

Operation & Maintenance Manual

SKID STEER LOADER
1760XL / DSL802

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employees who work around (but do not operate) the equipment for suggestions about what the operators should be taught.

1.5.4. Practical Training

The questions above and others like them can help you design an appropriate training course for your operators. But above all, be sure that your training incorporates a significant portion of practical experience.

1.5.5. Recognition

A key part of any training program is recognition. Think of ways you can recognize the achievement of those who successfully complete this important training. Certificates, licenses, patches, authorization cards and the like set these individuals apart and help create a lasting attitude of commitment to the job.

1.6. Information Resources for Operation, Maintenance, and Safety

The following publications contain information, instructions, and standards for various operation, maintenance, and safety issues related to your DAEWOO equipment.

- General Industry Standards, OSHA 2206: "OSHA Safety and Health Standards (29 CFR 1910)," "Subpart N - Materials Handling and Storage"; 29 CFR 1910.178 powered industrial trucks; 1910.177 - "Servicing Multi-Piece and Single Rim Wheels." Available from: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.
- National Fire Protection (NFPA) 505, "Powered Industrial Trucks, Type Designation, Areas of Use, Maintenance, and Operation." Available from: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

2.4. General Safety and Hazard Information

2.4.1. Unauthorized Modification

▲ WARNING

UNAUTHORIZED MODIFICATION

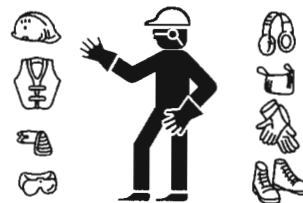
- Any modification made without authorization from DAEWOO can create hazards.
- Before making a modification, consult your DAEWOO dealer.
Improper modification could result in injury or death.
- Improper use of safety features could result in serious bodily harm or death.

2.4.2. Clothing and Personal Protective Items

▲ WARNING

CLOTHING AND PERSONAL PROTECTIVE ITEMS

- Do not operate or perform system maintenance with loose clothing, jewelry, and loose long hair. They can catch on controls or in moving parts and cause serious injury or death. Also, do not wear oily clothes or wear or have other flammable substances around the equipment.
- Always wear personal protective equipment appropriate for your working conditions, such as a hard hat, safety shoes, hearing protection, mask and gloves.



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2.5.14. Precautions for Attachments

WARNING

PRECAUTIONS FOR ATTACHMENTS

- When installing/using an optional attachment, read the instruction manual for the attachment and the information related to attachments in the manual.
- Never use attachments that are not authorized by DAEWOO or your DAEWOO dealer. Use of unauthorized attachments could create a safety problem and adversely affect the proper operation and useful life of the machine.
- **NEVER** attempt to engage or disengage the Universal Attachment System (Quik-tach) levers with the engine running.

2.5.15. Precautions for Loading and Emptying the Bucket

WARNING

- Load, unload and turn on flat level ground. Do not exceed machine rated operating load shown on the rated operating load name plate attached to your machine. Failure to obey warnings can cause the machine to tip or roll over and cause injury or death.

WARNING

- Never dump over an obstruction that can enter the operator cab. The machine could tip forward and cause injury or death.

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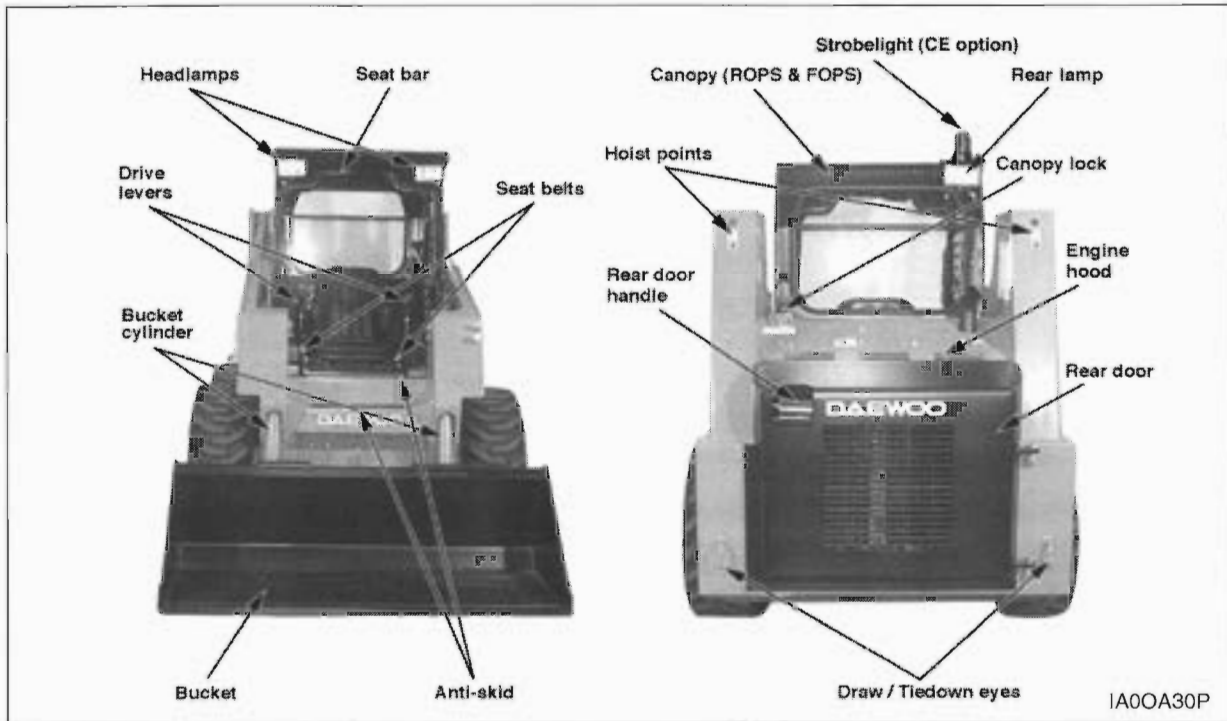


