

INTRODUCTION

Welcome to the World of Yanmar Tractor

Thank you for purchasing Yanmar tractor product that has been designed and manufactured based on the Yanmar state-of-the-art technology and rich expertise in developing and manufacturing products.

Handle the tractor correctly by following the instructions in the operation manual so that the tractor will provide long years of reliable and predictable service.

The operation manual constitutes an indispensable part of the Yanmar tractor product. Always keep the operation manual readily accessible.

Carefully study the operation manual to get familiar with the instructions and informations contained in the operation manual. The instructions and informations are helpful in using the tractor correctly and safely, avoiding personal injury and other accidents during operation and servicing of the tractor. When using any implement together with the tractor, also carefully study the operation manual of the implement so that the operator can use the implement safely, correctly and efficiently.

The operation manual is organized with sections arranged in a particular order so that the operator can better understand the safety messages and the controls on the tractor to help the operator operate the tractor correctly and safely. The operation manual will also help the operator answer questions about operation and servicing.

The tractor shown in the operation manual may somewhat differ from the actual tractor. The operation manual will still assist the operator in understanding the instructions associated with the tractor. Before delivery of the tractor, your Yanmar Tractor dealer has performed a pre-delivery check to ensure that the tractor can long remain problem free.

Unless otherwise specified, the illustration shows YM351R.

All information, descriptions, specifications, drawings, illustrations, and pictures in this manual are based on the latest information available at the time this manual was published. Yanmar reserves the right to make changes at any time without prior notice.

PICTOGRAPHS

To help assist the operator in operating the tractor, various easy to understand pictographs have been created and are used throughout the operation manual. The pictographs are listed below together with the corresponding meanings.



Safety alert symbol

<Instrument panel>



Fuel level



Engine oil pressure



Alternator/Battery charging condition



Engine speed
x1000n/min



Hour meter



Engine coolant temperature



Power Take Off (PTO)



Parking brake

<Lights>



Turn signal



Clearance lamp



Headlight high



Headlight low



Hazard warning lights

<Starter key switch>



Engine start



Engine run



Engine shut-off

<Levers and knobs>



Power Take Off (PTO) OFF position



Power Take Off (PTO) ON position



Differential lock



Fast



Slow



Position control raised position



Position control lowered position



Hydraulic flow control/stop



Parking brake lock/unlock

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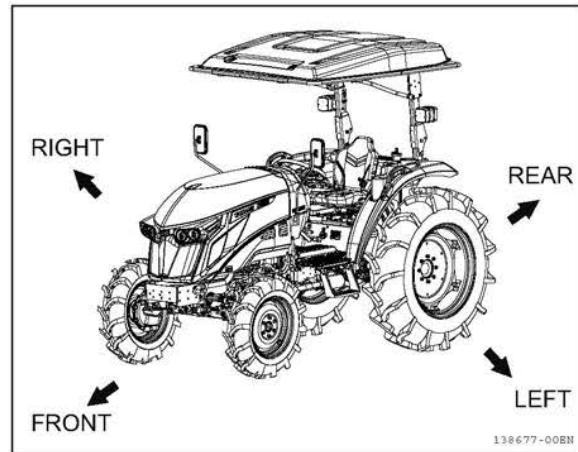
1. SAFETY PRECAUTIONS

1. About The Operation Manual

The operation manual presents messages that help the operator remain aware of potential hazards and possible tractor damage in operating and servicing the tractor. Carefully study all of the information in the operation manual so that the operator can avoid personal injury or property damage.

NOTE

- Unless otherwise stated, the expressions right hand side, left hand side, front side and rear side, used throughout the operation manual are relative to the operator's position.



2. Safety Alert Symbol



The safety alert symbol appears with most safety statements. The safety alert symbol means attention, become alert, the operator's safety is involved! Please read and strictly observe the message that follows the safety alert symbol.

DANGER

Indicates a hazardous situation which, if not avoided, *will* result in death or serious injury.

WARNING

Indicates a hazardous situation which, if not avoided, *could* result in death or serious injury.



WARNING: READ AND FOLLOW ALL INSTRUCTIONS IN THE OPERATION MANUAL BEFORE ATTEMPTING TO OPERATE THE TRACTOR. FAILURE TO COMPLY WITH THE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.



WARNING: The engine exhaust, some of its constituents and certain tractor components contain or emit chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



DANGER: The tractor is built to be operated according to the rules for safe operation in the operation manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. To help prevent accidents, read and take the following precautions before operating the tractor. Failure to observe the following safety instructions could result in serious injury or death.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

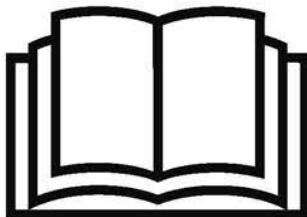
Indicates a situation which can cause damage to the tractor, personal property and/or the environment or cause the equipment to operate improperly.

IMPORTANT: Means that implement or property damage could occur if instructions are ignored.

NOTE: Provides useful information.

3. Precautions Before Operating the Tractor

- Understand the performance and limitations of the tractor. Carefully study the operation manual and learn the instructions in the operation manual before operating or servicing the tractor. Keep the operation manual in an easily accessible place. Do not operate the tractor with the mounted or trailed machinery or trailer unless all instructions in the operation manual have been followed.



- Strictly follow the statements given in the DANGER, WARNING and CAUTION safety decals attached to the tractor.
- Do not operate the tractor with the Roll-Over Protective Structure (ROPS) in the folded "down" position.

Keep the retractable seatbelt fastened while operating the tractor with the Roll-Over Protective Structure (ROPS) in the unfolded "up" position. The preceding practice will reduce the possibility of injury or death in the event of roll over accident.

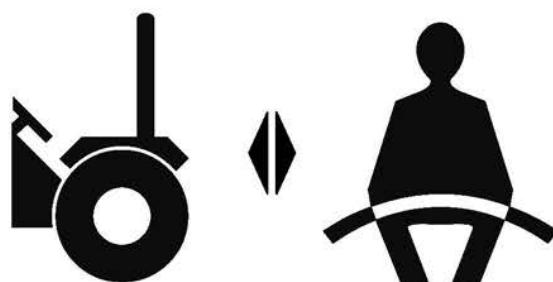
If the Roll-Over Protective Structure (ROPS) has been removed for any reason, ensure to install all the associated parts before operating the tractor. Do not alter the Roll-Over Protective Structure (ROPS). The altered Roll-Over Protective Structure (ROPS) may fail to provide the designed protection.

