

DX340LC

Operation and Maintenance Manual

K1009683E

Serial Number 5001 and Up

September 2005

DOOSAN 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.

Table of Contents

Safety	1-1
To the Operator of a DOOSAN Daewoo Excavator	1-1
Location of Safety Labels.....	1-5
Summary of Safety Precautions for Lifting in Digging Mode.....	1-15
Unauthorized Modifications.....	1-16
General Hazard Information.....	1-16
Before Starting Engine.....	1-25
Machine Operation.....	1-29
Maintenance	1-36
Battery	1-45
Towing.....	1-47
Shipping and Transportation	1-48
Excavator Rated Lift Capacity Tables.....	1-49
 Operating Controls	 2-1
Component Locations	2-4
Operator's Area.....	2-6
Operational Controls and Panels	2-8
Instrument Panel.....	2-22
Multifunction Gauge and Graphic Information	2-29
Mode Selector Buttons.....	2-34
Setting Main Menu	2-36
Flow Control.....	2-45
Operation Selection Display.....	2-47
Heater and Air Conditioner Control Panel.....	2-49
Stereo	2-55
Miscellaneous Electrical Devices.....	2-57
Seat Adjustment.....	2-59

Ceiling Cover	2-63
Front Windows	2-64
Door Side Latch	2-66
Cabin Storage Compartments	2-67
Ashtray	2-67
Sun Visor.....	2-68
Hanger	2-68
Cup Holder.....	2-69
Door Window Holder	2-69
Emergency Glass Breaking Tool	2-69
Miscellaneous Access Covers and Doors.....	2-70
Operation.....	3-1
To Handle a New Excavator	3-1
Starting and Stopping the Engine	3-2
Safety Lever	3-13
Travel.....	3-14
Operating Instructions.....	3-20
Operating Precautions	3-24
Parking Excavator	3-29
Towing Procedure	3-30
Hydraulic Breaker	3-31
Adjusting the Pump Flow	3-36
Operating Techniques	3-39
Operation Under Unusual Conditions	3-41
Inspection, Maintenance and Adjustment.....	4-1
Preventive Maintenance.....	4-1
Preliminary Work Machine Setup for Maintenance	4-4
Table of Recommended Lubricants	4-6
Fluid Capacities	4-8
Lubrication and Service Chart	4-8
Maintenance Intervals.....	4-12

10 Hour / Daily Service	4-14
50 Hour / Weekly Service	4-25
250 Hour / Monthly Service	4-28
500 Hour / 3 Month Service	4-35
1,000 Hour / 6 Month Service	4-44
2,000 Hour / Yearly Service.....	4-51
4,000 Hour / Biennial Service	4-57
12,000 Hour / Six Year Service	4-58
Air-Conditioning System	4-59
Bolt and Nut Inspection.....	4-60
Bucket	4-68
Bucket Shimming Procedures.....	4-71
Electrical System	4-73
Engine Cooling System.....	4-77
Fuel Transfer Pump (Option).....	4-79
Handling of Accumulator.....	4-82
Track Tension	4-83
Venting and Priming Hydraulic System.....	4-85
Long Term Storage.....	4-87
Maintenance in Special Conditions.....	4-88
Transportation.....	5-1
Loading and Unloading	5-1
Lifting With Sling	5-5
Troubleshooting.....	6-1
Electrical System	6-1
Engine.....	6-2
Hydraulic System	6-3
Swing System	6-4
Travel System.....	6-5
Specification	7-1

Standard Specification	7-1
Overall Dimensions	7-2
Working Range	7-3
Approximate Weight of Workload Materials	7-4
Index	8-1

Safety

TO THE OPERATOR OF A DOOSAN 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 1-5
2. "Summary of Safety Precautions for Lifting in Digging Mode" on page 1-15
3. "Unauthorized Modifications" on page 1-16
4. "General Hazard Information" on page 1-16
5. "Before Starting Engine" on page 1-25
6. "Machine Operation" on page 1-29
7. "Maintenance" on page 1-36
8. "Battery" on page 1-45
9. "Towing" on page 1-47
10. "Shipping and Transportation" on page 1-48
11. "Excavator Rated Lift Capacity Tables" on page 1-49



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.

