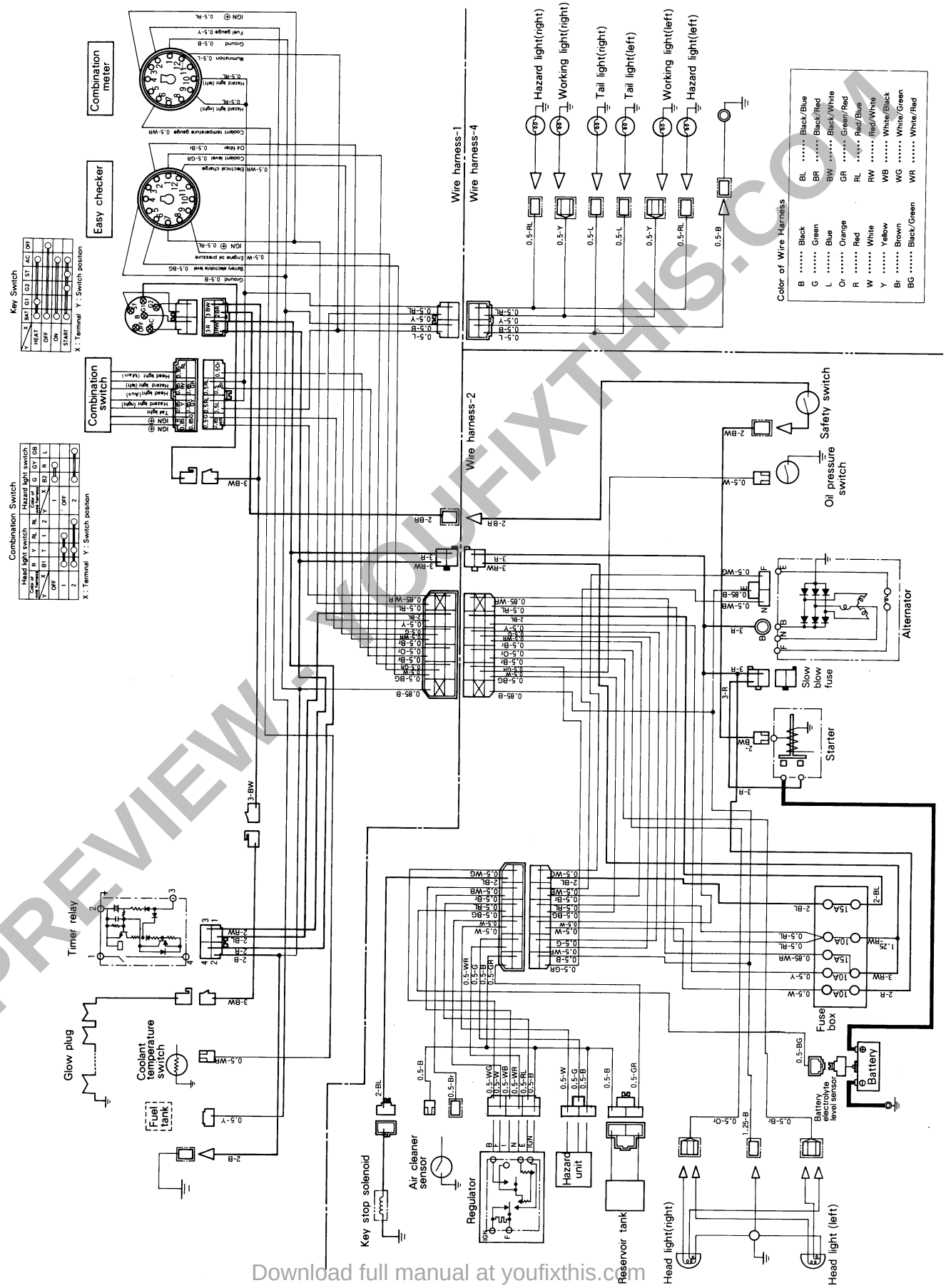
# 17. WIRING DIAGRAM




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# SAFE OPERATION

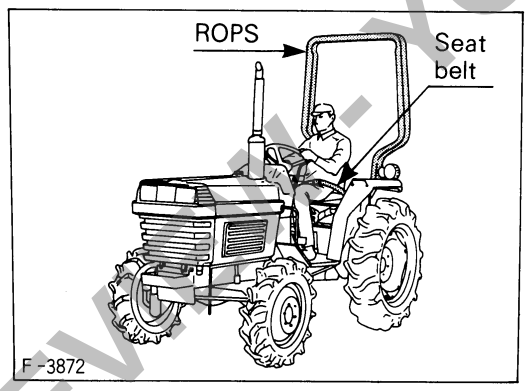
Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor. All operators, no matter how much experience they may have had, should read this and other related manuals before operating tractor or any implement attached to it. It is the owner's legal obligation to instruct all operators in safe operation.

