

Solar 340LC-V

Operation and Maintenance Manual

022-00025E

Serial Number 1001 and Up

September 2001

Daewoo reserves the right to improve our products in a continuing process to provide the best possible product to the market place. These improvements can be implemented at any time with no obligation to change materials on previously sold products. It is recommended that consumers periodically contact their distributors for recent documentation on purchased equipment.

This documentation may include attachments and optional equipment that is not available in your machine's package. Please call your distributor for additional items that you may require.

Illustrations used throughout this manual are used only as a representation of the actual piece of equipment, and may vary from the actual item.

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TO THE OPERATOR OF A DAEWOO EXCAVATOR



DANGER!

Unsafe use of the excavator could lead to serious injury or death. Operating procedures, maintenance and equipment practices or traveling or shipping methods that do not follow the safety guidelines on the following pages could cause serious, potentially fatal injuries or extensive damage to the machine or nearby property.

Please respect the importance of taking responsibility for your own safety, and that of other people who may be affected by your actions.

The safety information on the following pages is organized into the following sections:

1. "Location of Safety Labels" on page 1-4
2. "Summary of Safety Precautions for Lifting in Digging Mode" on page 1-12
3. "General Hazard Information" on page 1-13
4. "Before Starting Engine" on page 1-21
5. "Machine Operation" on page 1-24
6. "Maintenance" on page 1-29
7. "Battery" on page 1-37
8. "Towing" on page 1-39
9. "Shipping and Transportation" on page 1-40
10. "Excavator Rated Lift Capacity Tables" on page 1-41



WARNING!

Improper operation and maintenance of this machine can be hazardous and could result in serious injury or death.

Operator and maintenance personnel should read this manual thoroughly before beginning operation or maintenance.

Keep this manual in the storage compartment to the rear of the operator's seat, and have all personnel involved in working on the machine read the manual periodically.

Some actions involved in operation and maintenance of the machine can cause a serious accident, if they are not done in a manner described in this manual.

The procedures and precautions given in this manual apply only to intended uses of the machine.

If you use your machine for any unintended uses that are not specifically prohibited, you must be sure that it is safe for any others. In no event should you or others engage in prohibited uses or actions as described in this manual.

Daewoo delivers machines that comply with all applicable regulations and standards of the country to which it has been shipped. If this machine has been purchased in another country or purchased from someone in another country, it may lack certain safety devices and specifications that are necessary for use in your country. If there is any question about whether your product complies with the applicable standards and regulations of your country, consult Daewoo or your Daewoo distributor before operating the machine.



SAFETY ALERT SYMBOL



Be Prepared - Get To Know All Operating and Safety Instructions.

This is the Safety Alert Symbol. Wherever it appears in this manual or on safety signs on the machine you should be alert to the potential for personal injury or accidents. Always observe safety precautions and follow recommended procedures.

LEARN THE SIGNAL WORDS USED WITH THE SAFETY ALERT SYMBOL

The words "**CAUTION**," "**WARNING**," and "**DANGER**" used throughout this manual and on decals on the machine indicate degree of risk of hazards or unsafe practices. All three degrees of risk indicate that safety is involved. Observe precautions indicated whenever you see the Safety Alert "Triangle," no matter which signal word appears next to the "Exclamation Point" symbol.



CAUTION!

This word is used on safety messages and safety labels and indicates potential of a hazardous situation that, if not avoided, could result in minor or moderate injury. It may also be used to alert against a generally unsafe practice.



WARNING!

This word is used on safety messages and safety labels and indicates potential of a hazardous situation that, if not avoided, could result in serious injury or death. It may also be used to alert against a highly unsafe practice.



DANGER!

This word is used on safety messages and safety labels and indicates an imminent hazard of a situation that, if not avoided, is very likely to cause death or extremely serious injury. It may also be used to alert against equipment that may explode or detonate if handled or treated carelessly.

Safety precautions are described in SAFETY from page 1-4 on.

Daewoo cannot predict every circumstance that might involve a potential hazard in operation and maintenance. Therefore the safety messages in this manual and on the machine may not include all possible safety precautions. If any procedures or actions not specifically recommended or allowed in this manual are used, you must be sure that you and others can do such procedures and actions safely and without damaging the machine. If you are unsure about the safety of some procedures, contact a DAEWOO distributor.