DOOSAN 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 *DOOSAN* or your *DOOSAN* 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.



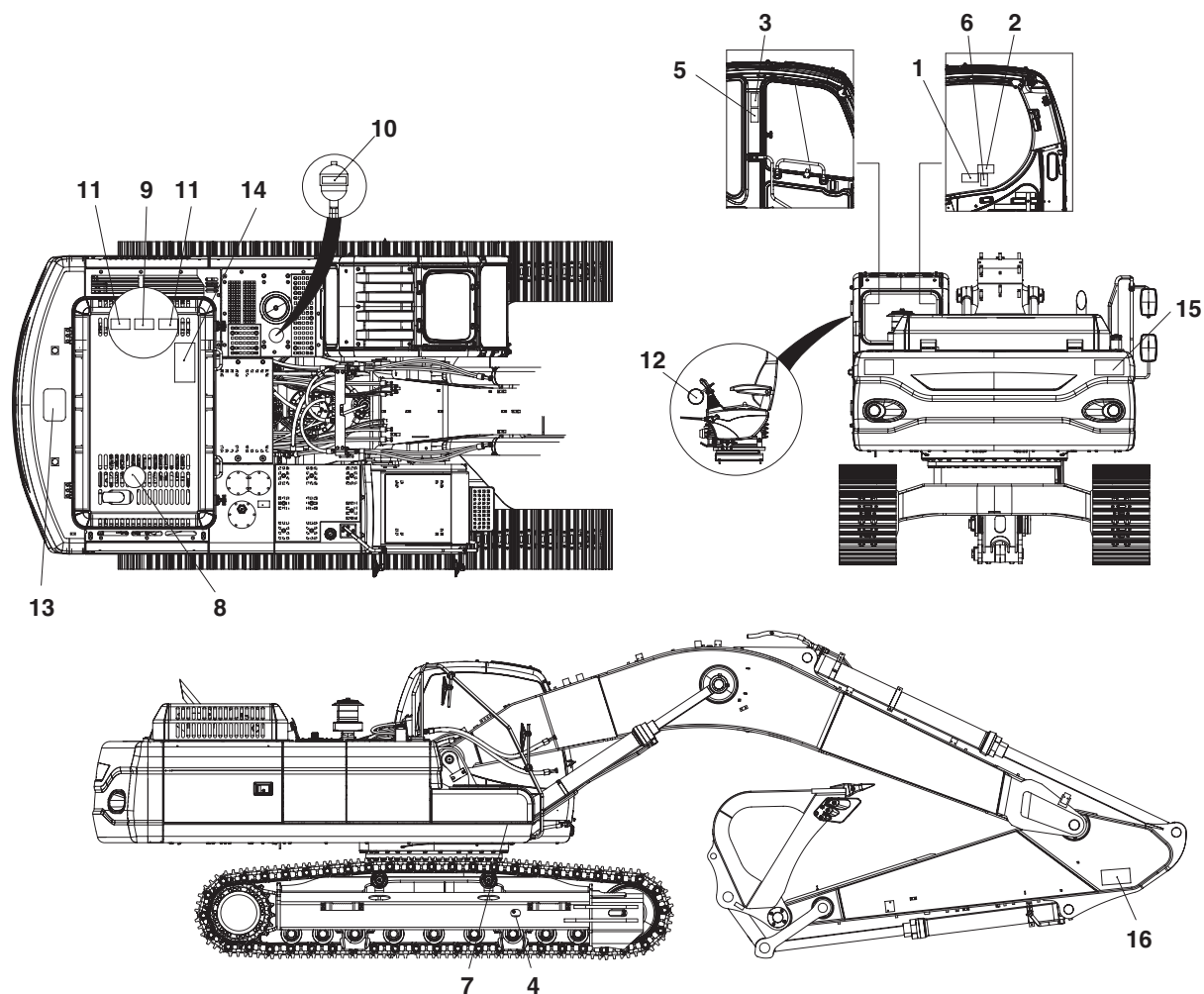
DANGER!

