## BEFORE OPERATING THE EXCAVATOR

**WARNING:** *Do not attempt to operate this excavator unless you have first read and perfectly understood the safety messages and instructions appearing in this manual.*

Before operating this excavator, be sure to do the following:

1. Check the level of all fluids (engine oil, hydraulic fluid and coolant) and make sure that the fluids and lubricants are suitable for prevailing conditions. See Lubrication/Filters/Fluids section and Operating the excavator in cold weather.
2. Carry out the daily maintenance operations. See section Servicing intervals.
3. Inspect the excavator, look for any signs of possible leakage and check the hoses. Tighten or replace as necessary. See section Maintenance/Adjustments.
4. See Run-in period if the excavator is new or if the engine has been reconditioned.
5. Check the track assemblies. See Tracks in the Maintenance/Adjustments section.
6. Clean the steps and access handles. Grease, oil, mud or ice (in winter) on the steps and access handles can causes accidents. Make sure they are kept clean at all times.
7. Clean or replace any decals which are illegible. See Decals in the Safety/Decals/Hand signals section.
8. Make sure that the engine hood and the side doors are properly closed and latched.
9. Secure the cab door in either fully closed or fully opened position.
10. Remove any obstructions which hinder visibility. Clean the windshield, the windows and the rear view mirrors.
11. Check that no tools or other items have been left on the excavator (be it on the undercarriage or the upperstructure) or in the operator's compartment.
12. Make sure nobody is on or under the excavator. The operator must be alone on the excavator.
13. Make sure nobody is standing in the excavator working area.
14. Find out about current safety measures in use on the work site.
15. Work out a convenient means of escape from the excavator (emergency exit via the windshield, the rear window glass) in the event of the cab door being jammed or the excavator turning over. See Windshield in the Controls/Instruments/Accessories section.
16. Before undertaking any travel or working operations during hours of darkness, make sure the lighting and signalling equipment is fully operative.

## OPERATING THE EXCAVATOR

**WARNING:** *Check all controls and safety devices in a safe, open area before starting work.*

When operating the excavator, be sure to do the following:

1. When starting the engine, be sure to use the correct procedure for the prevailing weather conditions. See Starting the engine.
2. Regularly consult the hourmeter to ensure that all servicing operations are carried out punctually. See section Servicing intervals.
3. If you use your excavator in particularly harsh conditions (dusty or corrosive atmosphere), the servicing intervals should be reduced accordingly.
4. Take note of the locations of pipes/cables before starting work.
5. Do not work near overhead high-voltage electric lines without checking beforehand that all necessary measures have been taken to respect the safest distances:

   Less than 57 000 volts: 3 metres (10 ft)

   More than 57 000 volts: 5 metres (16 ft)
6. When working on a public highway, use standard traffic signs and take into consideration the working range of the upperstructure and its attachments.
7. Never operate the working or travel controls unless you are properly seated in the operator's seat with the seat belt correctly fastened.
8. Modify your operation to suit the type of work and working conditions. See Operating instructions in the Job Site Operation section.
9. Do not allow anyone within the excavator's operating radius. Stop all operations until everyone has moved away.
10. Operate all controls gradually to ensure smooth excavator operation.

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## DAILY INSPECTIONS

Every day, before starting work, it is necessary to inspect the excavator and service certain of its components.

### GENERAL REMARKS

Check for water or oil leaks.

Check that all screws and nuts are correctly tightened.

Wipe off any dust (engine, operator's compartment, etc.).

Check for damage.

### ENGINE

Check the oil level and change the oil if necessary.

Check the coolant level.

Check for clogging or damage to the radiator.

Check the radiator fan belt tension.

Check the air filter is clean and not restricted.

Check for water or oil leaks on the components.

Check the condition of all lines.

### UPPERSTRUCTURE

Check the fuel tank level.

Check the hydraulic reservoir level.

Check that the hydraulic oil is clean.

Check for water or oil leaks on the components.

Check the condition of all lines.

Check for electrical short-circuits.

Check the battery connections are properly tightened.

Adjust the rear view mirrors.