## 1. BEFORE OPERATING THE TRACTOR

(1) Know your equipment and its limitations. Read this entire manual before attempting to start and operate the tractor.

(2) Pay special attention to the warning and caution labels on the tractor itself.

(3) Kubota recommends the use of a Roll Over Protective Structures (ROPS) and seat belt in almost all applications. This combination will reduce the risk of serious injury or death should the tractor be upset.
If the ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting any portion may weaken the structure.
A damaged ROPS structure must be replaced, not repaired or revised. If any structural member of the ROPS is damaged, replace the entire structure at your local Kubota dealer.




(4) Always use the seat belt if the tractor has a ROPS. Do not use it if there is no ROPS. Check the seat belt daily and replace if frayed or damaged.

(5) Do not operate tractor or any implement attached to it while under the influence of alcohol, medication, or other substances or while fatigued.

(6) Carefully check the vicinity before operating tractor or any implement attached to it. Check for overhead clearance which may interfere with a ROPS. Do not allow any bystanders around or near tractor during operation.

(7) Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.

(8) Never wear loose, torn, or bulky clothing around tractor.It may catch on moving parts or controls, leading to the risk of accident. Use additional safety items...hard hat, safety boots or shoes, eye and hearing protection, gloves, etc. ...as appropriate or required.

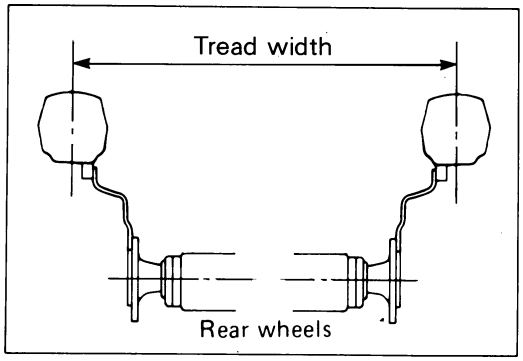
(9) Do not allow passengers or non-qualified operators on the tractor at any time. The operator must remain in the tractor seat throughout operation.

(10) Check brakes, clutch, and other mechanical parts for faulty adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see MAINTENANCE AND ADJUSTMENTS.)

(11) Keep your tractor clean. Dirt, grease, and trash accumulations contribute to fires and lead to personal injury.

(12) Use only implements meeting the specifications listed under IMPLEMENT LIMITATIONS in this manual. Use proper weights to front or rear of tractor to reduce the risk of upsets. Follow the safe operating procedures specified in the manuals included with the equipment.

(13) The narrower the tread, the greater, the risk of a tractor upset. For maximum stability, adjust the wheels to the largest practical tread width.(See page 29, 30).




## 2. OPERATING THE TRACTOR

(1) Never start engine or operate levers from anywhere other than the seat.

(2) Before, starting the engine, make sure that all levers (including auxiliary control levers) are in their neutral positions, that the parking brake is engaged, and that both the clutch and the Power Take-Off (PTO) are disengaged.
Fasten the seat belt if the tractor has a ROPS.

