

# WSM

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**WORKSHOP MANUAL**  
**TRACTOR**

**F1900 F1900E**

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**Kubota**

## TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA F1900E. It is divided into two parts, "Mechanism" and "Disassembling and Servicing".

### ■ Mechanism

Information on the construction and function are included in this section. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

### ■ Disassembling and Servicing

Under the heading "General" comes general precautions, check and maintenance and special tools. For each section, there are troubleshooting, servicing specification lists, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication.

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## **SAFETY FIRST**

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and decals on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.

 **DANGER** : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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

 **CAUTION** : Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

■ **IMPORTANT** : Indicates that equipment or property damage could result if instructions are not followed.

■ **NOTE** : Gives helpful information.

## **SAFETY SERVICING AND REPAIRING**

- (1) Before working on the machine :
  - Park the machine on a firm and level ground, and set the parking brake.
  - Lower the implement or mower to the ground.
  - Stop the engine, and remove the key.
  - Disconnect the battery's ground cable.
  - Clean the work area and machine.
- (2) Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- (3) Do not wear a necktie, scarf, necklace, loose or bulky clothing when you work near machine tools or moving parts.
- (4) Use tools appropriate to the work. Makeshift tools, parts, and procedures will not make good repairs.
- (5) When servicing is performed together by two or more persons, take care to perform all work safely.
- (6) Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.

- (7) If the engine must be running to do same work, make sure the area is well ventilated. Never run the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.
- (8) Do not touch the rotating or hot parts while the engine is running.
- (9) Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- (10) To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable first and connect it last.
- (11) Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.
- (12) Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- (13) Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Wait for more than ten minutes to cool the radiator, before removing the cap.
- (14) Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.
- (15) Do not start the engine by shorting across starter terminals.
- (16) Unauthorized modifications to the machine may impair the function and / or safety and affect machine life.
- (17) Do not alter or remove any part of machine safety system.
- (18) Keep a first aid kit and fire extinguisher handy at all times.

## SAFETY OPERATION

### [BEFORE OPERATION]

- (1) Read the "OPERATOR'S MANUAL" carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- (2) Do not wear loose, bulky clothing when operating the machine. Do wear safety shoes and eye protection.
- (3) Do not operate the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- (4) Never allow children or inadequately trained persons to operate the machine. Keep everyone, especially children and pets, away from the area of operation.
- (5) Thoroughly inspect the area where the machine is to be used. Remove all sticks, stones, bottles, cans, wires, etc.
- (6) Remove all debris (string, wire or cords) which might wrap around blade shafts.
- (7) Keep all shields and safety devices in place. If a shield, safety device or decal is missing, defective or damaged, repair or replace it before operating.
- (8) Use only implements, attachments and accessories approved by KUBOTA.
- (9) Fuel is very flammable. Handle fuel carefully.
  - Use a properly and approved safety container.
  - Refuel the machine outdoors.
  - Shut off engine and allow it to cool before refueling.
  - Do not refuel the machine while smoking or when near open flame or sparks.
  - Do not overflow fuel while filling fuel tank.
  - Install the fuel tank cap securely, and clean up any spilled fuel before starting the engine.

## [OPERATION]

- (1) Operate the machine only in daylight or in good artificial light.
- (2) Do not run the engine in a closed area without adequate ventilation.
- (3) Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- (4) Never start the engine while standing on ground. Start the engine only from operator's seat.
- (5) Be alert when operating. To prevent loss of control :
  - Watch for holes in the terrain or other hidden hazards.
  - Do not drive close to ditches, creeks, or other hazardous areas.
  - Reduce speed when making sharp turns.
  - Avoid sudden stops and starts.
  - Before backing up, look to the rear to make sure no people or obstacles are behind you or the machine.
- (6) Keep side discharge chute, mulching plate or grass catcher (option) in place.
- (7) Do not discharge clippings toward people or objects.
- (8) Do not put hands or feet near or under mower deck.
- (9) Shut the engine off and wait for all movement to stop before removing grass catcher or unclogging discharge chute.
- (10) Adjust cutting height only when engine is stopped and mower blades have stopped turning.
- (11) Mow up and down slopes, not across to avoid machine tip-over. Stay off hills and slopes too steep for safe operation.
- (12) To reduce fire hazards, keep the engine exhaust area free of grass or leaves.
- (13) Disengage power to the mower blades before crossing gravel drives, walks, or roads.
- (14) If the machine should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- (15) After striking a foreign object, stop the engine immediately and thoroughly inspect the machine for any damage. Repair damage before restarting and operating the machine.
- (16) Before leaving the operator's position :
  - All shift levers are in neutral positions or in disengaged positions.
  - Shut off engine, and remove the key.

## [TRANSPORTING]

- (1) Disengage power to the mower blades, implements and attachments before transporting the machine.
- (2) Do not tow this machine.
- (3) Do not use this machine on public roads. If you must transport it, use a pick-up truck, trailer, or other suitable vehicle and ramp.
- (4) Tie the machine down securely before transporting on public roads.

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