LOCATION OF SAFETY LABELS

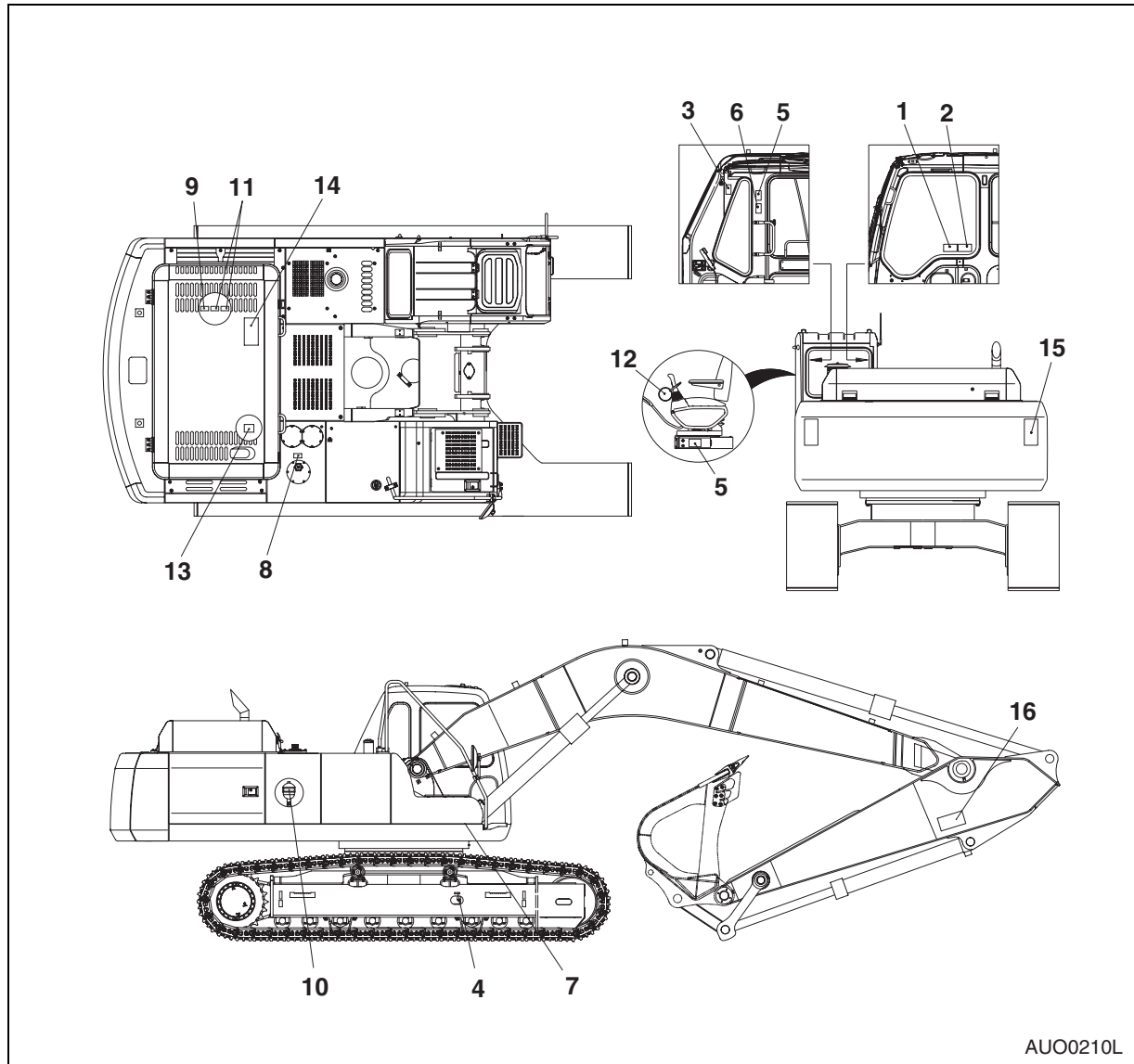


Figure 1

There are several specific warning signs on this machine. The exact location of hazards and the description of the hazards are reviewed in this section.

Please become familiarized with all warning signs.