Replace the damaged Roll-Over Protective Structure (ROPS) immediately. Contact YOUR LOCAL YANMAR TRACTOR DEALER for technical assistance.

The foldable Roll-Over Protective Structure (ROPS) may be temporarily folded down when absolutely necessary for areas with height limitations. Remember that when the Roll-Over Protective Structure (ROPS) is in the "down" position, the Roll-Over Protective Structure (ROPS) does not provide operator protection and the retractable seatbelt should not be worn. NEVER alter or repair the Roll-Over Protective Structure (ROPS). Welding, bending, drilling, grinding, or cutting may weaken the Roll-Over Protective Structure (ROPS). Contact YOUR

LOCAL YANMAR TRACTOR DEALER for technical assistance.

- Always fasten the retractable seatbelt while operating the tractor with the Roll-Over Protective Structure (ROPS) in the unfolded "up" position. Check the retractable seatbelt for any damage. Replace the damaged retractable seatbelt immediately. Contact YOUR LOCAL YANMAR TRACTOR DEALER for technical assistance. Do not use the retractable seatbelt if the Roll-Over Protective Structure (ROPS) is in the folded "down" position.



- Check overhead clearance carefully before driving under power lines, wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator and/or Roll-Over Protective Structure (ROPS) may be struck, which could result in serious injury.
- Make sure that the usual operator and any other person who will operate the tractor studies the operation manual before operation. Know the controls and how to stop the tractor quickly.
- Make sure that any person or obstacle is not under or around the tractor before and during operation. Make sure to maintain sufficient overhead clearance above the tractor.
- Do not operate the tractor and/or implement installed on the tractor while under the influence of alcohol, drugs, medicine or controlled substance/s or when not fit to operate the tractor.
- During operation and when performing service work:
 - Wear close-fitting clothing.
 - Do not wear loose-fitting clothes, jewelry, baggy or torn clothing.
 - When any of the preceding items is caught by a moving part of the tractor, an accident can happen.
 - Do not wear cut-off pants or shorts which do not provide protection against flying debris.

1. SAFETY PRECAUTIONS

- Do not under any circumstances operate the tractor with bare feet.
 - Do not wear sandals or sneakers.
 - Wear additional protection including non-slip safety boots or shoes, protective goggles and gloves, etc., as appropriate or required by applicable local laws and regulations.
 - Wear ear protection in a noisy environment to prevent hearing damage and to reduce operator fatigue.
10. NEVER allow passenger/s on any portion of the tractor.
11. Always remain seated in the operator seat while operating the tractor.
12. Make sure that the brakes and other mechanical components are properly adjusted and do not have excessive wear.
- Immediately replace all excessively worn out or damaged components.
 - At regular intervals, check that all nuts, bolts and screws are properly tightened.
(For details, see "Chapter 12. MAINTENANCE" on page 12-1).
13. Always keep the tractor clean. Dust, grease or grass clippings accumulated on the tractor can lead to fire accidents or personal injury.
14. Use the handholds and running board step when getting on and off the tractor to help prevent accidental falls. Keep the running board step clear of mud and debris.
15. Only use the implements that satisfy the requirements in the operation manual or are approved by your Yanmar tractor dealer. (For details, see "Chapter 4. IMPLEMENT CAPACITIES" on page 4-1).
16. When using front or rear mounted implements, install an appropriate weight/s to the front or rear of the tractor to prevent upsetting the tractor.
17. Remember that a narrower tire tread width can lead to greater possibility of upsetting the balance of the tractor. To positively stabilize the tractor, select a maximum possible tire tread width appropriate for the intended application. Contact your local YANMAR tractor dealer for technical assistance.
18. Do not under any circumstances modify the tractor. Modification can deteriorate the performance and/or safety of the tractor, possibly leading to personal injury or property damage.
19. Do not attempt to adjust the low or high idle speed limit screw. Adjusting the low or high idle speed limit screw may impair the safety and performance of the tractor and shorten the life of the tractor.
20. Do not operate the tractor during thunderstorms. Lightning strikes can cause severe injury or even death.
21. Be extremely careful when operating the tractor in close vicinity of suspended power lines. Always be sure that the tractor will not touch the power lines. It can cause severe injury or even death.
22. Do not work with ROPS type when there is a possibility of objects falling from above.



14. Use the handholds and running board step when getting on and off the tractor to help prevent

4. Safe Practices for Operating the Tractor

1. Start the Tractor

1. Remain seated in the operator seat when starting the engine or actuating the levers or controls. Do not start the engine or operate controls while standing beside the tractor.
2. Before starting the engine, ensure that all the levers are in the N (neutral) positions, the parking brake is engaged securely, and Power Take Off (PTO) switch is in the OFF position.
3. Always keep the retractable seatbelt fastened around the operator's waist whenever the Roll-Over Protective Structure (ROPS) is in the unfolded "up" position and locked securely.

4. If the tractor is started where there is a height limitation, immediately return the Roll-Over Protective Structure (ROPS) to the unfolded "up" position and locked securely and fasten the retractable seatbelt.
5. Start the engine of the tractor only by using the starter key switch. Avoid starting the engine by short circuiting across the starter solenoid terminals with a jumper wire, or by bypassing the safety start switch. This defeats the safety interlock circuit and the tractor may begin to move and/or the Power Take Off (PTO) shafts may begin to rotate, possibly leading to personal injury or property damage.

1. SAFETY PRECAUTIONS

6. Avoid running or idling the engine in a confined area that is poorly ventilated or not ventilated at all. The engine emits carbon monoxide gas that is colorless, odorless and can cause death.



7. Before operation, check that all the safety features are functioning correctly. Never tamper with safety devices. Check the proper operation regularly. Contact YOUR LOCAL YANMAR TRACTOR DEALER for safety devices malfunction.
8. Avoid accidental contact with control pedals and levers while the engine is running, as this can cause unexpected movement of the tractor.
9. Always attend to the running tractor.