### UNDERCARRIAGE

Check the pad hardware.

Check the condition of the tracks.

Check that the upper and lower rollers and the idler wheels are not leaking oil.

### ATTACHMENT

Check for oil leaks on the cylinders.

Check the condition of all lines.

Check the condition of the bucket teeth.

### After Starting the Engine

Did the engine start correctly? Are the exhaust fumes normal? Any strange noises?

Check for abnormal noise on the hydraulic components.

Check for water or oil leaks on the components.

Check the audible alarm devices, working lights and windshield wipers.

Check that all circuits (travel, swing and tool) are functioning correctly.

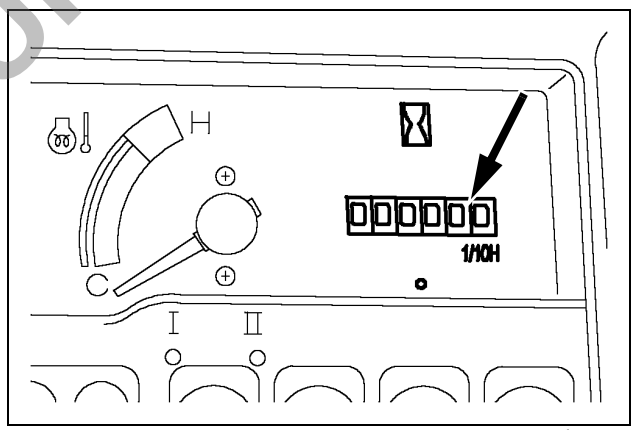
**IMPORTANT:** *If the slightest defect is found, repair it immediately before using the excavator or see your LBX Link-Belt dealer.*

## HOURMETER

The hourmeter enables service operations to be scheduled. Its hourly indications are the same as those of a clock when the engine is running.

Servicing intervals are carefully calculated to guarantee safe and efficient excavator operation.

Be sure to carry out all the servicing operations properly as defined in this manual.




CT02C243 Figure 1

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## ENGINE

Make ..... ISUZU
Type ..... AI-4JJ1X
Number of cylinders ..... 4
SAE net horsepower ..... 95 HP (71 kW) @ 2,000 rpm
Displacement ..... 265 lbf-ft (359 Nm)
Maximum Torque ..... 265 lbf-ft (359 N-m) @ 1,600 rpm
Starter ..... 24 V-4.0 kW

## ELECTRICAL SYSTEMS

Circuit ..... 24 volts
Battery ..... 72 amp hours
Alternator ..... 50 amp

## HYDRAULIC SYSTEM

Open-center system, two variable displacement axial piston pumps and one gear pump for pilot controls, main control valve with one 4-spool valve and one 5-spool valve with auxiliary spool - stackable, oil cooler, boom and arm holding valves, o-ring face seals, 6 micron return filter, firewall.

Main pump max flow ..... 2 x 30.9 gpm (2 x 117 l/min)
Pilot pump max flow ..... 5.3 gpm (20 l/min)
Blade pump max flow ..... 14.3 gpm (54 l/min)

Relief valves pressures:

Boom/Arm/Bucket ..... 4,970 psi (343 bar)
Swing ..... 4,060 psi (280 bar)
Travel ..... 4,970 psi (343 bar)
Pilot Pump ..... 570 psi (39 bar)
Blade (if equipped) ..... 2,988 psi (206 bar)

**Hydraulic cylinders**:

| | Bore x Rod x Stroke |
|---|---|
| Boom | 4.1" x 3.0" x 44.1" |
| Arm | 4.5" x 3.1" x 43.6" |
| Bucket | 3.7" x 2.6" x 34.7" |
| Blade (if equipped) | 4.4" x 2.9" x 9.5" |

Hydraulic Oil Filtration:

Return filter ..... 6 micron
Pilot filter ..... 8 micron
Suction screen ..... 150 micron

**Control Valves:**

Five control valve sections for left-hand travel, boom, arm, auxiliary circuit and swing acceleration.
Four control valve sections for right-hand travel, boom, arm and bucket acceleration.
Boom/arm load holding valves. One spool valve for blade.(if equipped)

**Swing**

Fixed flow, piston-type pump.