Make sure that all of the warning signs are legible. Clean the warning signs or replace the warning signs if you cannot read the words. Replace the illustrations if the illustrations are not visible. When you clean the warning signs, use a cloth, water and soap. Do not use solvent, gasoline, or other harsh chemicals to clean the safety signs. Solvents, gasoline, or other harsh chemicals could loosen the adhesive that secures the warning sign. Loose adhesive will allow the warning sign to fall off.

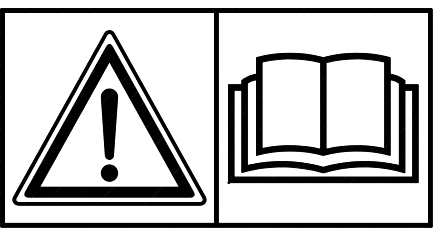
Replace any safety sign that is damaged, or missing. If a safety sign is attached to a part that is replaced, install a safety sign on the replacement part.

1. WARNINGS FOR OPERATION, INSPECTION AND MAINTENANCE (190-00688, 190-00092).

⚠ WARNING

- AVOID DEATH OR SERIOUS INJURY. - READ AND UNDERSTAND OPERATION MANUAL AND SAFETY LABELS prior to operating this machine.
- Never get in under the machine while it is being jacked up with boom and arm.
- Sound the horn to alert the people nearby before operating, and make sure that all persons are clear of area.
- Controls may be changed for attachments or operator preference. Try control pattern before operating.

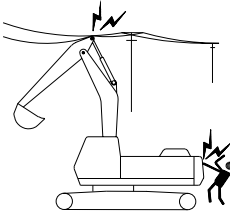
190-00688



190-00092

ARO1080L

2. WARNINGS FOR HIGH VOLTAGE (190-00689, 190-00096)

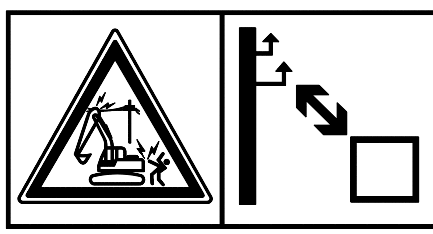


⚠ DANGER

SERIOUS INJURY OR DEATH BY ELECTROUTION can occur if machine or attachments are not a safe distance from electrical power lines.

Line voltage	Safe Distance
6.6 kv	At least 3m(10ft)
66.6 kv	At least 5m(16ft)
275.0 kv	At least 10m(33ft)

190-00689



190-00096

ARO1090L

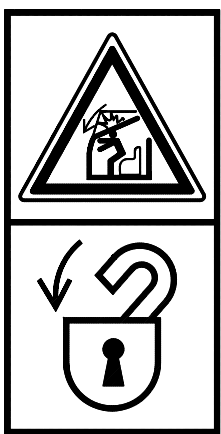
3. WARNINGS WHEN OPENING A FRONT WINDOW (190-00690, 190-00093).

⚠ WARNING

Falling window can cause injury.

When raising window, lock it in place with lock pin on left side.