2. Work with the Tractor

1. Safety is the top priority when a fire broke out. If you notice the smell of smoke or sight of flames, immediately get off the machine and move away from the fire. Never return to the machine. Call the fire department as soon as it is safe to do so.
2. To prevent fire, check and clean the engine room and keep it clean at all times.
3. Tow an implement only with the drawbar. Avoid hitching via the axle housing. The tractor can upset its balance, leading to serious injury or death. Make sure the drawbar pin is locked in place.
4. Any towed vehicle with the total weight exceeding that of the tractor should be equipped with its own braking system that is operational from the tractor operator seat.
5. Make sure that all the covers and guards are in position. Replace any missing or damaged covers immediately.
6. Before turning or during traveling on a rough terrain, or before stopping, decrease the tractor speed in order to prevent upsetting.
7. Use extra caution during operating over rough ground, when crossing ditches or operating on slopes and when turning corners.
8. Avoid turning with the differential lock engaged. Attempting to turn the tractor while the differential lock is engaged can lead to a roll over.

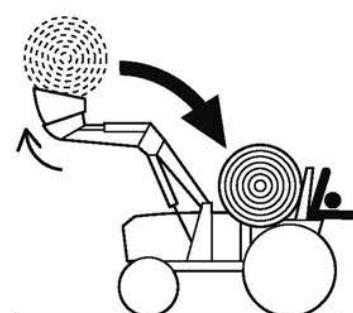
9. Stay clear of ditches, potholes, embankments or ponds. The incident of upsetting the tractor can occur more on soft or wet ground. Before entering an area covered with tall grass, inspect the area to detect any obstacles.
10. The operator should always pay attention for blind corners, trees and other object that can obstruct the operator's vision. The operator should always remain alert when approaching the row of trees or any obstacle.
11. When two or more people are working in one area, always keep in good communication between each other.
12. Do not under any circumstances get on or off the moving tractor.
13. When driving at night, ensure that all necessary lights are illuminated.
14. When driving, do not shift the range gear. Always shift the range gear when the tractor is completely stopped.
15. Avoiding the falling objects.

Be careful when handling large or heavy objects, as there is a danger of the tractor rolling over, or of the object falling off the loader boom onto the operator.

- Never lift a large object with an attachment that may allow the object to roll back onto the operator.
- Do not carry large objects that can fall out of loader bucket into operator's station.
- Do not carry transport or move round or square bales with the bucket attachment.
- Never lift loader higher than necessary to clear ground.
- Move slowly and carefully. Avoid rough terrain.

Front loader attachment points are provided. Never mount loader that is not approved for the YANMAR tractor.

Consult your local YANMAR tractor dealer.



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1. SAFETY PRECAUTIONS

3. Stop the Tractor

The procedures of stopping the tractor are as follows:

1. Make sure that the left side brake pedal and the right side brake pedal are connected with the brake pedal connector lock.
2. Reduce the engine speed.
3. Depress the clutch pedal completely to disengage the clutch.
4. Depress the brake pedals to stop the tractor.
5. Shift reverser lever to the N (neutral) position.

4. Considerations for Safety of a Child

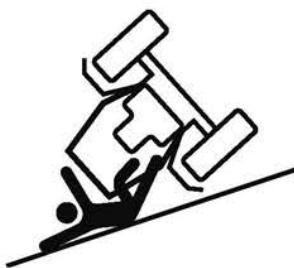
Tragic accidents can occur if the operator is not alert to the presence of a child. A child is often attracted to the tractor. A child does not understand the dangers. Never assume a child will remain where the operator last saw the child.



1. Keep a child out of the operating area and under the watchful care of an adult other than the operator.
2. Be alert if a child enters the work area, stop the tractor immediately.
3. Never allow a child to ride on the tractor. The child can fall off and be seriously injured or interfere with safe tractor operation.
4. Never allow a child under 16 years old to operate the tractor. A child, 16 years old and under should only operate the tractor under close parental supervision and proper instruction.
5. Be extremely careful when backing the tractor. Before and during backing, look back and downward. A child may be in the path.
6. Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure the operator's vision of a child or other hazard.
7. Never allow a child to play on the tractor or implement.
8. Keep a child away from hot or running engine. The child may suffer burns.

5. Operate the Tractor on Slopes

On a slope, the tractor is less stable and more prone to tip over, possibly leading to serious injury or death. Remain very cautious while the tractor is on any slope.



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DO:

- Operate up and down slopes, not across.
- Remove obstacles such as rocks, limbs, etc.
- Watch for potholes, ruts or bumps. Uneven terrain can overturn the tractor. Tall grass can hide such obstacles.
- Place the transmission in the low range and engage the 4-wheel drive when climbing or descending slopes. Always keep the tractor in gear when going down slopes to take advantage of engine braking action.

- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid engagement or braking can cause the front of the tractor to lift and rapidly tip over backwards which can cause serious injury.
- Avoid starting or stopping on a slope. If tires lose traction, push down Power Take Off (PTO) switch to OFF position and proceed slowly straight down the slope.
- To avoid upset, move backward up a steep slope. If backing on the slope is difficult, do not attempt to continue. Avoid an extremely steep slope.
- When moving forward to get out from a ditch, deep mud or when traveling on a steep slope, the risk of the tractor upsetting backward is high. Always move backward to get out from these situations. In the 4-wheel drive mode, special caution is needed to avoid false confidence in the tractor's ability to climb slopes.
- To improve stability on a slope, select the widest possible tire tread width. Observe the instructions for appropriate weighting.

1. SAFETY PRECAUTIONS

DO NOT:

- Do not drive near the edge of a gully or a steep embankment.
Avoid holes, ditches, etc. which may cause the tractor to tip over, especially on hillsides or steep slopes.

WARNING

- Keep away from slopes steeper than 15 degrees. See page 8-11 "Operate on Slopes and Rough Terrain" for the details.
- Before approaching a slope, select an appropriate speed setting. Make sure to run the tractor at a lower speed on slopes. Never attempt to shift gears on a slope. The tractor can suddenly go downhill out of control. Avoid increasing and decreasing the tractor speed rapidly.
- Do not move the range shift lever in the N (neutral) position when on a slope.
- When climbing or descending a slope, do not shift the range shift lever. Shifting the range shift lever into the N (neutral) position can result in loss of control of the tractor.
- Starting the tractor with the front end uphill can cause the front wheels to jump off the ground and this situation poses an extreme danger. To avoid this problem, run the engine at a lower speed, and gently start the tractor.
- Avoid parking the tractor on a slope. If parking on a slope is unavoidable, chock all the tires safely and securely and engage the parking brake securely, for details, see "7. Lock and Set the Parking Brake" on page 7-3.
- Avoid depressing the clutch pedal when operating on a slope.

