THANK YOU FOR PURCHASING A BRANSON 25 SERIES TRACTOR.

BEFORE USE, READ AND UNDERSTAND THIS MANUAL COMPLETE.

1. After reading this manual, keep it close to the tractor for immediate reference.

2. Any one operating this tractor should review this manual.

3. In case this manual is lost or damaged, please contact your nearest authorized dealer for a copy.

4. Some parts of this product may have been changed for the improvement of quality or for safety reason.

5. In this case, the photographs or drawings of such parts in this booklet may not be the same as the actual parts installed on this product.

6. If you find anything in this manual unclear or in need of further explanation, please contact your authorized dealer for inquiry.
TABLE OF CONTENTS

● GENERAL PRECAUTIONS ..........................................................  1
● ABOUT WARRANTY .................................................................  2
● OVERVIEW OF THE TRACTOR ..............................................  3
● FUNCTIONS ...........................................................................  4
● OPERATION & WORK .............................................................  5
● MAINTENANCE AFTER WORK ................................................  6
● PERIODIC MAINTENANCE AND ADJUSTMENT .....................  7
● TROUBLE SHOOTING ............................................................  8
● SPECIFICATIONS ....................................................................  9
● INDEX .................................................................................. 10
# TABLE OF CONTENTS

**GENERAL PRECAUTIONS** ............................... 1-1

**TO ENSURE SAFE OPERATION** ............... 1-2

Before Using the Machine ........................... 1-2
While Working ........................................ 1-11
After Using the Machine ......................... 1-13
Precaution for Prolonged Storage ............ 1-15
Precautions in Inclined Area .................. 1-17
Maintenance Before Operating ................ 1-18
Others ..................................................... 1-19

Overview of Safety Decal ......................... 1-30

**ABOUT WARRANTY** .................................. 2-1

**WARRANTY** ........................................... 2-2

**TROUBLE SHOOTING** .............................. 2-2

Overview of the Tractor ......................... 3-1

**EXTERIOR VIEW** ..................................... 3-2

**FUNCTION** ............................................. 4-1

**SWITCHES AND LEVERS** .......................... 4-3

Main Key Switch ...................................... 4-3
Accelerator Lever .................................. 4-4
F/R Shuttle Lever .................................. 4-4
Director Lamp S/W .................................. 4-5
Head Lamp & Horn S/W ............................. 4-5
Steering Wheel Tilt Lever ...................... 4-5
PTO Shift Switch ..................................... 4-6
Cruise Control Switch ............................. 4-6
Emergency Lamp Switch ......................... 4-7