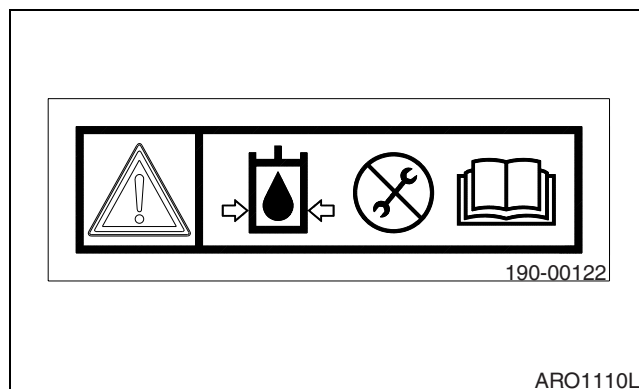
190-00690



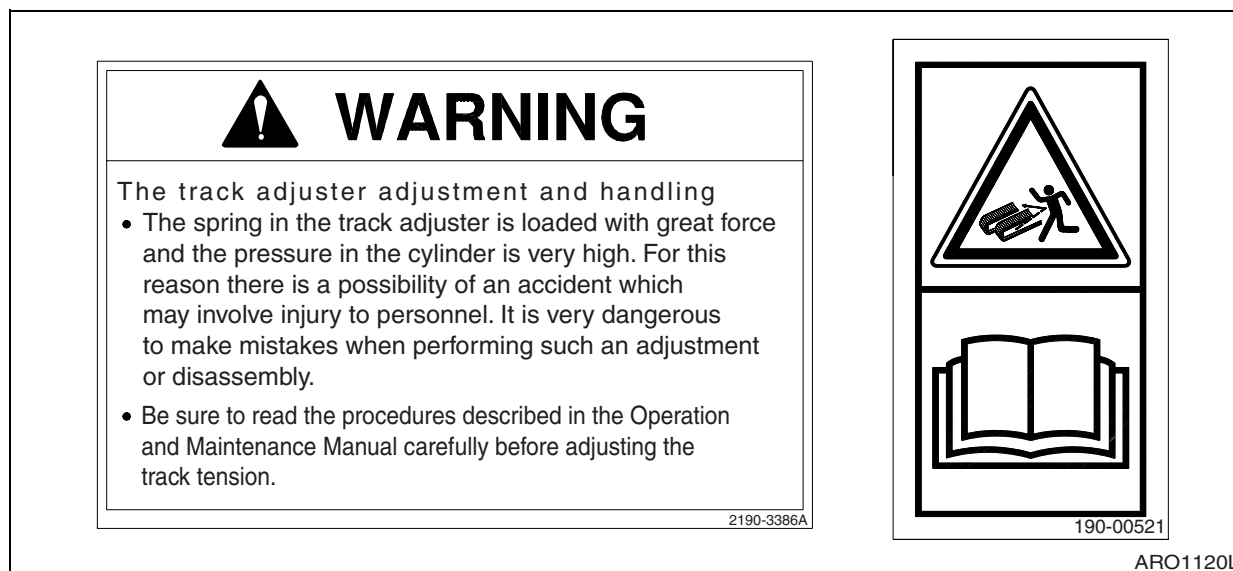
190-00093

ARO1100L

4. **WARNINGS FOR A HIGH PRESSURE CYLINDER (190-00122).**



5. **WARNINGS WHEN ADJUSTING TRACK TENSION (2190-3386A, 190-00521).**



6. **WARNINGS FOR LEAVING OPERATOR'S SEAT (190-00693, 190-00094).**

WARNING Sudden and unwanted machine movement can cause serious injury or death. Always make sure when leaving operator's seat to : • Lower equipment to the ground. • Move safety lever to LOCK position. • Turn key switch OFF. Remove key from switch. 190-00693	190-00094
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ARO1140L

7. **WARNINGS FOR BATTERIES MAINTENANCE (2190-2533A, 190-00100).**

DANGER • Battery fumes can explode. Keep sparks and flames away from batteries. • Always avoid storing metals like tools or flammable materials around or on the batteries. Explosion or fire can be caused by shortcircuiting batteries. • Sulfuric acid in battery is poisonous. It is strong enough burn skin, eat holes in clothing, and cause blindness if splashed eyes. If you spill acid on yourself; 1. Flush your skin with water. 2. Apply baking soda or lime to help neutralize the acid. 3. Flush your eyes with water for 10-15 minutes. Get medical attention immediately. 2190-2533A	190-00100
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ARO1150L