6. Travel on a Road

1. Disengagement of the 4-wheel drive is recommended.
2. Remember that the braking characteristics differ between the 2-wheel drive and 4-wheel drive modes. Be aware of the current drive mode and use carefully.
3. Release the clutch pedal slowly.
4. Before turning, always slow down the tractor. High speed turn may cause the tractor to tip over.
5. When traveling on a road, use the hazard lights and turn signal lights as required by the currently effective local laws or regulations.
6. Strictly observe all the currently effective local traffic and safety laws and regulations.
7. Turn ON the headlights as required by the currently effective local laws or regulations.
8. Always travel at a speed that allows the operator to maintain control of the tractor.
9. NEVER engage differential lock while traveling on a road. It may cause the operator to lose control of the tractor.
10. While traveling on a road, do not turn the steering wheel suddenly. Such an action can lead to loss in the stability of the tractor and can cause an extremely dangerous situation.
11. While on a road, do not attempt to operate an implement. During transportation, place the 3-point hitch control lever in the raised position and lock the 3-point hitch control lever with the position stop knob. Do not fully close the hydraulic flow control/stop knob to hold an implement in the raised position while the tractor is traveling with the implements. The preceding action can cause damage to the hydraulic lift circuit.
12. When towing implement, connect a safety chain to the implement.

1. SAFETY PRECAUTIONS

13. Use safety lights and devices at night because slow moving tractors on public road are hard to see.
14. Make sure that the left brake pedal and right brake pedal are connected with the brake pedal connector lock. Do not release the brake pedal connector lock while traveling on a road.

7. Safe Practices for Parking the Tractor

1. Press the Power Take Off (PTO) switch to OFF position, ALWAYS lower the implements and attachments to the ground, move all the levers to N (neutral) position, engage the parking brake securely, for details, see "7. Lock and Set the Parking Brake" on page 7-3, shut off the engine and remove the key.
2. Before leaving the tractor, ensure that the tractor is completely stopped.
3. Avoid parking the tractor on a steep slope. Rather, park on solid and level ground whenever possible. If parking on a slope is unavoidable, park the tractor across the slope and lower the implement to the ground and chock all the tires safely and securely.

8. Operate the Power Take Off (PTO)

1. Before connecting/disconnecting, adjusting, cleaning or servicing Power Take Off (PTO) driven implement, ensure that the engine is not running and that all the moving components are not moving.
2. Make sure that Power Take Off (PTO) shaft cap is always in place. Replace Power Take Off (PTO) shaft cap only when the shaft is not moving.
3. Before installing or operating the Power Take Off (PTO) driven implement, carefully study the operation manual of the implement and the safety decals on the implement.



4. When installing stationary Power Take Off (PTO) driven implements, ensure to engage the parking brake securely, for details, see "7. Lock and Set the Parking Brake" on page 7-3, chock all the tires safely and securely. Avoid approaching or accessing any rotating component.
5. Make sure to remove the drawbar before using the Power Take Off (PTO).

9. Use the 3-Point Hitch

1. Use the 3-point hitch only in conjunction with the implement that is specifically designed for use with the 3-point hitch.
2. Before using the 3-point hitch mounted implement, the appropriate weight may need to be installed on the front of the tractor.
3. While on a road, do not attempt to operate an implement. During transportation, place the 3-point hitch control lever in the raised position and lock the 3-point hitch control lever with the position stop knob. Do not fully close the hydraulic flow control/stop knob to hold an implement in the raised position while the tractor is traveling with the implement. The preceding action can cause damage to the hydraulic lift circuit.

10. Roll-Over Protective Structure (ROPS) Precautions

The tractor is equipped with a Roll-Over Protective Structure (ROPS) which must be maintained in a fully functional condition. Check overhead clearance carefully before driving under power lines, wires, bridges or low hanging branches, before entering or leaving buildings, or in any other situation where the operator and/or Roll-Over Protective Structure (ROPS) can be struck, which can result in serious injury.

1. Always keep the Roll-Over Protective Structure (ROPS) on its original condition.
2. Replace the Roll-Over Protective Structure (ROPS) whenever the Roll-Over Protective Structure (ROPS) has been damaged. The

preceding action can weaken the structure and endanger the safety of the operator.

Contact your local YANMAR tractor dealer for technical assistance.

3. Use only genuine parts to replace any damaged part/s of the Roll-Over Protective Structure (ROPS).
4. Never attach ropes, chains or cables to the Roll-Over Protective Structure (ROPS) for pulling purposes.
5. Although the Roll-Over Protective Structure (ROPS) provides the operator protection in accordance with the regulations and relevant standards at the time of manufacture, ALWAYS take the necessary precautions.

11. Safe Practices for Servicing the Tractor

Before starting any service work, park the tractor on solid and level ground, engage the parking brake securely, for details, see "7. Lock and Set the Parking Brake" on page 7-3, lower the implement to the ground, move all the levers to N (neutral) position, press the Power Take Off (PTO) switch to OFF position, shut off the engine and remove the key. Only trained adults should service the tractor. Understand the instructions in the Operation Manual before servicing.

1. Always keep a first aid kit and a fire extinguisher readily available.
2. Before accessing the engine, muffler, radiator and radiator cap or other possibly hot components, wait until the tractor has fully cooled down.
3. Keep the tractor and the attachments free of grass, leaves or other debris build-up.



4. Use extreme care in handling diesel fuels. Diesel fuels are extremely flammable and the vapors are explosive.
5. Close fuel shut-off valve before servicing the fuel system.

6. Make sure to shut off the engine before refueling. After refueling, replace fuel filler cap securely and wipe off any spilled diesel fuel before starting the engine as the diesel fuel may cause a fire or explosion.
7. Do not smoke while refueling. Keep any spark or open flame away from the fuel tank.
8. Never refuel the tractor indoors because diesel fuel vapors will accumulate in the area.
9. Never store the fuel container or tractor indoor where there is an open flame or spark, such as a gas water heater, space heater or furnace.
10. Do not smoke while working around the battery. Keep any sparks or open flame away from the battery. The battery emits hydrogen and oxygen gasses, in particular during recharging and can pose a hazard of explosion.



11. Prior to "jump starting" a tractor that has fully depleted battery, read and follow all the instructions in "Chapter 14. SERVICE THE ELECTRICAL SYSTEM" on page 14-1.

1. SAFETY PRECAUTIONS

12. Add coolant or water to the reserve tank, not to the radiator (For details, see "Check the Cooling System" on page 13-13).