**INSTRUMENT PANEL** ............................... 4-8

Engine RPM Indicator .............................. 4-9
Engine Hour Meter .................................. 4-9
PTO Position .......................................... 4-9
PTO Lamp ............................................. 4-10
Pre-Heat Lamp ....................................... 4-10
Battery Charging Lamp ............................ 4-11
Engine Oil Pressure Lamp ....................... 4-11
Fuel Gauge .......................................... 4-11
Water Temp Gauge .................................. 4-12
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAD LAMP (HIGH BEAM)</td>
<td>4-12</td>
</tr>
<tr>
<td>DPF LAMP</td>
<td>4-12</td>
</tr>
<tr>
<td><strong>PEDALS</strong></td>
<td>4-13</td>
</tr>
<tr>
<td>CLUTCH PEDAL</td>
<td>4-13</td>
</tr>
<tr>
<td>BRAKE PEDALS AND COUPLER</td>
<td>4-13</td>
</tr>
<tr>
<td>ACCELERATOR PEDAL</td>
<td>4-14</td>
</tr>
<tr>
<td>F-R HST PEDAL (HST)</td>
<td>4-14</td>
</tr>
<tr>
<td><strong>LEVER OPERATION (R)</strong></td>
<td>4-15</td>
</tr>
<tr>
<td>MID REMOTE VALVE JOYSTICK</td>
<td>4-15</td>
</tr>
<tr>
<td>MAIN GEAR SHIFT LEVER</td>
<td>4-15</td>
</tr>
<tr>
<td>3PT POSITION CONTROL LEVER</td>
<td>4-16</td>
</tr>
<tr>
<td>RANGE SHIFT LEVER</td>
<td>4-16</td>
</tr>
<tr>
<td>PARK BRAKE LEVER</td>
<td>4-17</td>
</tr>
<tr>
<td>REAR REMOTE CONTROL LEVER (I,II)</td>
<td>4-17</td>
</tr>
<tr>
<td><strong>LEVER OPERATION (L)</strong></td>
<td>4-17</td>
</tr>
<tr>
<td>STOP/SLOW RETURN VALVE</td>
<td>4-18</td>
</tr>
<tr>
<td>MFWD LEVER</td>
<td>4-18</td>
</tr>
<tr>
<td>PTO LEVER</td>
<td>4-18</td>
</tr>
<tr>
<td>DIFFERENTIAL LOCK PEDAL</td>
<td>4-19</td>
</tr>
<tr>
<td><strong>PARTS FOR OTHER</strong></td>
<td>4-19</td>
</tr>
<tr>
<td>WORK LAMP SWITCH</td>
<td>4-19</td>
</tr>
<tr>
<td>POWER OUT 12V</td>
<td>4-19</td>
</tr>
<tr>
<td>WIPER SWITCH</td>
<td>4-20</td>
</tr>
<tr>
<td>CLIMATE CONTROL</td>
<td>4-21</td>
</tr>
<tr>
<td>SEAT BELT</td>
<td>4-21</td>
</tr>
<tr>
<td>SEAT ADJUSTMENT</td>
<td>4-22</td>
</tr>
<tr>
<td>TAIL LAMP</td>
<td>4-23</td>
</tr>
<tr>
<td>BRAKE LAMP</td>
<td>4-23</td>
</tr>
<tr>
<td>REVERSE DRIVE LAMP</td>
<td>4-23</td>
</tr>
<tr>
<td>WORK LAMP</td>
<td>4-24</td>
</tr>
<tr>
<td><strong>OPERATION &amp; WORK</strong></td>
<td>5-1</td>
</tr>
<tr>
<td>CHECKING BEFORE OPERATION</td>
<td>5-2</td>
</tr>
<tr>
<td>STARTING / STOPPING THE ENGINE</td>
<td>5-9</td>
</tr>
<tr>
<td>TO START THE ENGINE</td>
<td>5-10</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO STOP THE ENGINE</td>
<td>5-12</td>
</tr>
<tr>
<td>TO RAISE OR LOWER THE IMPLEMENT</td>
<td>5-13</td>
</tr>
<tr>
<td>ADJUSTING THE LOWERING SPEED OF THE IMPLEMENT</td>
<td>5-13</td>
</tr>
<tr>
<td>TOWING INSTRUCTIONS</td>
<td>5-22</td>
</tr>
<tr>
<td>PTO SPECIFICATIONS &amp; PRECAUTIONS</td>
<td>5-22</td>
</tr>
<tr>
<td>LOADER OPERATION</td>
<td>5-23</td>
</tr>
<tr>
<td>CARRYING THE LOAD</td>
<td>5-24</td>
</tr>
<tr>
<td>HANDLING LARGE HEAVY OBJECTS</td>
<td>5-25</td>
</tr>
<tr>
<td>ROPS FOLDING METHOD</td>
<td>5-26</td>
</tr>
<tr>
<td>HOW TO FOLD DOWN THE ROPS</td>
<td>5-26</td>
</tr>
<tr>
<td>HOW TO FOLD DOWN THE ROPS</td>
<td>5-27</td>
</tr>
<tr>
<td>MAINTENANCE AFTER WORK</td>
<td>6-1</td>
</tr>
<tr>
<td>MAINTENANCE AFTER WORK</td>
<td>6-2</td>
</tr>
<tr>
<td>MAINTENANCE FOR PROLONGED STORAGE</td>
<td>6-2</td>
</tr>
<tr>
<td>PERIODIC MAINTENANCE AND ADJUSTMENT</td>
<td>7-1</td>
</tr>
<tr>
<td>PERIODIC MAINTENANCE SCHEDULE</td>
<td>7-2</td>
</tr>
<tr>
<td>OIL, GREASE AND ANTI-FREEZE CHART</td>
<td>7-4</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

**FUEL, OIL AND COOLANT CHART** .................. 7-5

**CHECKING AND CHANGING OF OIL** ............ 7-6

- ENGINE OIL .................................................. 7-6
- TRANSMISSION / HYD OIL FLUID ..................... 7-7
- FRONT AXLE FLUID ........................................... 7-8

