

WSM

WORKSHOP MANUAL
TRACTOR, FRONT LOADER,
BACKHOE

L35 TL720 BT900

Kubota

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA Tractor L35, KUBOTA Front Loader TL720 and KUBOTA Backhoe BT900. It is divided into two parts, "Mechanism" and "Servicing" for each section.

■ Mechanism

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

■ Servicing

Under the heading "General" section comes general precautions, check and maintenance and special tools. Other 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.

The right is reserved to make changes in all information at any time without notice.

February '94

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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.
- (19) Be sure to chock the wheels to prevent accident during servicing the machine.

SAFETY DECALS

- The following safety decals are installed on the machine.
If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

① Part No. TA040-4965-2



⚠ DANGER

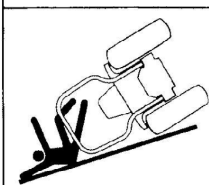
TA040-49652 ©

TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.

- Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.
- Start engine only from operator's seat with transmission and PTO OFF. Never start engine while standing on the ground.

② Part No. TA040-4932-2

⚠ WARNING



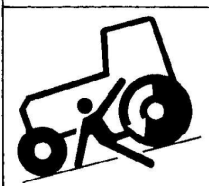
TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:

- Kubota recommends the use of a Roll-Over Protective Structures (ROPS) and seat belt in almost all applications.
- Remove the ROPS only when it substantially interferes with operation or itself presents a safety risk. (Examples include work in orchards and vineyards.) ALWAYS REINSTALL IT BEFORE USING THE TRACTOR IN OTHER APPLICATIONS.
- Never use just the seat belt or just the ROPS. They must be used together. For further details, consult your Operator's Manual or your local dealer.

TA040-49322 ©

③ Part No. TA040-4933-2

⚠ WARNING



BEFORE DISMOUNTING TRACTOR:

- PARK ON LEVEL GROUND WHENEVER POSSIBLE.**
If parking on a gradient, position tractor at right angles to the slope.
- ALWAYS SET PARKING BRAKE.**
Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.
- LOWER ALL IMPLEMENTS TO THE GROUND.**
Failure to comply to this warning may allow the wheels to slip, and could cause injury or death.
- LOCK SHUTTLE SHIFT LEVER IN NEUTRAL POSITION AND STOP THE ENGINE.**

TA040-49332 ©

④ Part No. TA040-4959-2



⚠ WARNING

TA040-49592 ©

TO AVOID PERSONAL INJURY.

- Keep PTO shield in place at all times.
- Before using PTO, set drawbar at 14in. (356mm) from drawbar pin hole to the end of PTO shaft.
- Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer.

⑤ Part No. TA040-4956-1

Diesel fuel
only



No fire



TA040-49561

⑥ Part No. 32751-4921-1

⚠ WARNING

TO AVOID SERIOUS PERSONAL INJURY OR DEATH:

- Keep tractor seat in forward position except when operating BT900 backhoe.
- Using seat in reversed position while operating attachments other than BT900 backhoe may result in entanglement with PTO shaft or 3-point hitch.

32751-49211 ©

⑦ Part No. 35080-6528-2

⚠ CAUTION

Pull the engine stop knob back and hold it until the engine stops in case of emergency.

35080-65282 ©

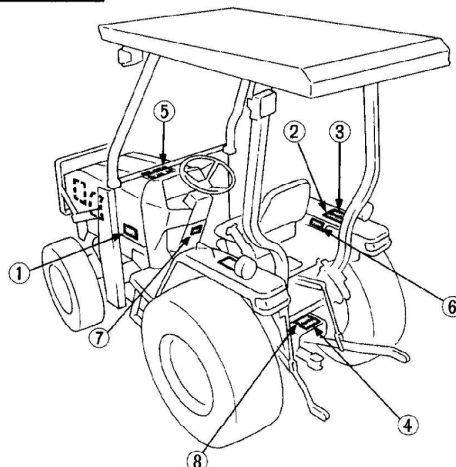
⑧ Part No. TA040-4935-1

⚠ WARNING

TO AVOID PERSONAL INJURY:

- Attach pulled or towed loads to the drawbar only.
- Use the 3-point hitch only with equipment designed for 3-point hitch usage.

TA040-49351 ©



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