13. Before working on or around electrical components, disconnect the negative (-) battery terminal first.
14. To prevent a spark occurring from short circuit, disconnect the negative (-) battery terminal first and reconnect last.



15. The operator must not mount a tire onto a rim. Only qualified person must mount tire onto a rim.
16. Always keep the tires at the correct tire air pressure level. Avoid exceeding the recommended tire air pressure specified in the operation manual.



17. Wheel bolts must be tightened to specified torque using the proper procedure anytime it is loosened.
18. Keep the tractor securely supported while changing the wheels or adjusting the tire tread width. Make sure to tighten the wheel bolts to the specified tightening torque.
19. Avoid working under any hydraulically supported devices. Such devices can leak, suddenly settle down, or be accidentally lowered. If working beneath the tractor or an implement is

unavoidable, ensure to use a stand or lift apparatus with the capacity of more than 3 tons.

20. High pressure hydraulic fluid when released can penetrate human skin, possibly leading to serious personal injury. Before disconnecting any hydraulic line, fully release the internal pressure. Before exerting a pressure to the hydraulic system, ensure that all connections are tight and all the lines, pipes and hoses are free from fractures/fissures or any other damage.
21. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
22. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



23. Check brake operation frequently. Adjust and service as required.
24. Keep all bolts and nuts tightened, make sure the tractor and the attachment is in safe working condition.
25. Avoid changing the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
26. Observe proper waste disposal laws and regulations. Prior to disposal, determine the proper method to dispose of waste from your local Environmental Protection Agency. Recycling centers are established to properly dispose of materials in an environmentally safe fashion.
27. Use container approved by the effective law when draining fluids. Avoid using food or beverage containers that can mislead someone into drinking from food or beverage containers. Properly dispose of the containers immediately following the draining of fluids.

1. SAFETY PRECAUTIONS

28. Observe your local Environmental Protection Agency regulations when disposing of oil, fuel, coolant, brake fluids, filters, batteries, tires and other harmful waste.

29. Yanmar does not recommend the use of a pressure washer or garden hose to clean the tractor. Electrical components, spindles, pulleys, bearings or the engine can be damaged. The use of water will result in shortened life and reduce serviceability.



WARNING: THE OWNER/OPERATOR RESPONSIBILITY: Restrict the use of the tractor to persons who read, understand and follow the warnings and instructions in the operation manual and on the tractor.

12. Replace the Rubber Product/s, such as Hydraulic Hose, Fuel Hoses, Power Steering Hoses, Radiator Hoses and Air Intake Hose for Every 2 Years

The rubber product/s has/have a deteriorative character. The deteriorated rubber product/s may cause defects and damages such as fluid leakage, loss control of the tractor during operation, fire, burn injury.

13. This Tractor is not Designed for Forest Industry, Quarry or Mining Use, nor Designed for Use with Crop Spraying Equipment

14. Handle Agricultural Chemicals Safely

NOTE

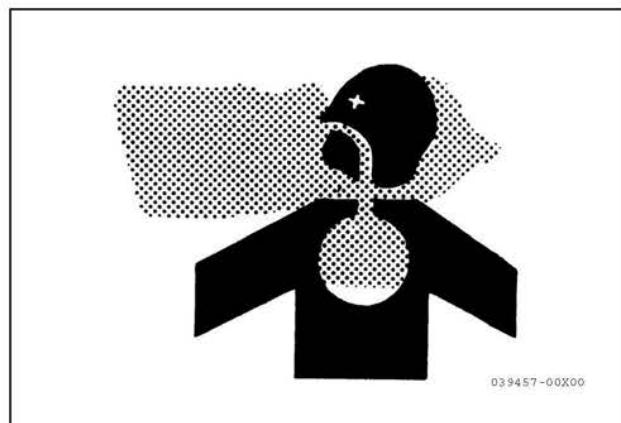
- This tractor is not equipped with a cabin. The instructions below also include instructions with the cabin installed.

■ Handle Agricultural Chemicals Safely

Chemicals used in agricultural applications such as fungicides, herbicides, insecticides, pesticides, rodenticides, and fertilizers can be harmful to your health or the environment if not used carefully. Always follow all label directions for effective, safe, and legal use of agricultural chemicals.

■ Reduce Risk of Exposure and Injury

- Wear appropriate personal protective equipment as recommended by the chemical manufacturer. In the absence of manufacturer's instructions, follow these general guidelines:
 - Chemicals labeled "**Danger**": Most toxic. Generally require use of goggles, respirator, gloves, and skin protection.
 - Chemicals labeled "**Warning - Chemicals labeled "**Caution**": Least toxic. Generally require use of gloves and skin protection.**



1. SAFETY PRECAUTIONS

- Avoid inhaling vapor, aerosol or dust.
- Always have soap, water, and towel available when working with chemicals. If chemical contacts skin, hands, or face, wash immediately with soap and water. If chemical gets into eyes, flush immediately with water.
- Wash hands and face after using chemicals and before eating, drinking, smoking, or urination.
- Do not smoke or eat while applying chemicals.
- After handling chemicals, always bathe or shower and change clothes. Wash clothing before wearing again.
- Seek medical attention immediately if illness occurs during or shortly after use of chemicals.
- Keep chemicals in original containers. Do not transfer chemicals to unmarked containers or to containers used for food or drink.
- Store chemicals in a secure, locked area away from human or livestock food. Keep children away.
- Always dispose of containers properly Triple rinse empty containers and puncture or crush containers and dispose of properly.
- Dispose of filter with hazardous pesticide according to published regulations or directives.
- For the training and education of an agricultural chemical, refer to the instruction manual for that agricultural chemicals.

■ Avoid Contact with Agricultural Chemicals

This enclosed cab does not protect against inhaling vapor, aerosol or dust.

The tractor shall not be used under conditions requiring protection against hazardous substances.

- When operating in an environment where pesticides are present, wear a long-sleeved shirt, long-legged pants, shoes, and socks.
- If pesticide use instructions require respiratory protection, wear an appropriate respirator inside the cab.
- Wear personal protective equipment as required by the pesticide use instructions when must be cleaned, enclosed cab:
 - into a treated area
 - to work with contaminated application equipment such as nozzles which must be cleaned, changed or redirected
 - to become involved with mixing and loading activities
- Before re-entering the cab, remove protective equipment and store either outside the cab in a closed box or some other type of sealable container or inside the cab in a pesticide resistant container, such as a plastic bag.
- Clean your shoes or boots to remove soil or other contaminated particles prior to entering the cab.