**FILTERS / COOLANT REPLACEMENT** ............ 7-9

- ENGINE OIL FILTER ........................................... 7-9
- TRANSMISSION OIL FILTER .............................. 7-9
- FUEL FILTER ................................................ 7-10
- DRAINING AIR IN FUEL LINE ........................... 7-10
- COOLANT .................................................... 7-11

**OTHERS** .................................................... 7-12

- RADIATOR SCREEN AND AIR CLEANER .............. 7-12
- BATTERY ...................................................... 7-13
- ADJUSTING PARKING BRAKE ............................. 7-14
- FUEL PIPES AND HOSES .................................. 7-14
- ELECTRICAL CABLES ....................................... 7-15
- GREASING .................................................... 7-15

**CLUTCH** ..................................................... 7-16

**HST PEDAL** .................................................. 7-16

**STEERING WHEEL** ....................................... 7-17

**BRAKE** ...................................................... 7-17

**FAN BELT** ................................................... 7-18

**AIR COMPRESSOR BELT** ............................... 7-19

**TOE-IN** ...................................................... 7-20

**FUSE & FUSIBLE LINKS** ................................. 7-20

**COLOR OF EXHAUST GAS** .............................. 7-21

**TIRES PRESSURE** ........................................ 7-21

**TROUBLESHOOTING** .................................... 8-1

**ENGINE** ..................................................... 8-2

**CLUTCH AND BRAKE** .................................... 8-2

**HYDRAULIC SYSTEM** ..................................... 8-4

**ELECTRICAL SYSTEM** ..................................... 8-5

**SPECSICATIONS** .......................................... 9-1
TABLE OF CONTENTS

SPECIFICATIONS ............................................. 9-2
INDEX .................................................................... 10-1
INDEX .................................................................... 10-2
SAFETY AND VEHICLE DAMAGE WARNING

The instructions given with the following marks are very important for your safety.

<table>
<thead>
<tr>
<th>DANGER</th>
<th>Failure to observe the instruction given with this mark may result in death or injury.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING</td>
<td>Failure to observe the instruction given with this mark may expose you to the risk of death or injury.</td>
</tr>
</tbody>
</table>
| CAUTION         | Failure to observe the instruction given with this mark may expose you to injury.  
|                 | • The section, “To Ensure Safe Operation,” on the following pages details safety points to be observed to ensure safe operation of your tractor.  
|                 | • Please make sure you read it carefully before operating the tractor. |
| NOTE            | This instruction is to give additional description to operator so that he/she can operate the machine more effectively. |
| IMPORTANT       | Read this Manual for correct and safe use of the product. Failure to use the product properly may result in an accident. Keep this Manual close to the tractor after you have read it. |
This manual includes symbol marks of controller to ease tractor’s maneuverability and maintenance. These meanings are as below, so carefully read it for a proper function.

- **Direction Lamp (LH)**
- **Direction Lamp (RH)**
- **Low Beam**
- **High Beam**
- **DPF**
- **PTO**
- **Parking Brake**
- **Preheat**
- **Engine Oil Pressure Lamp**
- **Battery Charging Lamp**
- **4WD**
"USE AND DISPOSAL" POLICY CONCERNED WITH ENVIRONMENT PRESERVATION

We try our best to preserve the environment, always concerned about our environmental impact at each step of planning, development, production, distribution, use and disposal of products, and for our overall operations through “environmentally friendly” management system. We comply with international environmental regulations, environmental regulations designated by country and local authorities and other requirements with which we are in agreement, and we work towards the prevention of environmental pollution and the conservation of resources. We provide environmental education and have an awareness campaign to raise environmental awareness among all our employees and members of the supporting companies.

Here we introduce “Use and Disposal” policy concerned with environment preservation as follows.

1. Please read the operator’s manual though for global environment protection and avoid overload job. Overload on the machine shortens the product life and increases the harmful exhaust gas which cause air pollution due to the incomplete combustion.

2. When replacing various fluids (for engine, transmission, hydraulics, etc.) by yourself, don’t dispose the used oil to anywhere not recommended. It can pollute the ground and water seriously. Please contact our local dealer to dispose it legally.