Upperstructure swing speed ..... 0-10 rpm
Tail Swing ..... 4' 10" (1.48 m)
Swing Torque ..... 27,044 lbf-ft (36.7 kN-m)

**Travel**

Variable flow hydraulic motors with axial pistons. Planetary reduction gears.
Two speeds controlled from the instrument panel.

Low speed ..... 0 to 1.9 mph (0 to 3.1 km/h)
High speed ..... 0 to 3.1 mph (0 to 5.0 km/h)
Drawbar pull ..... 25,853 lbf (115 kN)


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## EXCAVATOR TRAVEL

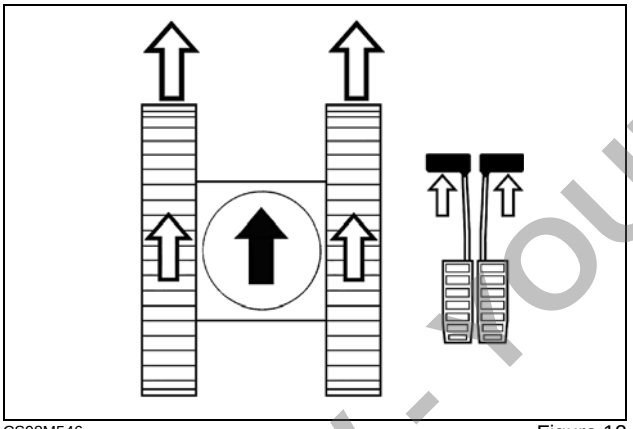
**WARNING:** *In the normal travel position, the operator's compartment is above the idler wheels and the travel reduction gears are to the rear of the upperstructure. If the upperstructure is turned 180 degrees in relation to the undercarriage, the controls are reversed.*

**IMPORTANT:** *Before any travel operation, raise the attachment and the dozer blade (if equipped).*

**NOTE:** *Travel speed depends on the tilting angle of the levers and the travel mode speed selected. See High Speed Travel Switch in Instruments and Controls.*

1. Straight line travel (Forward Travel)

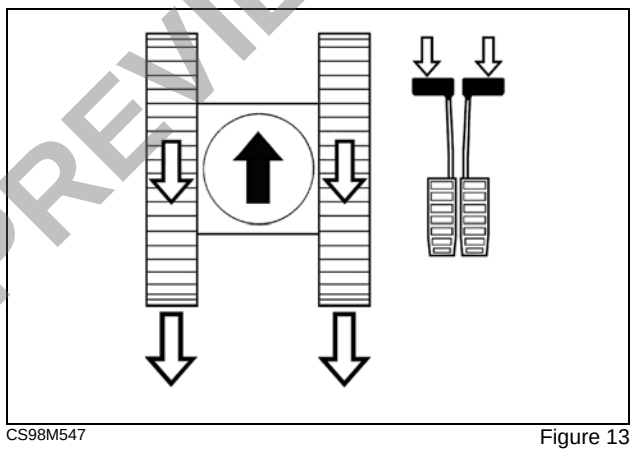
   Press the two pedals (or push the two levers) forwards at the same time.



CS98M546 Figure 12

2. Straight line travel (Reverse Travel)

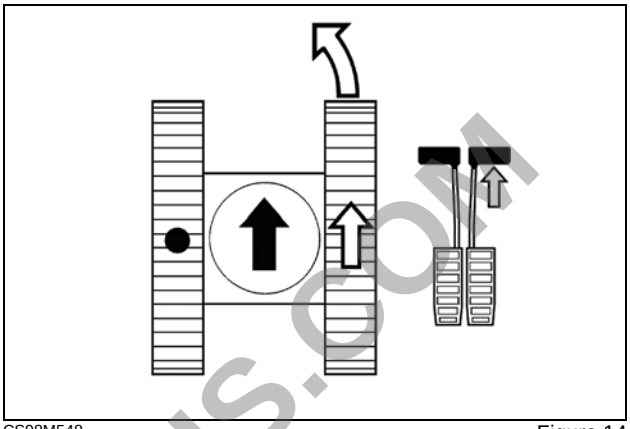
   Press the two pedals (or push the two levers) rearwards at the same time.



