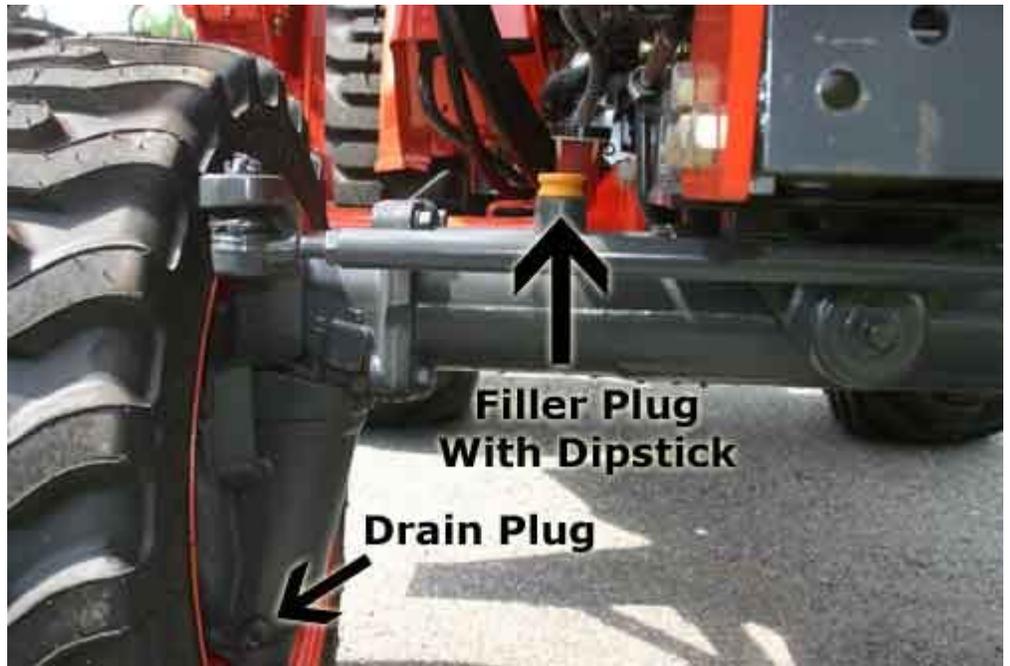
1. Take drain plugs (4) out of the bottom of the transmission cases
2. Drain oil
3. Put drain plugs back in
4. Apply a small amount of clean transmission oil to the rubber seal of the new filters
5. Tighten filter quickly until it touches the mounting surface
6. Tighten filter an additional $\frac{1}{2}$ turn
7. Refill transmission oil after filters have been replaced
8. Run engine for a few minutes, stop engine, and refill transmission oil as needed
9. Check seals of filters for leaks



There are two transmission filters; both are at the same place on the tractor, one on the left, and one on the right.

Changing Front Axle Case Oil

1. Park tractor on stable, level surface
2. Remove right and left drain plug and filling plug
3. Drain oil
4. Reinstall drain plugs
5. Refill oil
6. Wait ten minutes, then check and refill oil again
7. Reinstall filling plug



Oil Capacity - 4.7 quarts

Kubota B7800 Parts

Kubota Filters

Filter
Part#: [16271-32093](#)



\$10.81

Air Filter
Part#: [32721-58242](#)



\$34.94

Hydraulic Oil Filter
Part#: [66021-36060](#)



\$10.34

Hydraulic Filter
Part#: [67955-37710](#)



\$15.79

Fuel Cap
Part#: [6A100-54910](#)



\$15.29

Fuel Filter
Part#: [6A320-59930](#)



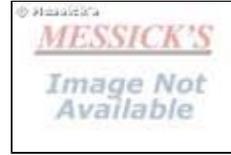
\$10.10

Outer Filter
Part#: [6C060-99410](#)



\$27.61

Engine Oil Filter
Part#: [HH160-32093](#)



\$9.52

Kubota Fluids

1 QUART 15W-40
Part#: [70000-10000](#)



\$3.59

10W-30 Engine Oil, Qt
Part#: [70000-10200](#)



\$3.59

1 QT GEAR 80W-90
Part#: [70000-10500](#)



\$3.27

1qt Super UDT
Part#: [70000-40100](#)



\$5.67

1gal Super UDT
Part#: [70000-40101](#)



\$19.90

2.5gal Super UDT
Part#: [70000-40102](#)



\$48.70

5gal Super UDT
Part#: [70000-40105](#)



\$92.00

Kubota Manuals

B7800/2710/2910
Part#: [6C170-63113](#)



\$21.50

B2410 / B2710 / B2910 / B7800
Shop Repair Manual
Part#: [97897-12271](#)



\$62.37

B7800 HSD Repair
Supplement
Part#: [97897-13030](#)



\$13.28

B7800 Parts Diagrams
Part#: [97898-22681](#)



\$29.35

Other Kubota Parts

Ignition Key
Part#: [15248-63700](#)



\$6.05

Thermostat Assembly
Part#: [15321-73014](#)



\$17.21

Thermostat gasket
Part#: [16221-73270](#)



\$2.20

Water Pump Gasket
Part#: [16239-73430](#)



\$3.50

Belt
Part#: [16241-97010](#)

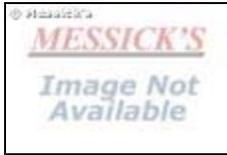
Water Pump
Part#: [16251-73034](#)