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 1-5 on.

DOOSAN 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 *DOOSAN* distributor.

LOCATION OF SAFETY LABELS



FG002258

Figure 1

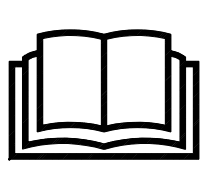
There are several specific warning signs on this machine. The exact location of hazards and the description of the hazards are reviewed in this section.

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.

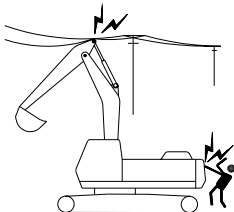
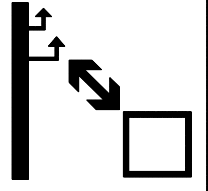
Replace any safety sign that is damaged, or missing. If a safety sign is attached to a part that is replaced, install a safety sign on the replacement part.

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
---	---

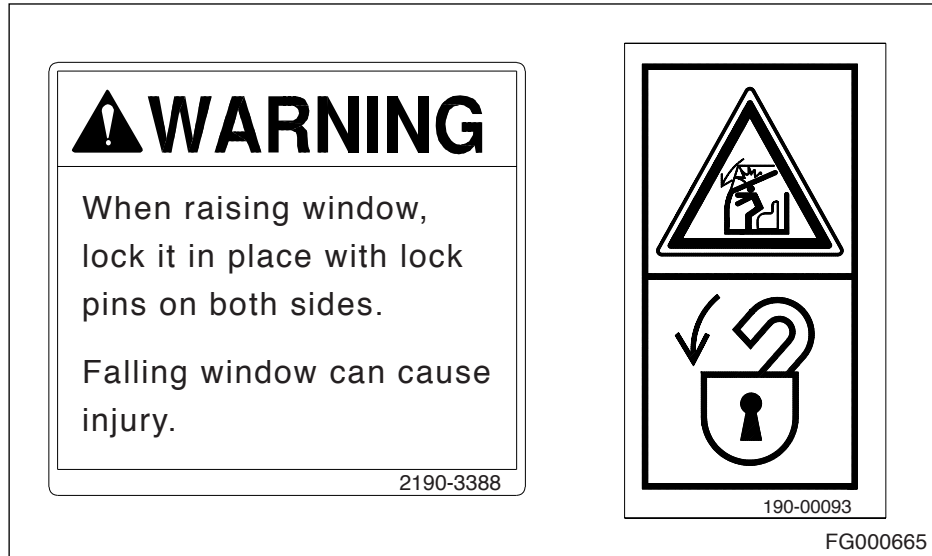
ARO1080L

2. Warnings for High Voltage (190-00689, 190-00096)

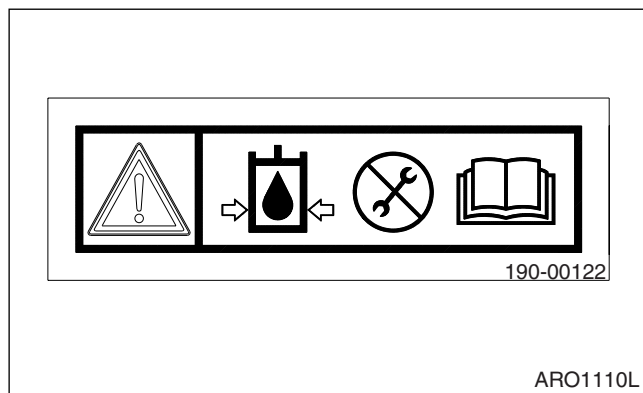
	⚠ DANGER SERIOUS INJURY OR DEATH BY ELECTROUTION can occur if machine or attachments are not a safe distance from electrical power lines. <table border="1"><thead><tr><th>Line voltage</th><th>Safe Distance</th></tr></thead><tbody><tr><td>6.6 kv</td><td>At least 3m(10ft)</td></tr><tr><td>66.6 kv</td><td>At least 5m(16ft)</td></tr><tr><td>275.0 kv</td><td>At least 10m(33ft)</td></tr></tbody></table> 190-00689	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)	  190-00096
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)									