CS98M547 Figure 13

3. Turning to the left (Forward Travel)

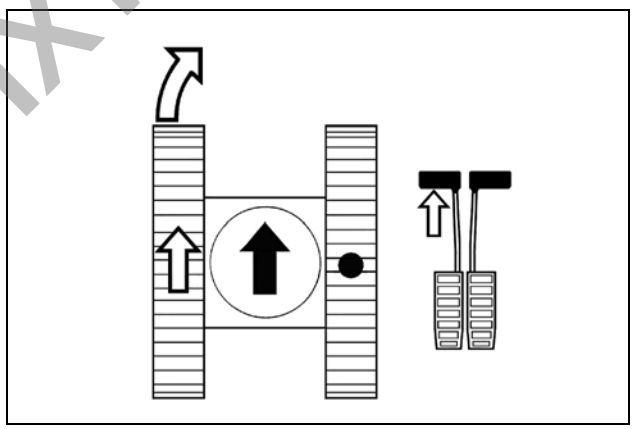
   Simply press the right-hand pedal or the right-hand lever forwards.



CS98M548 Figure 14

4. Turning to the right (Forward Travel)

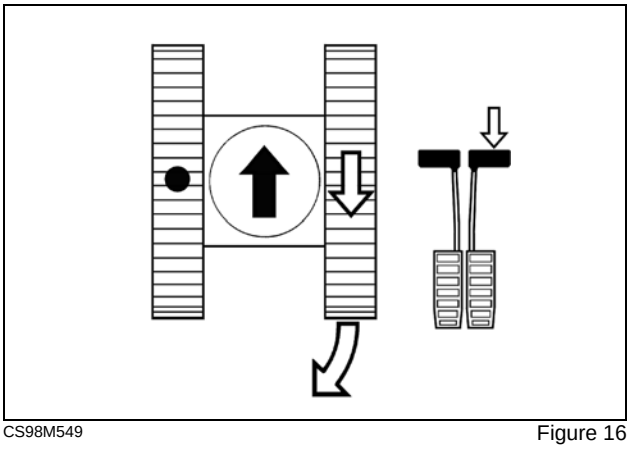
   Simply press the left-hand pedal or the left-hand lever forwards.



CS98M551 Figure 15

5. Turning to the left (Reverse Travel)

   Simply press the right-hand pedal or the right-hand lever rearwards.



CS98M549 Figure 16

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# LUBRICATION CHART FOR 135 SPIN ACE WITH BLADE