Glow Plug
Part#: [16851-65512](#)

Radiator Cap
Part#: [17214-72020](#)



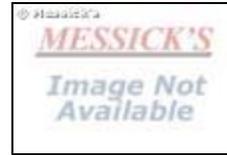
\$13.74



\$162.00



\$26.08



\$15.98



Slow Blow Fuse
Part#: [1G111-65720](#)

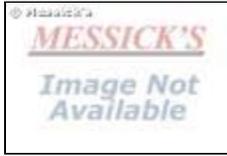
Bulb
Part#: [32530-91530](#)

10 Amp Fuse
Part#: [36730-75550](#)

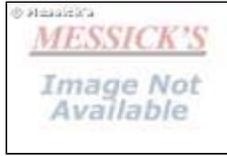
20 Amp Fuse
Part#: [36919-56650](#)



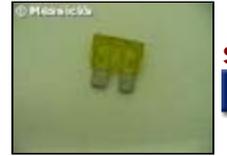
\$5.27



\$5.27



\$1.54



\$1.54



Bulb
Part#: [37410-52720](#)

10 Amp Auto Fuse
Part#: [48100-55880](#)

Auto Fuse
Part#: [52300-41630](#)

5 Amp Auto Fuse
Part#: [66426-80010](#)



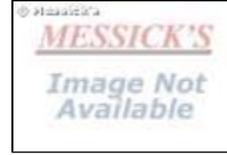
\$4.62



\$3.46



\$1.56



\$1.72



Bulb
Part#: [66591-55630](#)

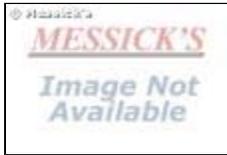
Muffler
Part#: [6A320-58405](#)

Ignition Switch
Part#: [6C040-55452](#)

Drain Hose
Part#: [6C040-58680](#)



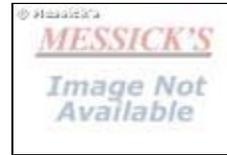
\$5.68



\$111.04



\$45.19



\$5.68



Bulb
Part#: [6C040-92150](#)

Switch
Part#: [6C070-55420](#)

Water Hose
Part#: [6C070-58570](#)

Water Hose
Part#: [6C070-58630](#)



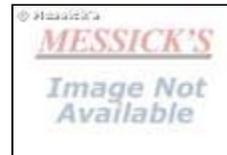
\$5.26



\$38.45



\$15.98



\$12.40



Other Parts

14oz Moly Grease
Part#: [132095A1](#)

14oz Multi-Purpose Grease 251H EP
Part#: [132096A1](#)

Mower Blade
Part#: [K5651-34340](#)



\$3.13



\$2.58



\$13.45



Kubota B-Series Adjustment and Service Checks (pictures from B7800. Concepts apply to other B-Series Tractors)

Lubricating Grease Fittings

Apply multipurpose grease to the following places every 50 hours (or more often if you operate in a very wet or muddy location)

1. Speed control pedal grease fitting
2. Battery terminals
3. Top link grease fitting
4. Lifting rod grease fitting



Wheel Bolt Torque

Check wheel bolts regularly as follows:

1. Front wheel nuts 57-67 ft-lbs torque
2. Rear wheel nuts 123-141ft-lbs torque
3. Rear wheel bolts 145-166 ft-lbs torque

Checking Fuel Lines

1. Check that clamps are tight and check lines and clamps for deterioration
2. Replace clamps or lines if damaged

Check fuel lines annually or after every 100 hours of use, whichever comes first.

If you are removing the fuel line, make sure to bleed the system

Adjusting Fan Belt Tension

1. Make sure engine is off
2. Check belt for damage, if belt is damaged, replace
3. Apply some pressure to belt halfway between pulleys to check tension
4. If tension is not what it should be, loosen the alternator mounting bolts and, using a lever placed between the alternator and the engine block pull the alternator out until the tension is correct



Fan Belt should have a deflection between 1/4 – 3/8" (7 – 9mm) when the belt is pressed in the middle of the span

Kubota Tractor Loader Removal.

The following steps can be followed to easily remove a loader from any tractor using a standard parking stand with pin fastened mounts. It should not take an experienced operator more than 2 minutes to complete this series of steps.

Start by parking the tractor on flat level ground. Hooking the loader backup to the tractor is much more difficult if the loader and tractor are not on the same plane.



Raise the loader boom (right) and lower the two stand arms (above). The arms are held in place right below the loader by two cotter pins. Removing the pins allows the arms to swing downward and reconnect in the lowered position. Use the same cotter pins to secure the arms in this position.





Drop the loader and roll the bucket forward so that it's resting on the front edge. Lift the front tires off the ground just slightly. This helps push the tractor and loader mounts together and makes the pins easier to remove.

Once the loader is in position the pins that attach the loader to the frame can be removed. If the weight is properly distributed they will slide right out. Sometimes it's necessary to work around the loader stick till the pin works loose.



With the pins removed roll the bucket from the front edge to the back edge. Curling here will cause the loader mount to lift away from the tractor.



With the loader away you can now unhook the hydraulic hoses. Before unhooking the couplers shut the machine down and work the controls in every direction to equalize the pressure.

If you do end up with pressure in the lines reconnecting the hoses can be difficult. You can blow off the pressure put pressing the pin in the

center of the hydraulic coupler with a screw driver.