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4. MACHINE COMPONENTS

4.1. Identification of Machine Parts



5.2.7. Seat Bar

- The seat bar is installed to help protect the operator.



Raised Position

NOTE: The pedals are locked if the seat bar is in the raised position. Lower the seat bar to operate the pedals.



Raised Position

NOTE: 1760XL/DSL802 is equipped with a seat bar safety interlock that sets the park brake with the seat bar raised. The seat bar must be lowered for travel.

- (3) Loosen valves by turning counterclockwise two revolutions.

⚠ WARNING

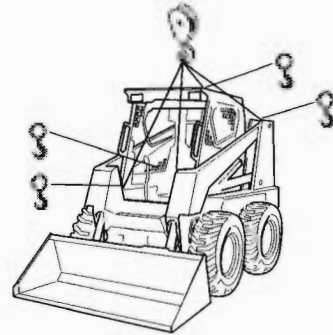
Opening of bypass valves will result in a loss of hydrostatic braking capacity. Take precautions to prevent machine movement when opening the valves, and after valves are opened.

- (4) Tow loader using the two draw eyes located at lower rear portion of frame.
- (5) After towing, tighten valves to 9.5-14 Nm (7-10 ft/lbs.)

Damage to units may result from over-torquing valves.

- (6) DAEWOO Skid Steer Loader can draw another machine using the 2 drawing eyes on rear frame.
- Specified draw bar forces are as follows:
- 1760XL/DSL802 : 2,644 Kg (w/load)
2,066 Kg (w/o load)

6.8. Lifting



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⚠ WARNING

Lifting may shift the load and could result in death or serious injury.



Canopy Lock

- Hook the rectangular canopy lock to the hook attached on left rear side of the canopy.
- To lower, reverse the above procedure.

⚠ CAUTION

Never operate without canopy lowered and properly secured.

7.3. Daily Pre/Post Start Checks

7.3.1. Pre-Start Checks

1. Check engine oil level. Refill if necessary.
2. Check hydraulic oil level. Refill if necessary.
3. Check coolant level. Refill if necessary.
4. Check the engine fan/alternator belt.
5. Check the battery and battery cables.
6. Check the fuel system for leaks.
7. Check the hydraulic system.
8. Grease all fittings.
9. Inspect for any loose or missing nuts and bolts
10. Inspect structural members and welds for cracks or deformation.
11. Check the loader tires for proper inflation and unusual wear
12. Check the fuel level.
13. Check the condition and security of the operator seat belt and seat bar.

7.7.1. General

Engine oil level should be checked daily. After draining oil and changing filter approximate refill amounts is 2.1 gallon (8 liter) for the 1760XL/DSL802.

Run loader briefly and check oil level on dipstick before returning the loader to service.

See section 8.2.9 (page.99) for fluid recommendations.



7.7.2. Draining Engine Oil

Remove the four bolts from the access plate located on the left bottom corner of the chassis. Remove the drain plug by either reaching through the opening between the radiator and the chassis or through the access plate. Drain oil into an approved waste oil receptacle. Inspect drain plug gasket and if serviceable, replace drain plug. If gasket is deformed or torn, replace gasket and re-install drain plug. Discard oil in accordance with local environmental rules and regulations.

7.7.3. Remove/Replace Engine Oil Filter

Raise and secure operators cab. Filter is located on left side of engine block. Using a strap type or other style filter wrench, remove the engine oil filter. Before installing new filter, coat the rubber gasket on the filter with clean oil. Install filter **BY HAND** and tighten until gasket fully contacts the mounting surface. Tighten 1/2 to 3/4 of a turn, by hand only.

REMOVAL

Access to the 1760XL(H)/DSL802(H) filter is through the rear service door. Remove the filter by turning counterclockwise. Drain the hydraulic oil into an approved waste oil container. While draining, check fluid and filter base for signs of particle contaminants.

INSTALLATION

Before installation you must coat the rubber seal on the new filter with a light coat of hydraulic oil. Spin on filter by hand turning clockwise until the rubber filter seal makes complete contact with the filter head assembly. At this point, turn the filter an additional 3/4 turn to fully tighten. When complete, run the loader and check the hydraulic oil level indicator. Add fluid as needed. Discard the used filter in accordance with local/federal environmental rules and regulations.



HYDRAULIC OIL FILTER

7.14.3. Hydraulic fluid replacement



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