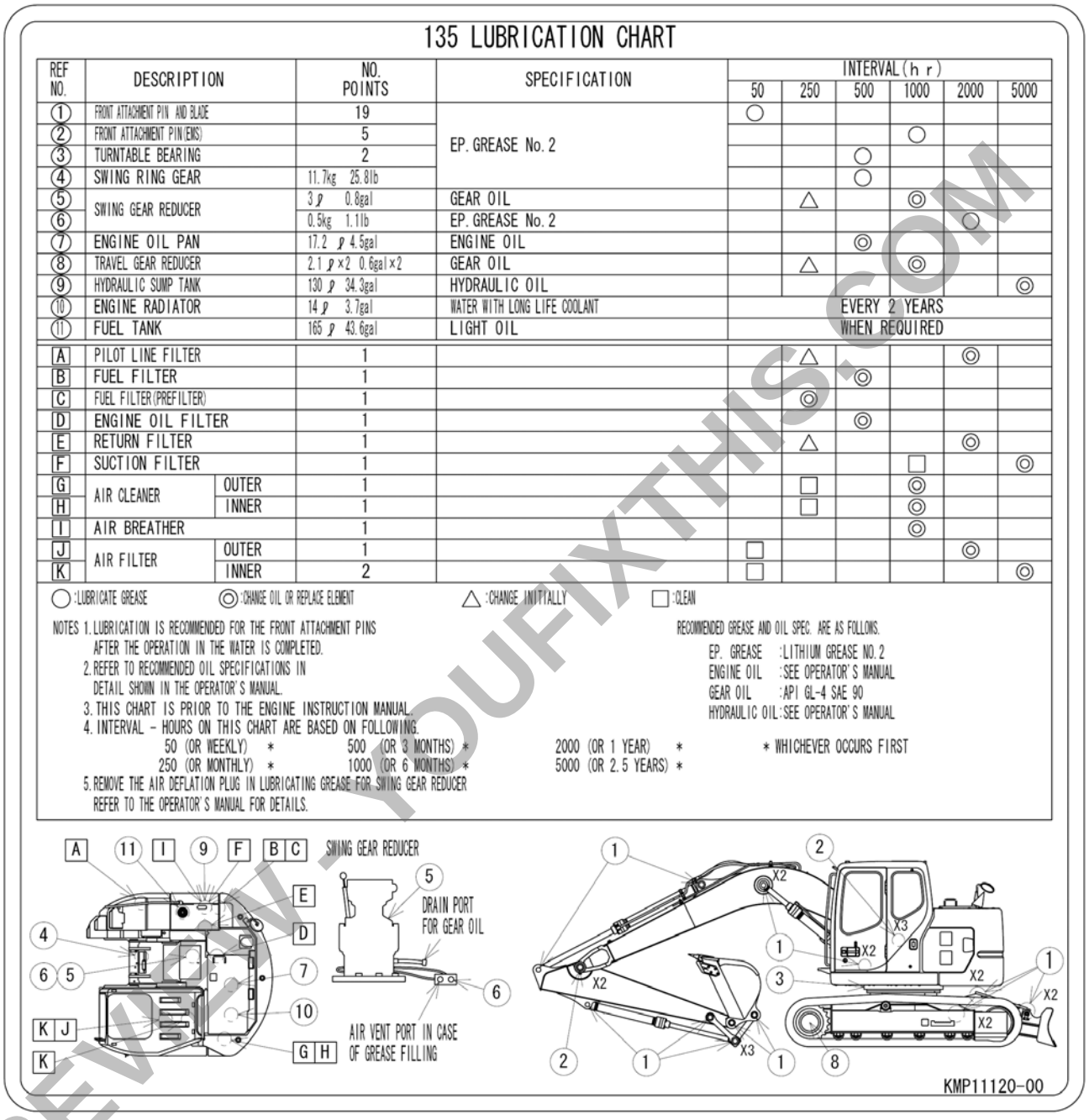



Figure 2

**Commonly Replaced Filters**

| Filter | Part Number | Service Interval | Filter | Part Number | Service Interval |
|---|---|---|---|---|---|
| Engine Oil Filter | KHH0533 | 500 Hours | Outer Air Filter | KMH0781 | 1000 Hours |
| Fuel Main Filter | KHH0534 | 500 Hours | Inner Air Filter | KMH0830 | 1000 Hours |
| Fuel Pre-filter | KHH12030 | 250 Hours | Air Breather Filter | KRJ3461 | 1000 Hours |
| Pilot Oil Filter | KHJ17730 | 2000 Hours | Air Breather Packing | KRJ3463 | |
| Return Filter | KHJ14680 | 2000 Hours | Suction Filter | KMJ2671 | 5000 Hours |

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## 135 SPIN ACE WITH 7’ 10" (2.39 M) ARM WITH NO BLADE

| Load (Lift) Point Height | Load Radius | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **End** | **Side** | **End** | **Side** | **End** | **Side** | **End** | **Side** |
| | 5 ft | | 10 ft | | 15 ft | | 20 ft | |
| 25 ft | | | | | | | | |
| 20 ft | | | | | 6,850* | 6,850* | | |
| 15 ft | | | | | 8,650* | 7,250 | 6,150 | 4,350 |
| 10 ft | | | 14,150* | 13,400 | 9,800 | 6,800 | 6,000 | 4,200 |
| 5 ft | | | 18,450* | 11,750 | 9,150 | 6,250 | 5,750 | 3,950 |
| Ground Level | | | 17,200 | 10,800 | 8,700 | 5,800 | 5,550 | 3,750 |
| -5 ft | 11,400* | 11,400* | 17,150 | 10,700 | 8,450 | 5,600 | 5,400 | 3,650 |
| -10 ft | 18,350* | 18,350* | 16,250* | 10,900 | 8,500 | 5,650 | | |
| -15 ft | | | 9,550* | 9,550* | | | | |