048591-00X00

1. SAFETY PRECAUTIONS

■ Clean Vehicle of Hazardous Pesticides

During application of hazardous pesticides, pesticide residue can build up on the inside or outside of the vehicle. Clean vehicle according to use instructions of hazardous pesticides.

When exposed to hazardous pesticides, clean exterior and interior of vehicle daily to keep free of the accumulation of visible dirt and contamination.

- Sweep or vacuum the floor of cab.
- Clean headliners and inside cowlings of cab.
- Wash entire exterior of vehicle.
- Dispose of any wash water with hazardous concentrations of active or non- active ingredients according to published regulations or directives.

15. Understand the Tractor Safety Decals

■ Safety Alert Symbol

The tractor safety decals illustrated in this section are provided in critical areas on the tractor so that people including the operator can remain always aware of potential hazards.

The tractor safety decals contain the words DANGER, WARNING and CAUTION together with the safety alert symbol. DANGER and WARNING stand for the most serious hazards.

The operation manual also contains special safety messages that explain potential hazards about which the operator must remain cautious. The messages are presented together with the word CAUTION and the safety alert symbol.

■ Care of DANGER, WARNING and CAUTION Decals

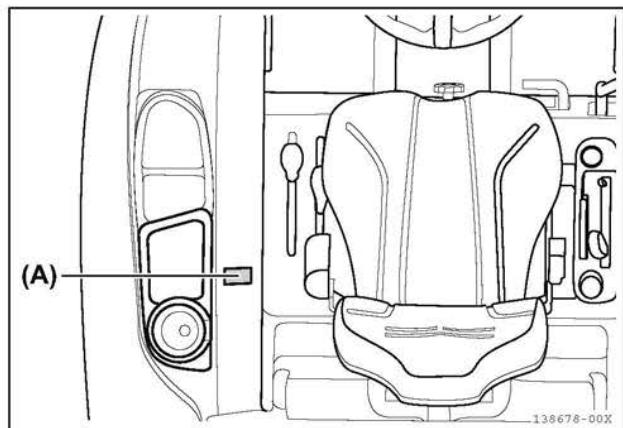
1. Always keep all the DANGER, WARNING and CAUTION decals clean and clearly legible.
2. Clean the DANGER, WARNING and CAUTION decals with soap and water, wipe dry with clean soft cloth.
3. Replace damaged or missing DANGER, WARNING and CAUTION decals with new decals available from YOUR LOCAL YANMAR TRACTOR DEALER.
4. If a component having a DANGER, WARNING and CAUTION decals is replaced with a new decal, ensure that the new decal is on the same location as of the old component.
5. Affix a new DANGER, WARNING and CAUTION decals flat on a clean and dry surface, squeezing out trapped air.

1. SAFETY PRECAUTIONS

(A) 1A8310-65950

⚠ WARNING

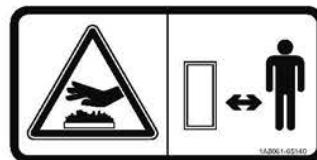
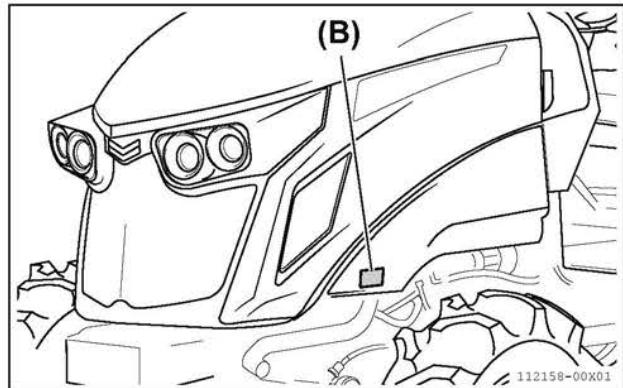
- This structure's protective capability may be impaired by structural damage, overturn, or alteration. If any of these conditions occur, this structure must be replaced.



(B) 1A8061-65140

⚠ CAUTION

Stay clear of hot surface.
Do not touch hot surface like exhaust muffler,
etc.



1. SAFETY PRECAUTIONS

(C) 1A8252-65400



STAY CLEAR OF ENGINE FAN AND FAN BELT.

(D) 1A8252-65120



Fingers or hand entanglement rotating parts.
Put safety shield in place while engine is
running or machine is moving.

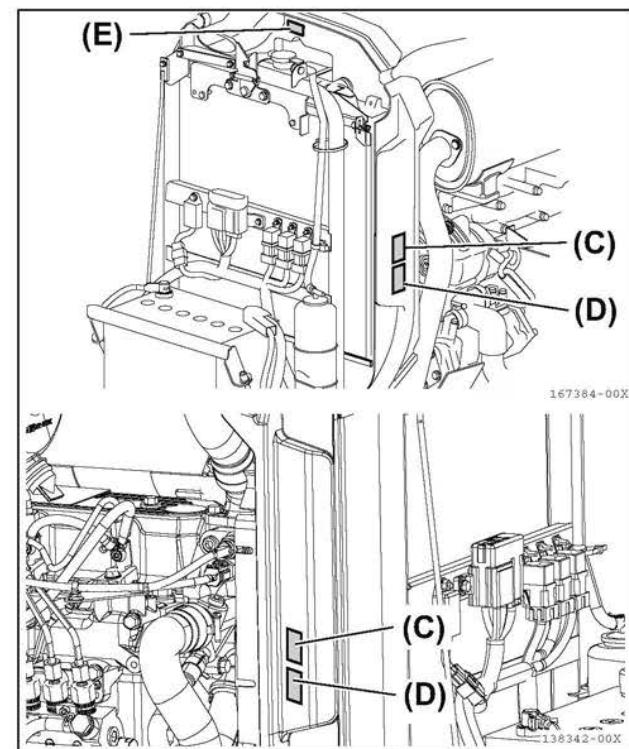
(E) 1A8061-65150



Do not open the radiator cap at high
temperature.
Hot water may blow out and cause burns.
Always allow the tractor to fully cool down
before accessing the radiator.

*The hood is open.

Refer to page 13-3 on how to open the hood. Same
labels are attached on the other side.