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# 2. SPECIFICATIONS

## 2.1 SPECIFICATION TABLE

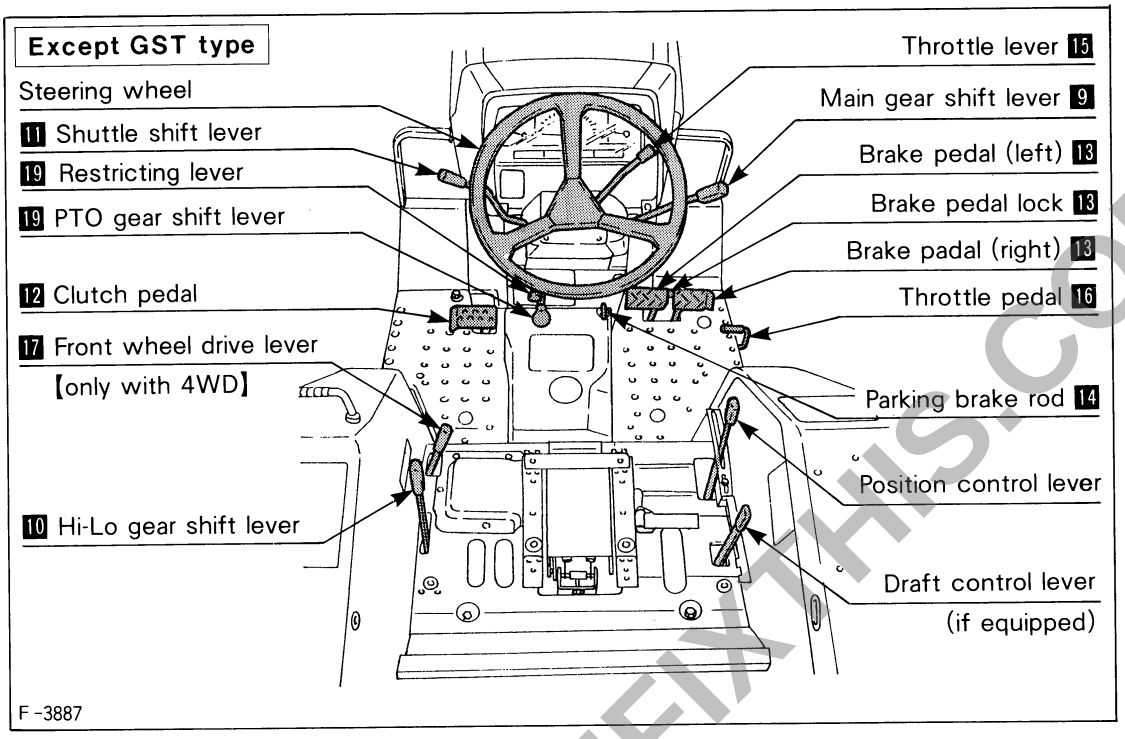
| Model | | | L2250 (2WD) | L2250 (4WD) | L2550 (2WD) | L2550 (4WD) | L2850 (2WD) | L2850 (4WD) | L3250 (2WD) | L3250 (4WD) |
|---|---|---|---|---|---|---|---|---|---|---|
| Engine gross power | | | 19.8kW (26.5HP)* | | 22.0kW (29.5HP)* | | 25.4kW (34HP)* | | 29.8kW (40HP)* | |
| PTO power | | | 15.7kW (21HP)* | | 17.5kW (23.5HP)* | | 20.1kW (27HP)* | | 23.9kW (32HP)* | |
| Engine | Model | | KUBOTA D 1302-DI-A | | KUBOTA D 1402-DI-A | | KUBOTA V 1702-DI-A | | KUBOTA V 1902-DI-A | |
| | Type | | Direct Injection, Vertical, Water-Cooled 4 cycle diesel | | | | | | | |
| | No. of cylinders | | 3 | | | | 4 | | | |
| | Bore and stroke | | 82 × 82 mm (3.2 × 3.2 in.) | | 85 × 82 mm (3.3 × 3.2 in.) | | 82 × 82 mm (3.2 × 3.2 in.) | | 85 × 82 mm (3.3 × 3.2 in.) | |
| | Total displacement | | 1299 cm³ (79.3 cu. in.) | | 1395 cm³ (85.1 cu. in.) | | 1732 cm³ (105.7 cu. in.) | | 1861 cm³ (113.6 cu. in.) | |
| | Rated revolution | | 43.3 r/s (2600 rpm) | | | | | | | |
| | Fuel | | Diesel fuel No.1 [below −10°C (14°F)]<br>Diesel fuel No.2 [above −10°C (14°F)] | | | | | | | |
| | Starter | | Electric starter 12V, 1.2kW (1.6HP) | | | | Electric starter 12V, 1.4kW (1.9HP) | | | |
| | Lubrication | | Forced lubrication by trochoidal pump | | | | | | | |
| | Cooling | | Water with pressurized radiator | | | | | | | |
| | Battery | | 12V 65 Ah eq. | | | | 12V 70 Ah eq. | | | |
| Capacities | Fuel tank | | 29 ℓ (7.7 U.S. gals.) | | | | | | | |
| | Engine crankcase | | 5.7 ℓ (6.0 U.S. qts.) | | | | 8.5 ℓ (8.9 U.S. qts.) | | | |
| | Engine coolant | | 4.6 ℓ (4.9 U.S. qts.) | | | | 5.6 ℓ (5.9 U.S. qts.) | | | |
| | Transmission case | | 28.5 ℓ (7.5 U.S. gals.) | | | | | | | |
| | Steering gear case | | 0.1 ℓ (0.11 U.S. qt.) | | | | | | | |
| | Steering gear box | | 0.2 ℓ (0.21 U.S. qt.) | | | | | | | |
| | Front axle case | | – | 6 ℓ (6.3 U.S. qts.) | – | 6.5 ℓ (6.8 U.S. qts.) | – | 6.5 ℓ (6.8 U.S. qts.) | – | 6.5 ℓ (6.8 U.S. qts.) |
| Tires | | Front | 4.00–15 | 6–14 | 5.00–15 | 7–16 | 5.00–15 | 7–16 | 6.00–16 | 8–16 |
| | | Rear | 9.5–24 | 9.5–24 | 11.2–24 | 11.2–24 | 12.4–24 | 12.4–24 | 13.6–26 | 13.6–26 |
| Dimensions | Overall length ($^{without}_{3P}$) mm (in.) | | 2750 (108.3) | | 2770 (109.1) | | 2900 (114.2) | | 2950 (116.1) | |