8. WARNINGS FOR HIGH TEMPERATURE HYDRAULIC OIL (190-00691, 190-00097)

WARNING HYDRAULIC OIL HOT OIL CAN CAUSE INJURY OR BLINDNESS. To prevent hot oil from spurting out: - Turn engine off - Allow oil to cool - Slowly loosen cap to relieve pressure 190-00691	190-00097 ARO1160L
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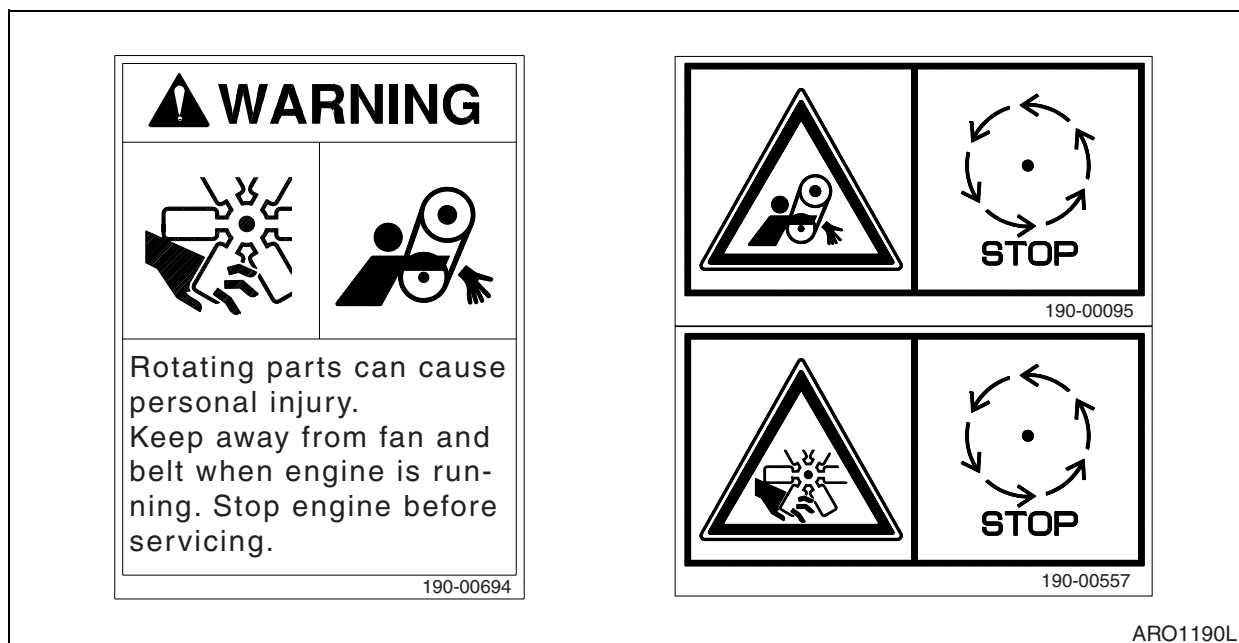
9. WARNINGS FOR HOT COOLANT (190-00692, 190-00097)

WARNING HOT COOLANT CAN CAUSE INJURY OR BLINDNESS. Never loosen or open radiator cap when coolant is hot and under pressure. To open cap, stop engine, wait until radiator is cool. Then loosen cap slowly to relieve the pressure. 190-00692	190-00097 ARO1170L
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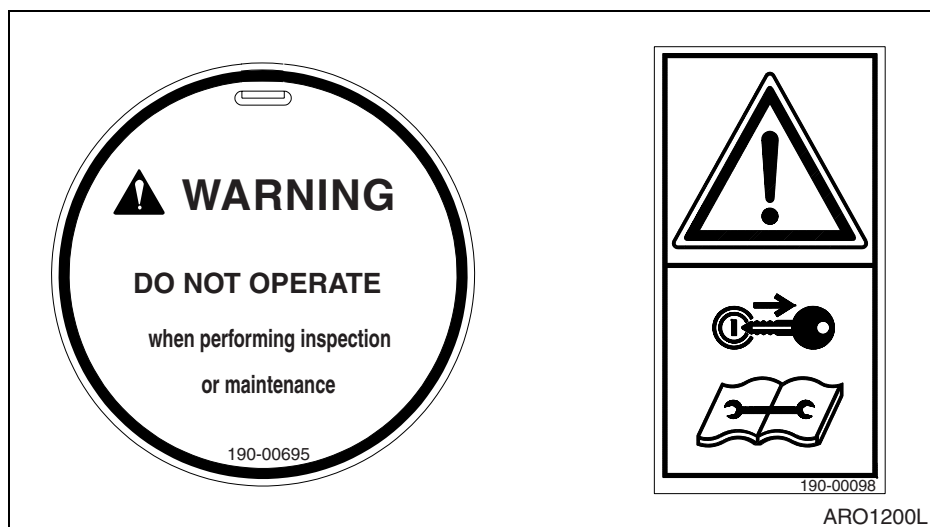
10. WARNINGS FOR HANDLING AN ACCUMULATOR (190-00703, 190-00099).