3. Observe the operator’s manual and store or dispose the waste product properly. Rust, oil, etc leaked from waste product improperly stored can pollute the ground and water. Accordingly for a waste product disposal, contact the necessarily “approved waste collection and recycling facility” to discard the used machinery legally.
1. GENERAL PRECAUTIONS

TO ENSURE SAFE OPERATION ................................................................. 1-2

BEFORE USING THE MACHINE ............................................................... 1-2
WHILE WORKING ..................................................................................... 1-11
AFTER USING THE MACHINE ................................................................. 1-13
PRECAUTION FOR PROLONGED STORAGE ............................................. 1-15
PRECAUTIONS IN INCLINED AREA ........................................................ 1-17
MAINTENANCE BEFORE OPERATING .................................................... 1-18
OTHERS ................................................................................................... 1-19

OVERVIEW OF SAFETY DECAL .............................................................. 1-30
TO ENSURE SAFE OPERATION BEFORE USING THE MACHINE

Make sure to observe the instruction given in this section to avoid equipment failure or personal injury or death.

⚠️ WARNING
Beware of exhaust gas;
- Start engine in a well ventilated area.
[Otherwise] The exhaust gas can cause intoxication and lead to fatal consequences.

⚠️ WARNING
Maintenance on a flat and safe place:
- Select a flat and safe location to secure the tractor in place and will not cause a risk to people passing by. Before carrying out the maintenance. Block the front and rear tires to prevent moving while servicing tracks.
[Otherwise] An unexpected accident may occur, such as overturning of the tractor.

⚠️ WARNING
Carry out maintenance in a well-lit place:
- Make sure work area is properly lighted.
- Use safety work lights with protection covering.
[Otherwise] An unexpected accident may occur, possibly fire or explosion.
**GENERAL PRECAUTIONS**

**WARNING**
Prepare for emergencies:
- Keep a first aid kit and fire extinguisher handy at all times while operating equipment.

**WARNING**
Do not drive if you are:
- Unable to concentrate because of fatigue, under treatment of medicine.
- Under the influence on alcohol.
- Pregnant.
- Under the age of 18.

**WARNING**
Wear the appropriate clothing when operating equipment
- Do not wear loose fitting clothes.
- Do wear proper foot wear with anti-slip soles, safety helmet and protective comfortable clothes to allow freedom of movement.

[Otherwise]
You will be exposed to a risk of being entangled with equipment resulting in injury.
Use only recommended implements:
• Be sure to use only implements which are recommended by manufacturer.
[Otherwise] An unexpected accident may occur or tractor may not perform properly.

WARNING
Fasten your seat belt at all times.
• Keep your seat belt fasten at all times while operation tractor.
[Otherwise] You will be exposed to a risk of death or serious injury if the tractor overturns.

WARNING
Check the safety of the tractor and start to move slowly:
• Only operate tractor while people or animals are at safe distance away.
• Check around the tractor, start the engine, and move slowly.
[Otherwise] There is a risk of injury.
**GENERAL PRECAUTIONS**

**WARNING**
Pay attention to the shoulder of the road:
- When moving along the unpaved road with ditches or slanted sides, pay attention to the shoulders.

[Otherwise]
The risk of falling over.

**WARNING**
Connect the break pedals when driving on a road:
- Make sure to connect the brake pedals when driving on a road.

[Otherwise]
There is a danger of abrupt turning or overturning due to one-sided braking when the brake pedal is depressed.

**WARNING**
Avoid braking, or turning at excessive Speed:
- Reduce throttle speed when making a turn, apply brake when driving on a hilly or curved roads.

[Otherwise]
The risk of overturning.
Observe traffic regulations and drive safely:
- When driving on the road, observe the traffic regulations and wear a helmet.

[Otherwise]
There is a danger of accident or injury.

Only driver should be aboard the tractor while in operation:
- This tractor is designed to allow only one operator. The driver must not allow anyone else to get on the tractor. (Especially, children).

[Otherwise]
An unexpected accident may occur.

Do not allow anyone near while operating the tractor or implement:
- When engaging or disengaging the implement by moving the tractor, make sure that no one is allowed around the tractor or between the implement or attachment and the tractor.

[Otherwise]
There is a danger of accident or injury.
Keep children away from the tractor:
• Fully warn children and keep them away from the tractor at all times.