| | Overall width mm (in.) | | 1255 ( 49.4) | | 1305 ( 51.4) | | 1370 ( 53.9) | | 1480 ( 58.3) | |
| | Overall height mm (in.) | | 2030 ( 79.9) | | 2030 ( 79.9) | | 2030 ( 79.9) | | 2050 ( 80.7) | |
| | Wheel base mm (in.) | | 1640 (64.6) | | | | 1735 (68.3) | | | |
| | Min. ground clearance mm (in.) | | 345 (13.6) | 305 (12.0) | 370 (14.6) | 345 (13.6) | 355 (14.0) | 345 (13.6) | 365 (14.4) | 360 (14.2) |
| | Treads | Front mm (in.) | 1010 (39.8) | 1010 (39.8) | 960 (37.8)<br>1060 (41.7)<br>1160 (45.7)<br>1260 (49.6) | 1120 (44.1) | 1150 (45.3)<br>1250 (49.2)<br>1350 (53.1)<br>1450 (57.1) | 1120 (44.1) | 1150 (45.3)<br>1250 (49.2)<br>1350 (53.1)<br>1450 (57.1) | 1170 (46.1) |
| | | Rear mm (in.) | 1015 (40.0)<br>1135 (44.7) | | 1030 (40.6), 1125 (44.3),<br>1220 (48.0), 1305 (51.4),<br>1400 (55.1) | | 1050 (41.3), 1150 (45.3),<br>1240 (48.8), 1335 (52.6),<br>1420 (55.9), 1515 (59.6) | | 1155 (45.5), 1225 (48.2),<br>1325 (52.2), 1350 (53.1),<br>1450 (57.1) | |
| Weight kg (lbs.) | | | 985 (2170) | 1080 (2380) | 1020 (2250) | 1120 (2470) | 1125 (2480) | 1230 (2710) | 1150 (2530) | 1245 (2740) |
| Rear PTO | | | SAE 1-3/8 6-splines (with overrunning clutch on single clutch tractor) | | | | | | | |
| | Revolution | with single clutch | 2 speeds 9r/s (540rpm)/engine 40.5r/s (2430rpm), 16.7r/s (1000rpm)/engine 40.6r/s (2438rpm) | | | | | | – | |
| | | with dual clutch | 2 speeds 9r/s (540rpm)/engine 38.3r/s (2298rpm), 16.7r/s (1000rpm)/engine 40.6r/s (2438rpm) | | | | | | 1 speed 9r/s (540rpm) engine 38.3r/s (2300rpm) | |
| MID-PTO (if equipped) | | | USA No.5 (KUBOTA 10 tooth) Involute spline | | | | | | – | |
| | Revolution | with single clutch | 2 speeds 18r/s (1080rpm)/engine 40.5r/s (2430rpm), 33.3r/s (2000rpm)/engine 40.6r/s (2438rpm) | | | | | | – | |
| | | with dual clutch | 2 speeds 18r/s (1080rpm)/engine 38.3r/s (2298rpm), 33.3r/s (2000rpm)/engine 40.6r/s (2438rpm) | | | | | | – | |
| Clutch | | | Dry single plate or two plate (live PTO: if equipped) | | | | | | Dry two plate (live PTO) | |
| Steering | | | Recirculating ball type manual steering or integral type power steering (if equipped) | | | | | | | |
| Transmission | | | Mechanical shuttle, 8 forward and 8 reverse | | | | | | | |
| Min. turning radius m (feet) | | | 2.3 (7.5) | 2.2 (7.2) | 2.3 (7.5) | 2.3 (7.5) | 2.4 (7.9) | 2.4 (7.9) | 2.4 (7.9) | 2.5 (8.2) |
| Brake | | | Wet disk type | | | | | | | |
| Differential | | | Bevel gear | | | | | | | |