| Load (Lift) Point Height | Load Radius | |
|---|---|---|
| | **End** | **Side** |
| | Capacity @ Max Reach | |
| 25 ft | 3,450* | 3,450* |
| 20 ft | 2,950* | 2,950* |
| 15 ft | 2,800* | 2,800* |
| 10 ft | 2,800* | 2,600 |
| 5 ft | 3,000* | 2,450 |
| Ground Level | 3,350* | 2,550 |
| -5 ft | 4,000* | 2,950 |
| -10 ft | 5,450* | 4,050 |
| -15 ft | | |

**IMPORTANT:** *All weights are in pounds.*

**IMPORTANT:** *Capacities marked with asterisk (*) are limited by hydraulic capacities.*

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*THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN THIS SYMBOL IS USED, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY*

M171D

Safety Decals on this excavator use the words **Danger, Warning, or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

## WARNING

IMPROPER OPERATION OF THIS EXCAVATOR CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS EXCAVATOR, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the excavator.
- Reads and understands the Manual(s) pertaining to the excavator.
- Reads and understands ALL Safety Decals on the excavator.
- Clears the area of other persons.
- Learns and practices safe use of excavator controls in a safe, clear area before operating this excavator on a job site.

It is the operator's responsibility to observe pertinent laws, regulations and follow the LBX Company, LLC instructions on excavator operation and maintenance.

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## CALIFORNIA

### PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery post, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

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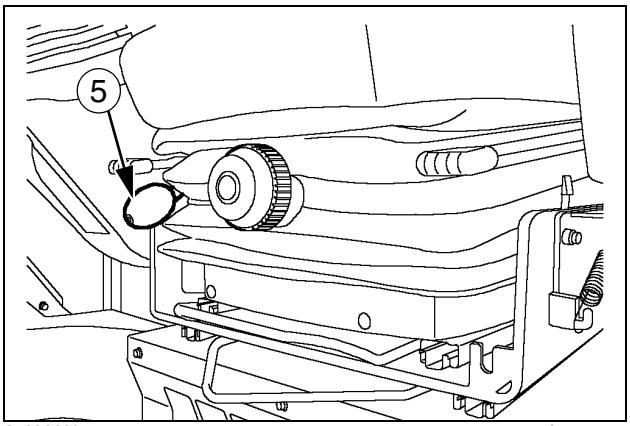
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5. Lumbar support adjustment

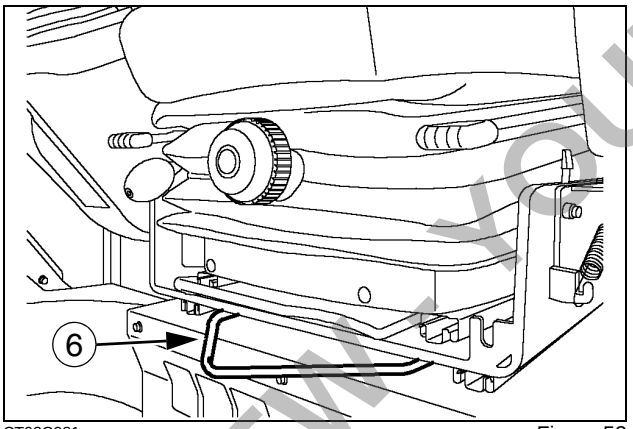
Use the inflation bulb (5) to inflate the lumbar support. Press the button on the tip of the inflation bulb (5) to deflate the lumbar support.