[Otherwise]
There is a risk of injury.

Properly train anyone operating:
• Before allowing other people to use your tractor, explain how to operate and have them read this manual.

[Otherwise]
There is a danger of death, serious injury, or damage to the tractor.

Treatment of hazardous materials
• Properly discard hazardous materials.
• Hazardous materials from tractor are the following: Coolant, brake oil, oil filter elements, battery and so on.
• When draining fuel, oil or other liquids, use a container without holes. Do not dispose of chemicals on the ground or in rivers or waterways.
No smoking or open flame when fueling:
• Absolutely no lit cigarettes, matches, or lighters anywhere near when fueling the tank.
[Otherwise] Fire or explosion may occur.

**WARNING**
• Every day before operating the tractor, check for straws, dust, fuel, or other residue on and around the muffler and the engine and remove them.
[Otherwise] It may result in a fire.

**WARNING**
Frequency inspects the electrical parts and wiring:
• Inspect electrical wiring contact insulation to avoid shorting or spark.
[Otherwise] There is a risk of fire due to short circuit.
**CAUTION**

Do not over inflate tires:
- When filling tires with air, do not inflate it beyond the maximum pressure stated in this booklet.
[Otherwise] The tire may blow out, causing an injury.

**CAUTION**

Use correct tools:
- Use proper tools to carry out all maintenance procedure.
[Otherwise] There is a danger of accident due to poor maintenance.

**CAUTION**

Secure hood and side covers before operate tractor:
- After opening the hood for checking or maintenance, make sure to put them in their place.
[Otherwise] There is a risk that you may get entangled in the tractor or get injured.
CAUTION
Observe correct procedures when installing or removing the battery:
- Connect the (+) terminal first when installing the battery, and disconnect the (-) terminal first when removing it.

[Otherwise]
There is a risk of burn or fire due to short circuit.

WARNING
Connect dual brake pedal before moving tractor:
- Check if the brakes work properly and evenly on both sides or if the steering wheel is loose.

[Otherwise]
There is a risk of accident.

WARNING
Lock steering tilt before moving tractor:
- Except when you adjust the steering wheel, make sure that the tilt lever is placed in the <Lock> position.

[Otherwise]
The tractor may not turn to the direction you want and may cause an accident.
**GENERAL PRECAUTIONS**

**1. Avoid contact with the battery solution:**
- Be careful that your body or your clothes do not come in contact with the battery solution. If you come in contact with the battery solution, rinse it off with water immediately.

**3. DANGER**

**2. WARNING**

- Perform periodic maintenance, keep each part of the tractor in normal condition.
- Make sure to replace all hydraulic hoses and brake hoses once every two years.

**1. DANGER**

- **WARNING**

**3. WARNING**

- Use the loading ramps when crossing a ditch or a dike:
  - Be sure to use the loading ramps when crossing a ditch or dike, or when passing through soft land. The loading ramps must be suitable for the tractor in width, length and strength.
  - There is a risk of accident that the tractor may slip or turn over.
**WARNING**

Properly ventilate when working in a greenhouse:
- Ventilate the area to let out the exhaust gas.

[Otherwise]
The exhaust gas can cause intoxication and lead to fatal consequences.

---

**WARNING**

- Pay attention and keep hands on the steering wheel while driving.

[Otherwise]
There is a risk of accident to injury.

---

**WARNING**

- Stop the engine when removing grass, etc. from the blades of the cultivator.

[Otherwise]
There is a danger that you will get entangled in the cultivator or sustain a serious injury.
AFTER USING THE MACHINE

⚠️ CAUTION
Cover the PTO shaft when not in use.
When the PTO shaft is not in use, apply grease to it and keep it covered.
[Otherwise]
There is a risk that you may get entangled or get injured.

⚠️ CAUTION
• During operation and right after the engine is turned off, the muffler is very hot. Avoid touching it, as you may get burnt.
[Otherwise]
There is a risk of getting burnt.

⚠️ CAUTION
Be careful of high oil pressure:
• Make sure that the hydraulic coupling or the hose is not loose or damaged. Before separating the hydraulic coupling or the hose, eliminate the high pressure inside the hydraulic system.
[Otherwise]
The oil under high pressure may cause damage to the skin or injury.