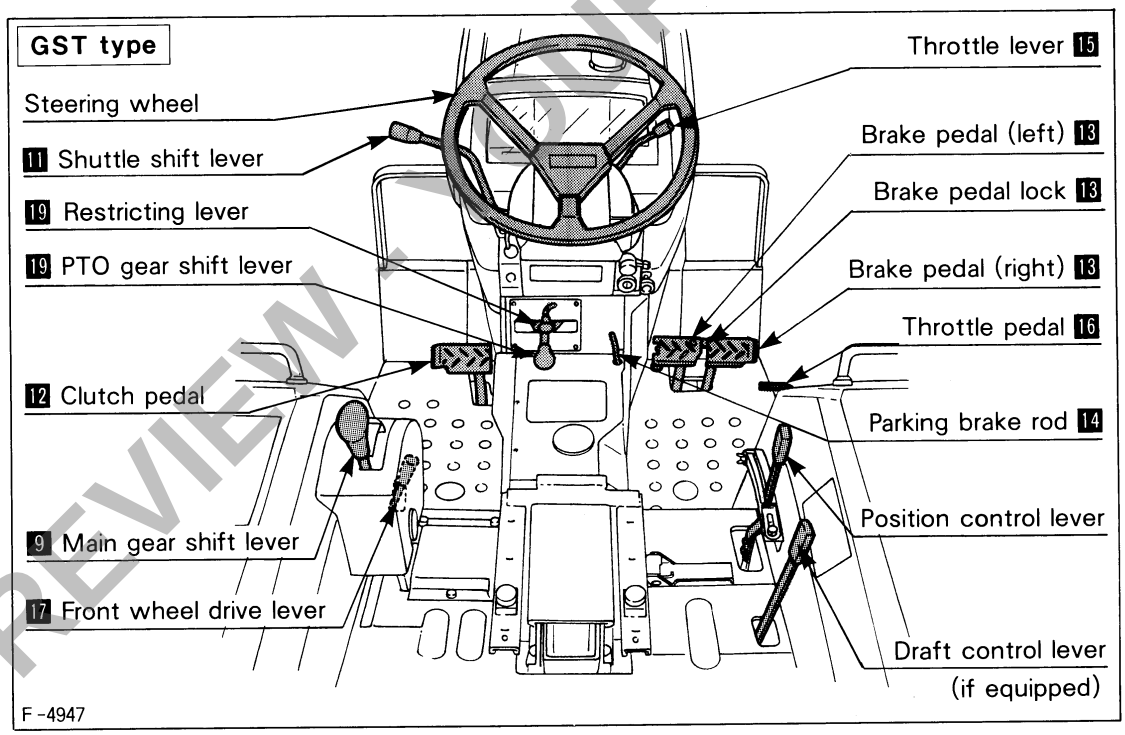
**Note:** *Manufacturer's estimate

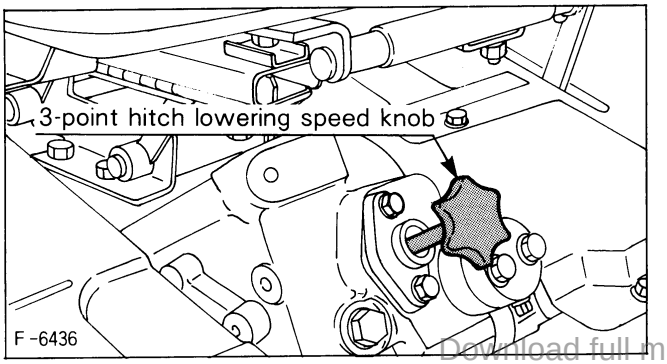
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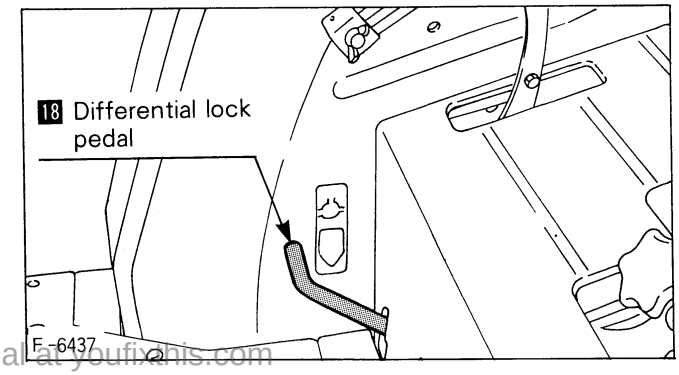
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# 5.2 CONTROLS




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# 8.1 WHEEL ADJUSTMENT

## ■ Front Wheels

### ◆ 2WD (Two Wheel Drive)

Front tread width can be adjusted as shown with the standard equipped tires.