CT02C080 Figure 51

6. Console and seat adjustment

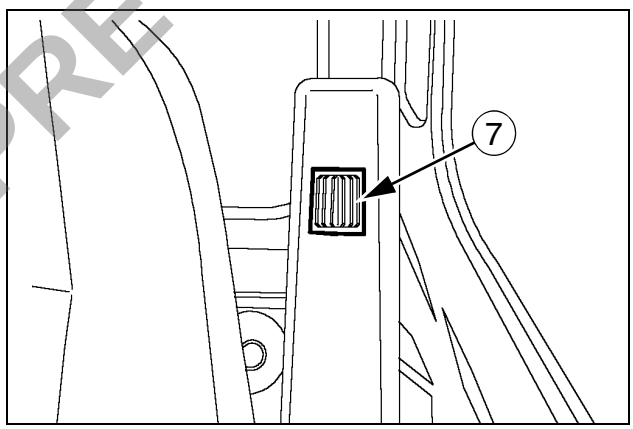
Pull the lever (6) upwards, and slide the seat and control arm assembly to the desired position, then release the lever.




CT02C081 Figure 52

7. Armrest angle adjustment

Lift the armrests, turn the knob (7) to get the desired angle then lower the armrest.

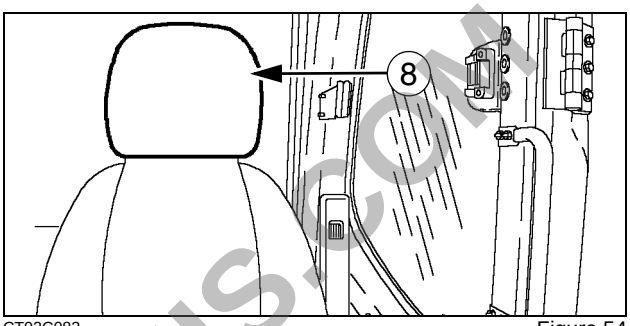



CT02C082 Figure 53

8. Headrest adjustment

The headrest (8) can be adjusted upwards and downwards and backwards and forwards.

**NOTE:** *To make the headrest return to its initial position (to the rear), tilt it completely forwards and then release it.*




CT02C083 Figure 54

9. Safety belt

Sit comfortably on the seat, pull the seat belt out then engage it in the kink system (9).

If the section of belt pulled out is not long enough, release it, so it rolls up and then pull it out again.

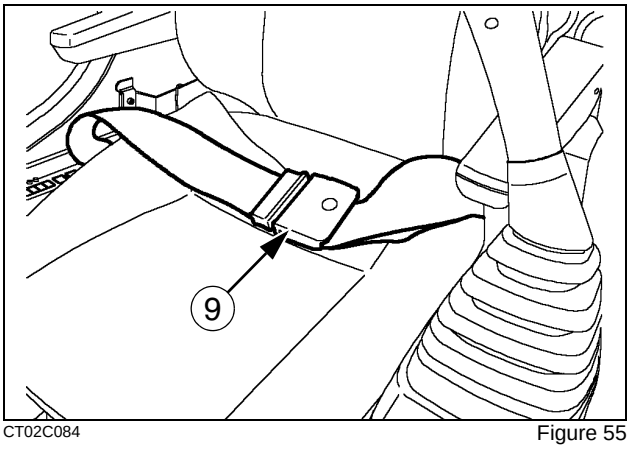
To fasten the seat belt, insert the buckle in the slide closing of the opposite belt. To unfasten the seat belt, lift the slide closing of the opposite belt.

**WARNING:** *Always fasten your safety belt before starting the engine. The safety belt will protect you effectively if you fasten it correctly and wear it at all times. The safety belt should not be too loose. It should not be twisted or caught in the seat.*

To release the seat belt, press down on the releasing lever (9).

**IMPORTANT:** *Inspect the seat belt. Make sure that it is not damaged, that the mounting screws are correctly tightened and replace any defective parts.*

The seat belt must be kept clean. Use only soap and water to clean the belt, do not use bleach or dies.




CT02C084 Figure 55



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### FILLING THE FUEL TANK

1. Clean carefully around the filling cap (1). Remove the cap.
2. Fill the tank, make sure that no water or dust enters the tank.