(C)



(D)



(E)



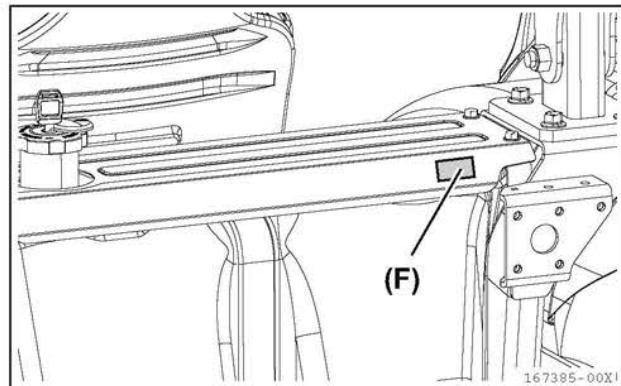
1. SAFETY PRECAUTIONS

(F) 1A8061-65110

⚠ WARNING

AVOID INJURY FROM PTO

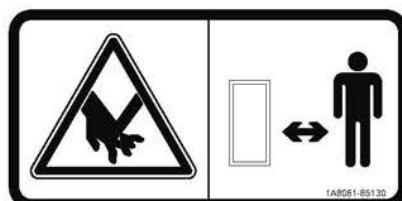
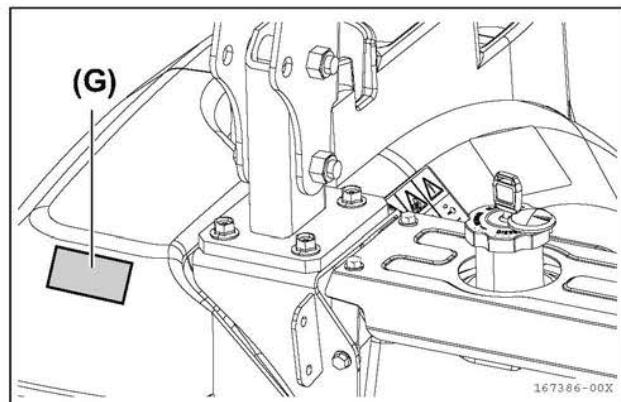
- Do not approach the body to Engine or PTO shaft in operation.
- There is the possibility of getting injured by pinching.



(G) 1A8061-65130

⚠ WARNING

Stay clear of moving parts area as long as tractor engine is running with PTO connected.

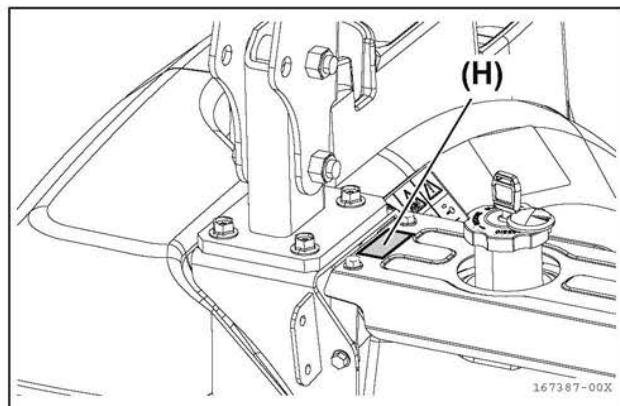


1. SAFETY PRECAUTIONS

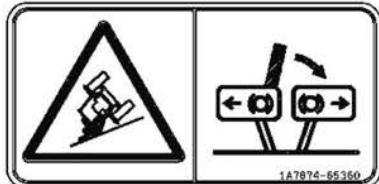
(H) 1A8330-65930

⚠ WARNING

1. Use extreme care in handling diesel fuels. Diesel fuels are extremely flammable and the vapors are explosive. Use only a container approved by the local effective law.
2. Make sure to shut off the engine before refueling. After refueling, replace fuel filler cap securely and wipe off any spilled diesel fuel before starting the engine as the diesel fuel may cause a fire or explosion.
3. Do not smoke while refueling. Keep any spark or open flame away from the fuel tank.
4. Never refuel the tractor indoors because diesel fuel vapors will accumulate in the area.
5. Never store the fuel container or tractor indoor where there is an open flame or spark, such as a gas water heater, space heater or furnace.

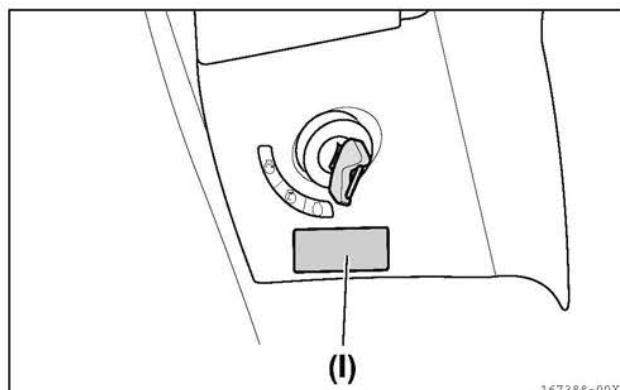


(I) 1A7874-65360



⚠ WARNING

Make sure that the left brake pedal and the right side brake pedal are connected with the brake pedal connector lock. Do not release the brake pedal connector lock while traveling on a road.

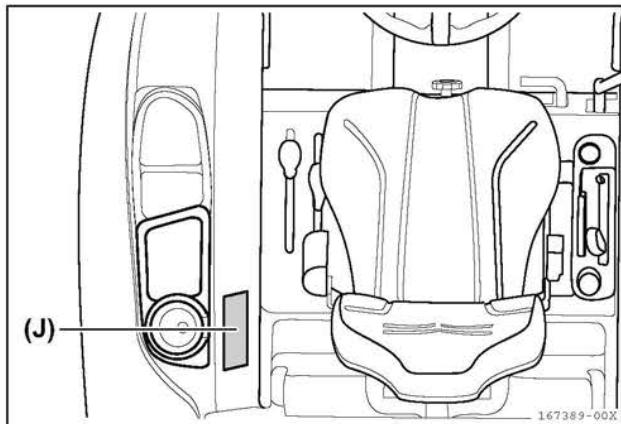


1. SAFETY PRECAUTIONS

(J) 1A8310-65310

! WARNING

- Read and understand operation manual carefully.
- Stop the engine and remove key before servicing.
- Avoid entanglement. Always keep hands away from rotating parts.
- Keep a safe distance from the machine.
- Never allow passenger/s on any portion of the tractor.



! DANGER

TO AVOID INJURY OR DEATH:

- Do not start engine by shorting across starter terminals or bypassing safety start switch.
- Start engine only from seat with transmission and PTO OFF.