ARO1090L

3. Warnings When Opening a Front Window (2190-3388, 190-00093)



4. Warnings for a High-pressure Cylinder (190-00122)



5. Warnings When Adjusting Track Tension (2190-3386A, 190-00521)

WARNING The track adjuster adjustment and handling • The spring in the track adjuster is loaded with great force and the pressure in the cylinder is very high. For this reason there is a possibility of an accident which may involve injury to personnel. It is very dangerous to make mistakes when performing such an adjustment or disassembly. • Be sure to read the procedures described in the Operation and Maintenance Manual carefully before adjusting the track tension. 2190-3386A	190-00521
--	---

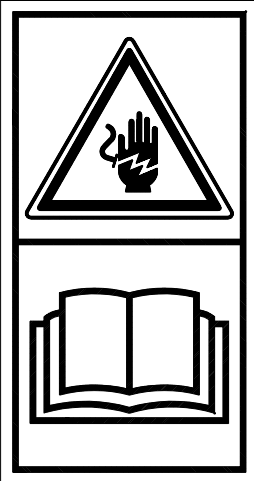
ARO1120L

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
---	---

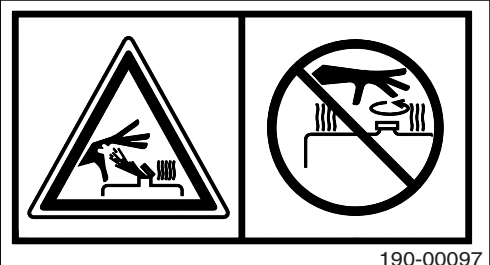
ARO1140L

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
--	--

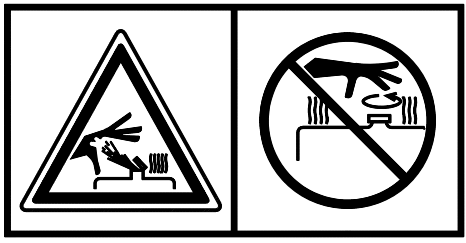
ARO1150L

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
---	---

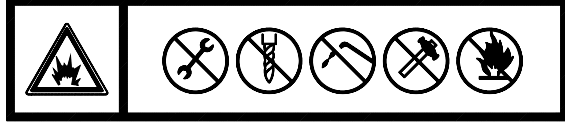
ARO1160L

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
---	---

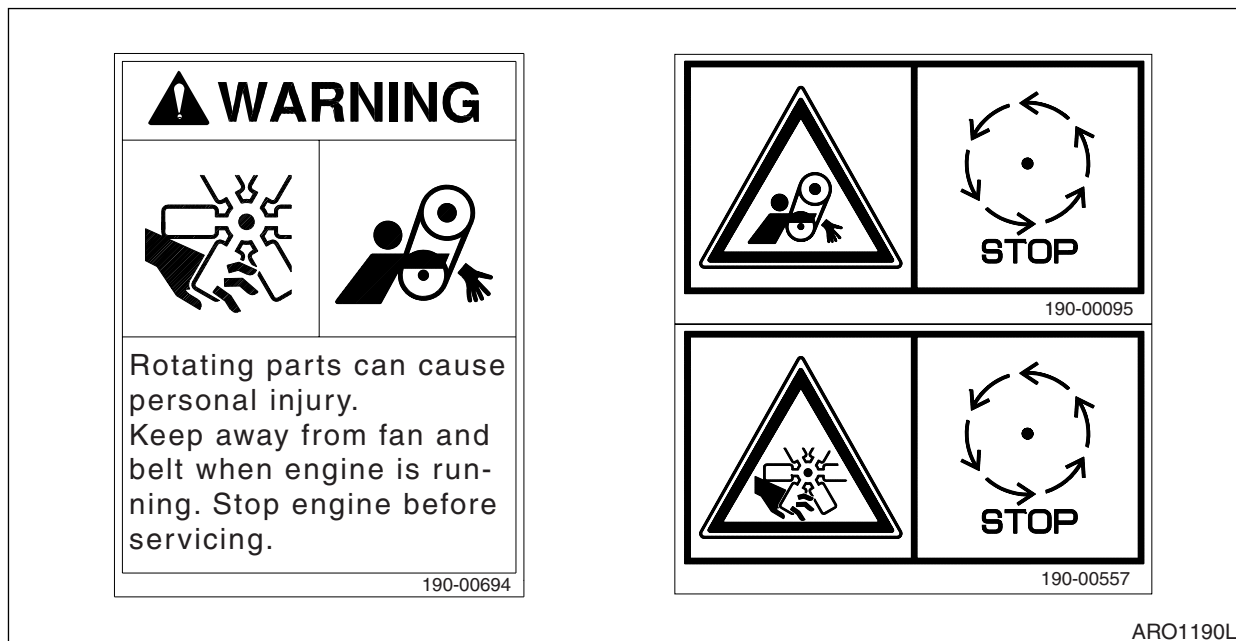
ARO1170L

10. Warnings for Handling an Accumulator (190-00703, 190-00099)

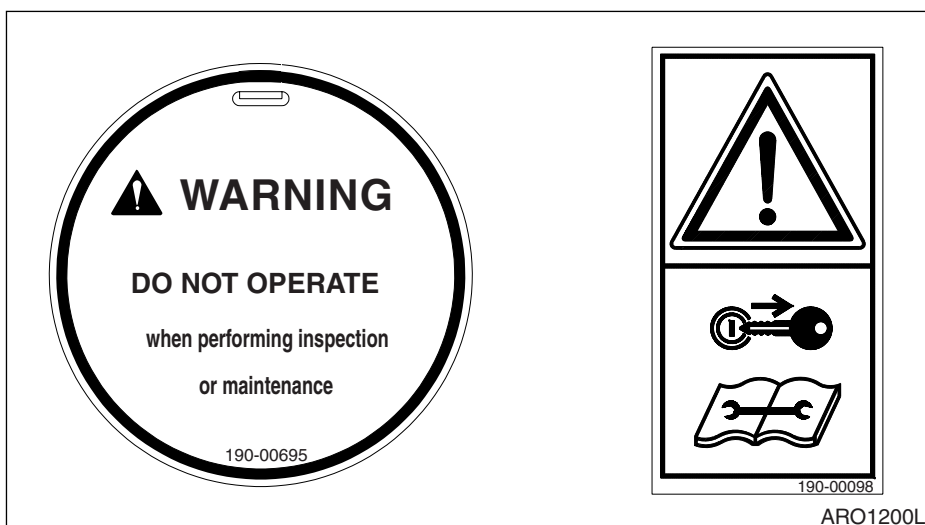
 WARNING EXPLOSION HAZARD 190-00703 • Keep away from flame. • Do not weld on, or drill into the accumulator.	 190-00099
---	---

ARO1180L

11. Warnings for Rotating Parts (190-00694, 190-00095, 190-00557)



12. Warning Tag - Used When Inspection and Maintenance (190-00695, 190-00098)



Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com