**CAUTION**

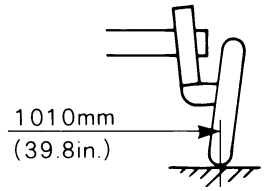
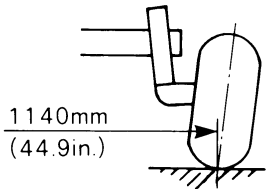
**To avoid personal injury:**

- **When working on slopes or when working with trailer, set the wheel tread as wide as practical for the job for maximum stability.**

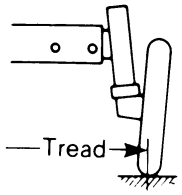
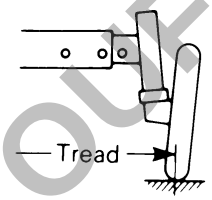
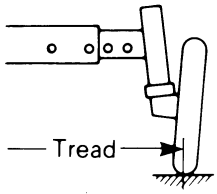
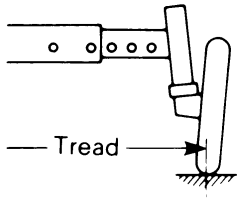
**To change the tread:**

(1) Lift the front of the tractor with a jack.
(2) Remove the front axle mounting bolts and the tie-rod mounting bolts.
(3) Move the front axles (right and left) to the desired position, and tighten them with bolts.
(4) Adjust the toe-in: [2 to 8 mm (0.1 to 0.3 in.)] (See page 54)

**【L2250】 Front axle is not adjustable.**

| 4.00–15 Farm | 23 × 8.50–12 Turf |
|---|---|
|   F-3910 |   F-3911 |

**【L2550·L2850·L3250】**

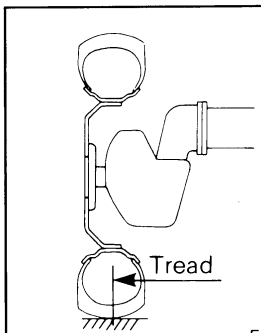
| Models |   |   |   |   |
|---|---|---|---|---|
| **L2550** 5.00–15 Farm | 960 mm (37.8 in.) | 1060 mm (41.7 in.) | 1160 mm (45.7 in.) | 1260 mm (49.6 in.) |
| **L2550** 23×8.50–12 Turf | 1080 mm (42.5 in.) | 1180 mm (46.5 in.) | 1280 mm (50.4 in.) | 1380 mm (54.3 in.) |
| **L2850** 5.00–15 Farm | 1150 mm (45.3 in.) | 1250 mm (49.2 in.) | 1350 mm (53.1 in.) | 1450 mm (57.1 in.) |
| **L2850·L3250** 25×8.50–14 Turf | 1270 mm (50.0 in.) | 1370 mm (53.9 in.) | 1470 mm (57.9 in.) | 1570 mm (61.8 in.) |
| **L3250** 6.00–16 Farm | 1150 mm (45.3 in.) | 1250 mm (49.2 in.) | 1350 mm (53.1 in.) | 1450 mm (57.1 in.) |

**IMPORTANT:**

- The front tread width for the front loader application on 2WD models should not be greater than 1060mm (41.7 in.) for L2550, 1150mm (45.3 in.) for L2850,L3250.

### ◆ 4WD (Four Wheel Drive)

Front axle is not adjustable.



F-3912

| Models | L2250 | | L2550 | |
|---|---|---|---|---|
| Tires | 6–14 Farm | 24 × 8.50–14 Turf | 7–16 Farm | 25 × 8.50–14 Turf |
| Tread | 1010 mm (39.8 in.) | 1060 mm (41.7 in.) | 1120 mm (44.1 in.) | 1130 mm (44.5 in.) |
| **Models** | **L2850** | | **L3250** | |
| Tires | 7–16 Farm | 212/80–D15, 27X8.50–15 Turf | 8–16 Farm | 212/80–D15, 27X8.50–15 Turf |
| Tread | 1120 mm (44.1 in.) | 1175 mm (46.3 in.) | 1170 mm (46.1 in.) | 1175 mm (46.3 in.) |

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# 9. OPERATING INSTRUCTIONS

### Pre-Start Checks

Prior to starting the engine, make pre-start checks according to the Maintenance Check List on page 39.

**CAUTION**

**To avoid personal injury:**

- **Read "Safe Operation"in the front of this manual.**
- **Read the warning and caution labels located on the tractor.**

## 9.1 OPERATING THE ENGINE

**CAUTION**

**To avoid personal injury:**

- **To avoid the danger of exhaust fume poisoning,do not operate the engine in a closed building without proper ventilation.**
- **Make it a rule to set main gear shift lever, Hi-Lo gear shift lever,shuttle shift lever and PTO gear shift lever to the "neutral" positions before starting the engine.**

### ■ Starting

(1) Sit on the operator's seat. If the tractor is equipped with a ROPS, fasten the seat belt.
(2) Push in the engine stop knob.
(3) Place Main gear shift lever, Hi-Lo gear shift lever, shuttle shift lever and PTO gear shift lever in the "neutral" position.
(4) Place hydraulic control levers in lowest positions.
(5) Set the throttle lever approximately 1/4 of the way backward (approximately 1500 rpm position).
(6) Insert the key into the key switch and turn it on.
(7) Fully depress the clutch pedal. (The safety switch turns on.)
(8) Check to see that all the lights on the Easy Checker are on.
(9) Turn the key to start position and release when the engine starts.
(10) Check to see that all the lights on the Easy Checker are off.