WARNING EXPLOSION HAZARD 190-00703	190-00099 ARO1180L
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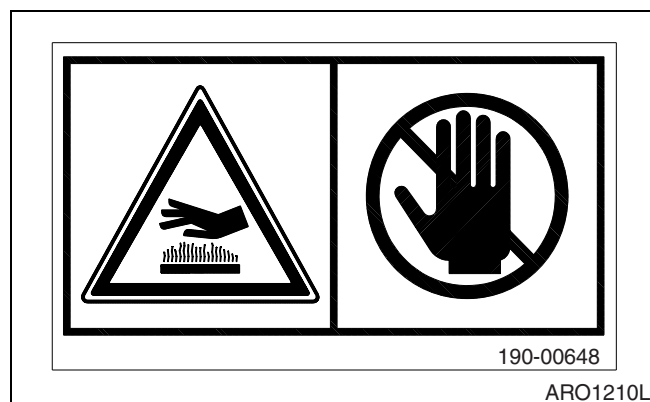
11. WARNINGS FOR ROTATING PARTS (190-00694, 190-00095, 190-00557).



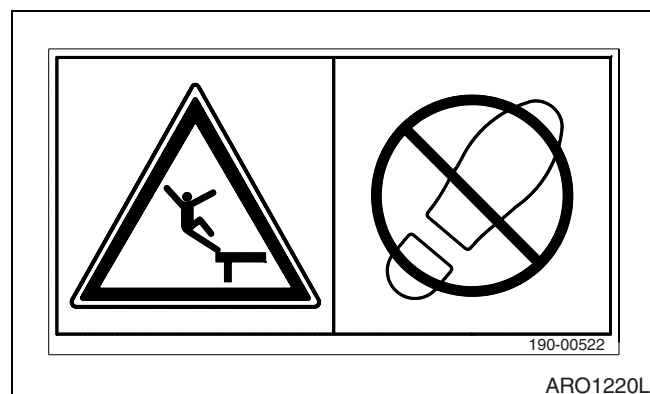
12. WARNING TAG - USED WHEN INSPECTION AND MAINTENANCE (190-00695, 190-00098).



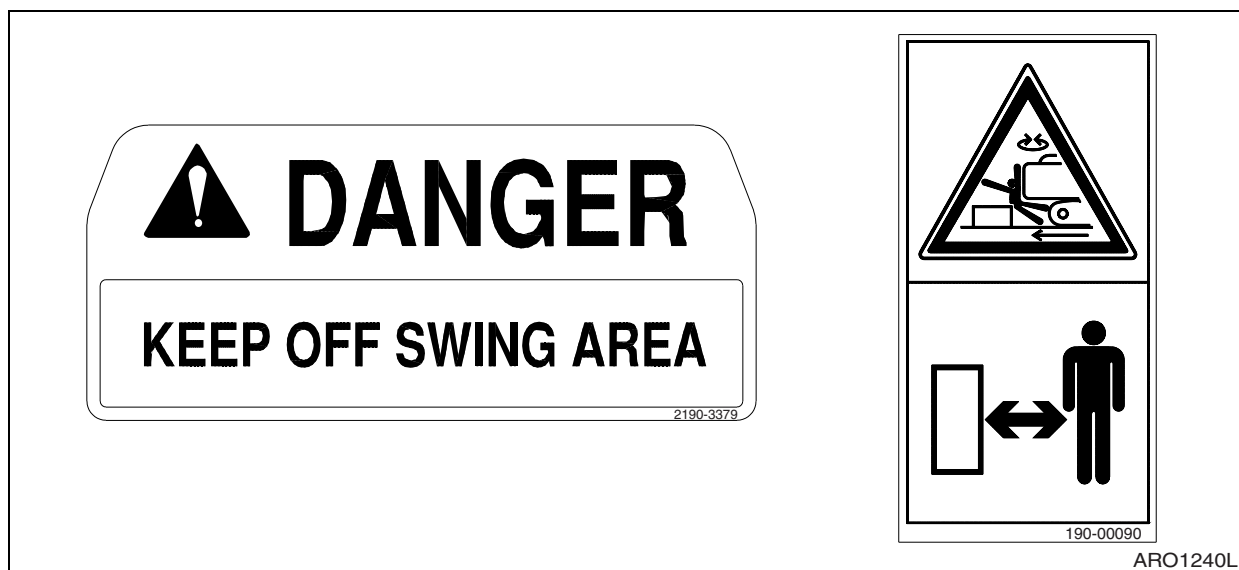
13. **WARNING FOR A HOT SURFACE**
(190-00648).



14. **CAUTION FOR HOOD** (190-00522).



15. **KEEP OUT OF THE SWING AREA** (2190-3379, 190-00090).



16. WARNINGS FOR FRONT
ATTACHMENTS (190-00652).



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