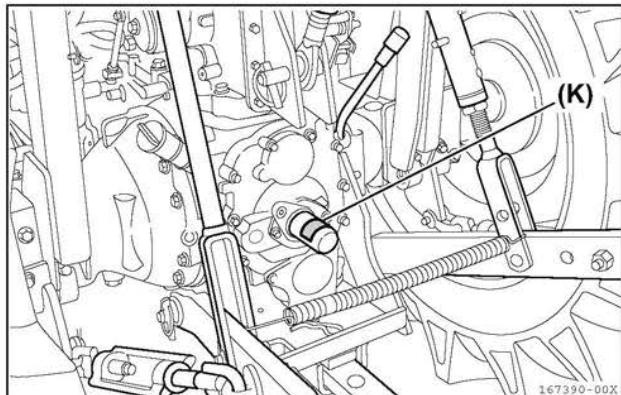


(K) 1A8061-65110



! WARNING

- Do not approach the body to Engine or PTO shaft in operation.
- There is the possibility of getting injured by pinching.



2. SERVICE THE TRACTOR

Your Yanmar tractor dealer is committed to provide reliable and quality services to the tractor. Through the preceding services, the full performance potential of the tractor can be realized.

After carefully studying the contents of the operation manual, the tractor owner/operator can perform certain regular maintenance work.

- Exercise caution so as not to injure the operator and other persons.
- Do not attempt to do work that is beyond the owner/operator capability and knowledge.

When in doubt, always consult YOUR LOCAL YANMAR TRACTOR DEALER.

For information about servicing, contact YOUR LOCAL YANMAR TRACTOR DEALER.

For new parts and components and major service work, contact YOUR LOCAL YANMAR TRACTOR DEALER for technical assistance.

(A) Tractor identification plate with tractor serial number

When ordering a part or component, always provide the serial numbers of the following to YOUR LOCAL YANMAR TRACTOR DEALER:

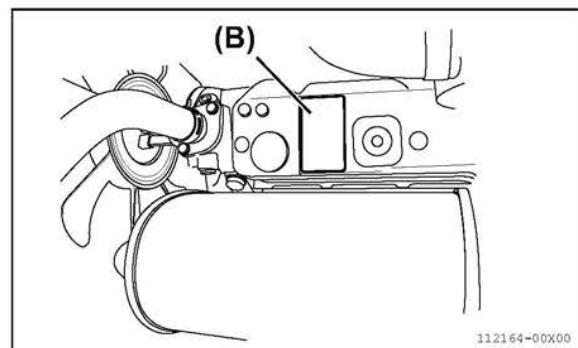
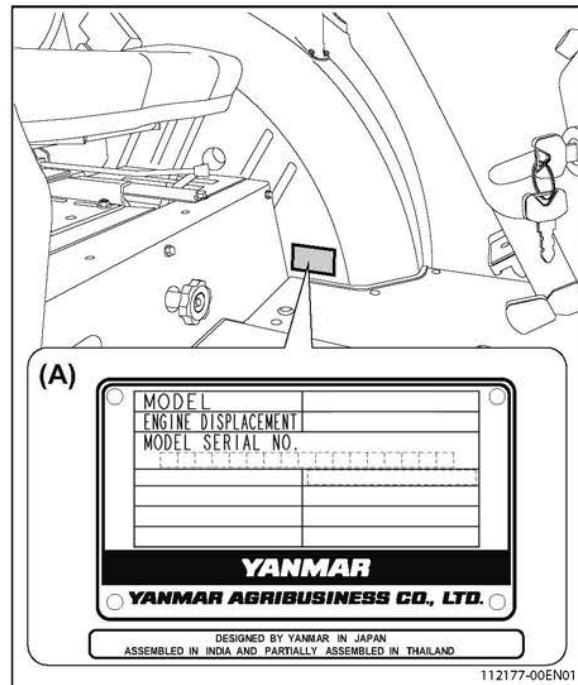
- Tractor
- Engine

(B) Engine serial number

After accepting delivery of the tractor, immediately find the serial numbers and enter the numbers into the following table.

- The information in the table must come in handy, if for some reason, the serial numbers on the tractor are covered, erased or become illegible.

	Type/Model	Serial No.
Tractor		
Engine		
Date of Purchase		
Name of Dealer		



"Operational Status Information" about the Owner's Machine

Yanmar tractor YM351R/YM358R, of your machine, mounts which has the function for "Operational Status information."

Yanmar can get and use "Operational Status information" with "Fault diagnostics tool" and "Machinery Management system."

What is "Operational Status information"?

The following data for the machine operational control are-

- Each sensor data on temperature, angles and the operational lever
- Error data of abnormal sensor and irregular control values
- Information data, such as operating time and fuel consumption.
- The information from GNSS sensor, such as location data.
* The actual obtainable information varies with the owner model.

Reason and purpose to get "Operational Status information"

- Communication service for the owner, via the website, such as the machine operational management.
- Service suggestion system for the owner, such as the maintenance proposal, according to the operational hours.

NOTICE

- This system uses the mobile phone service network by a communication carrier. The communication may not be available due to the conditions of the area, the line, which might be congestion and so on.
- Machine management system may be out of use due to the communication service contracts change or suspension by the communication carrier.
- The communication terminal and antenna may need the certification by the radio law. It may be punishable by the law if reselling, destructing the machine or taking the machine out to overseas. Please consult with the dealership of your machine or Yanmar.
- If may be punishable by the law if conducting the disassembly/modification of the communication terminal, the antenna and changing the display nameplates.
* It requires a separated contract to use "Machine Management system."

1. "Fault Diagnostics Tool"

By connecting the machine with "Fault diagnostics tool", they can get "Operational Status information." It also makes the accurate fault diagnostics, change, electric control parts replacement and updating the electric control software possible.

Reason and purpose to get "Operational Status information"

- Can repair by the accurate fault diagnostics.
- Can update the electric control software for the product performance quality improvement.

2. Machine Management System

The owner and Yanmar can get "Operational Status information", by GNSS antenna which mounts on the machine and the communication terminal, and use the information remotely.

3. YANMAR's Collection and Use of the "Operational Status Information"

Yanmar may collect and use "Operational Status information" to improve the owner's machine quality. By the owner's request, Yanmar accepts to offer and delete "Operational Status information" to the owner. In case that the machine cannot identify itself, Yanmar may decline the owner's request. For further details, please contact the dealership of your machine or Yanmar.