**IMPORTANT:**

- When starting the engine after long storage (of more than three months), first pull the engine stop knob and then activate the starter for about ten seconds to allow oil to reach every engine part.
- Do not turn the key switch to start position while the engine is running.
- When the temperature is below 0℃ (32°F), place the main gear shift lever in the neutral position and keep the engine at medium speed to warm up the lubricant of engine and transmission at least 10 minutes. If the tractor is operated before the lubricant of engine and transmission is warm enough, the tractor life will be shortened.
- Do not operate the tractor under full load condition until it is sufficiently warmed up.
- Do not use starting fluid or ether.
- Do not leave your tractor in the rain. If it cannot be avoided, cover the muffler pipe to prevent rain drops from entering.
- When cold, blue or white exhaust fumes may come out occasionally (about a minute) from muffler, which is not abnormal. Colored fumes continued even longer can be extinguished by applying load to the engine. It should be avoided to continue engine slow idle for a long time or repeat engine starting more than necessary.

### ■ Starting Engine in the Low Temperature Range

If the ambient temperature is below −5℃ (23°F) and the engine is very cold, start it in the following manner:
Take steps (1) through (8) above; in step (5), pull the hand throttle backward all the way.
(9) Turn the key to "Preheat" and keep it there for about 30 seconds.
(10) Turn the key switch to the start position and the engine should start.
(If the engine fails to start after 10 seconds, turn off the key switch for 30 seconds. Then repeat steps (8) and (9). To protect the battery and the starter, make sure that the starter is not continuously turned for more than 30 seconds.)

### ■ Stopping the Engine

(1) After slowing the engine, turn the key switch to "OFF" and pull the engine stop knob until the engine comes to complete stop.
(2) Remove the key.

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## ■ Warm-Up

For five minutes after engine start-up, allow engine to warm up without applying any load, this is to allow oil to reach every engine part. If load should be applied to the engine without this warm-up period, trouble such as seizure or breakage might develop.

**CAUTION**
**To avoid personal injury:**
- **Be sure to apply the parking brake and set all levers in neutral during engine warm-up.**

## ■ Warm-Up and Transmission Oil in the Low Temperature Range

A tractor with glide shift transmission utilizes a hydraulic clutch. Hydraulic oil serves as transmission oil, and power steering. In cold weather, the oil may be cold with increased viscosity. This can cause delayed oil circulation or abnormally low hydraulic pressure for some time after engine start-up. This in turn can result in trouble in the hydraulic system or a damaged power steering or a damaged hydraulic clutch. To prevent the above, observe the following instructions:
Warm up the engine according to the table below:

| Ambient temperature | Warm-up time requirement |
|---|---|
| Above 0℃ (32°F) | At least 10 minutes |
| 0 to –10℃ (32 to 14°F) | 10 to 20 minutes |
| –10 to –20℃ (14 to –4°F) | 20 to 30 minutes |
| Below –20℃ (–4°F) | More than 30 minutes |

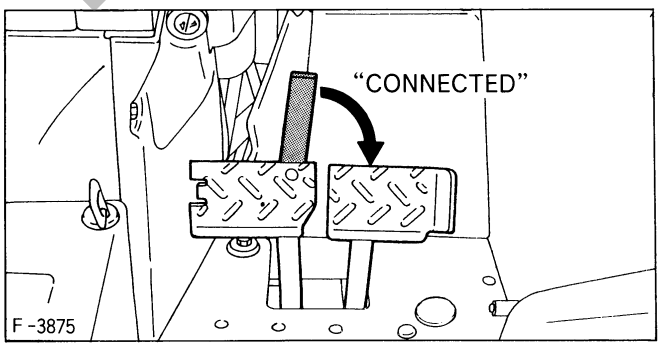
## ■ Block Heater (if equipped)

A block heater is available as an option from your dealer. It will assist you in starting your tractor when the ambient temperature is below 0℃ (32°F).

# 9.2 OPERATING THE TRACTOR

## ■ Starting

(1) If traveling on the road, check to see that the right and left brake pedals are properly connected.




(2) Raise the implement.
(3) Depress the clutch pedal, and shift the main, and Hi-Lo gear shift levers to the desired speed and shift the shuttle lever to the desired direction of travel.
(4) Accelerate the engine to a proper level to prevent engine stall.
(5) Unlock the parking brake and slowly release the clutch.