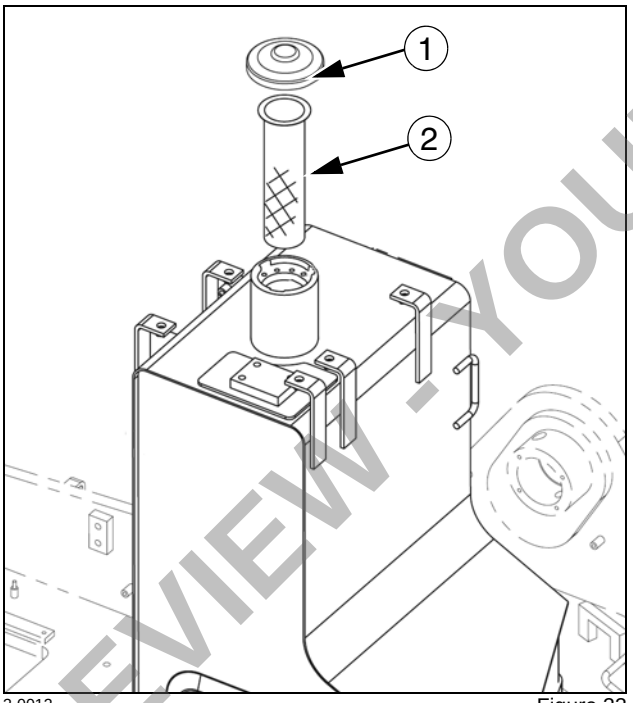
**IMPORTANT:** *Never remove the tank strainer (2) for filling.*

**WARNING:** *Never refuel when the engine is running. Never smoke when refueling.*

**IMPORTANT:** *In cold weather, use fuel corresponding to the ambient temperature. See Lubrication and Fluids section. Fill the fuel tank after each working day to prevent the formation of condensation.*

3. Install the filler cap.

   **IMPORTANT:** *Make sure that the cap is correctly locked.*




3-0012

Figure 33

### ELECTRONIC FUEL TRANSFER PUMP COMPONENTS

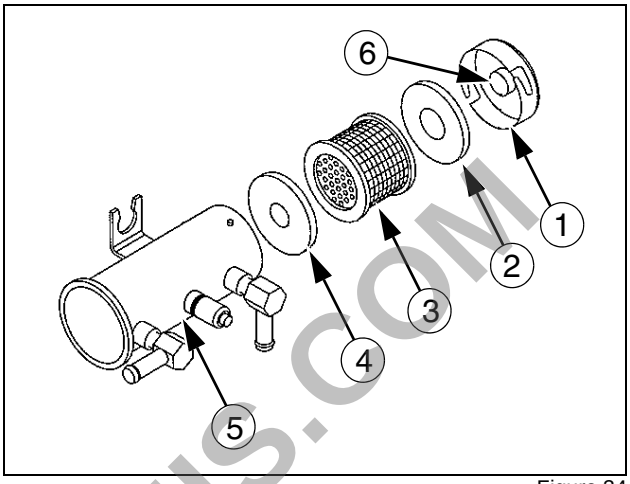



Figure 34

1. Cover
2. Gasket
3. Filter
4. Gasket
5. Body
6. Magnet

The electronic fuel transfer pump has a metal screen to catch any impurities in the fuel. Proper care of the electronic fuel transfer pump improves performance of the excavator.

### CLEANING THE ELECTRONIC FUEL TRANSFER PUMP

1. Turn the cover (1) counterclockwise.
2. Remove the larger gasket (2), filter (3) and smaller gasket (4).
3. Inspect the filter for any damage to the mesh. If it is damaged replace the filter. To clean it use clean diesel fuel or compressed air.
4. Clean the cover (1), magnet (6), and the body (5).
5. Replace the gaskets (2 and 4),
6. Instal the small gasket (4) in the body (5), then the filter (3), and lastly the large gasket (2).
7. Install the cover (6) clockwise.

Figure 35

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