**IMPORTANT:**
- Be sure to release the parking brake before moving the tractor.
- Change traveling speed only after depressing the clutch pedal all the way. (Except GST type)
- Avoid slipping the clutch to prolong the clutch service life, paying attention to the following points:
  - Do not slip the clutch when changing speed.
  - Select proper gear and engine speeds depending on the type of job.
  - Do not operate the tractor with your foot resting on the clutch pedal.
- For road travel,start the tractor in a lower gear, and then change to a higher gear.It will prolong the clutch service life.(GST type)

**CAUTION**
**To avoid personal injury:**
- **Sudden release of the clutch may cause the tractor to lunge in an unexpected manner.**
- **To help assure straight line stops when driving at transport speeds, lock the brake pedals together. Uneven braking at road speeds could cause the tractor to roll-over.**
- **Do not allow any person other than the driver to ride on the tractor.**
- **Do not drive the tractor close to the edges of ditches or banks which may collapse under the weight of the tractor. Especially when the ground is loose or wet.**
- **Always back up when going up a steep slope. Driving forward could cause the tractor to tip over backward. Stay off hills and slopes too steep for safe operation.**
- **If descending a slope, never disengage the clutch or shift levers to neutral. Doing so could cause the tractor to speed up out of control.**
- **Roll-Over Protective Structure (ROPS) with a seat belt is recommended by Kubota in almost all applications. Refer to the Safety Section.**
- **Do not apply the differential lock while traveling at road speeds. Doing so could cause the tractor to swerve out of control.**

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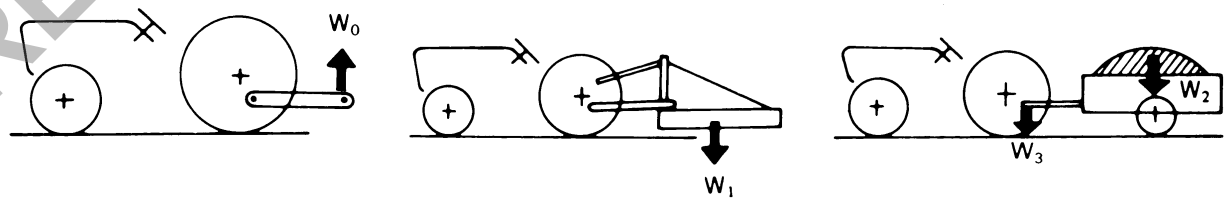
# 3. SPECIFICATIONS OF IMPLEMENT LIMITATIONS

The Kubota Tractor has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which exceed the maximum specifications listed below, or which are otherwise unfit for use with the Kubota Tractor may result in malfunctions or failures of the tractor, damage to other property and injury to the operator or others. [Any malfunctions or failures of the tractor resulting from use with improper implements are not covered by the warranty.]

| | Tread (max. width) with farm tires | | | Lift capacity Lower link end $W_0$ |
|---|---|---|---|---|
| | Front | | Rear | |
| | 2WD | 4WD | | |
| L2250 | 1010 mm (40 in.) | 1010 mm (40 in.) | 1135 mm (45 in.) | 850 kg (1875 lbs.) |
| L2550 | 1260 mm (50 in.) | 1120 mm (44 in.) | 1400 mm (55 in.) | 1100 kg (2425 lbs.) |
| L2850 | 1450 mm (57 in.) | 1120 mm (44 in.) | 1515 mm (60 in.) | 1100 kg (2425 lbs.) |
| L3250 | 1450 mm (57 in.) | 1170 mm (46 in.) | 1450 mm (57 in.) | 1100 kg (2425 lbs.) |

| | Actual figures | | | |
|---|---|---|---|---|
| | Trailer loading weight $W_2$ Max. capacity | | Max. Drawbar Load $W_3$ 2WD, 4WD | Lift capacity 24 inch behind lower link end $W_1$ |
| | 2WD | 4WD | | |
| L2250 | 1000 kg (2200 lbs.) | 1000 kg (2200 lbs.) | 330 kg (730 lbs.) | 650 kg (1430 lbs.) |
| L2550 | 1500 kg (3300 lbs.) | 1500 kg (3300 lbs.) | 500 kg (1100 lbs.) | 820 kg (1810 lbs.) |
| L2850 | 2000 kg (4400 lbs.) | 2000 kg (4400 lbs.) | 650 kg (1430 lbs.) | 850 kg (1875 lbs.) |
| L3250 | 2500 kg (5500 lbs.) | 2500 kg (5500 lbs.) | 650 kg (1430 lbs.) | 850 kg (1875 lbs.) |

Lower link end lift capacity ..... $W_0$
Implement weight ..... The implement weight which can be put on the links : $W_1$
Trailer loading weight ..... The max. loading weight for trailer (without trailer's weight) : $W_2$




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