

AgPubs L355SS

Kubota L355SS Tractor Service Manual

Model: L355SS | Brand: AgPubs

1. INTRODUCTION TO THIS MANUAL

This document serves as a comprehensive service and repair manual for the Kubota L355SS Tractor. It is designed to provide detailed instructions for overhaul, maintenance, and troubleshooting procedures, enabling users to perform repairs and upkeep effectively.

This manual is a quality reproduction, crafted for durability, and aims to save time and frustration by providing factory-authored, OEM-level information. It is superior to aftermarket alternatives for accurate and reliable guidance. Understanding the type of manual is crucial for your needs:

- **Service Manual:** Focuses on repair, overhaul, and troubleshooting. This document falls under this category.
- **Operators Manual:** Covers basic maintenance, operation, fluid types, quantities, and adjustments.
- **Parts Catalog:** Provides exploded views, part names, and factory (OEM) part numbers.

2. GENERAL INFORMATION AND TRACTOR IDENTIFICATION

This section covers general information and procedures for identifying your Kubota L355SS tractor.

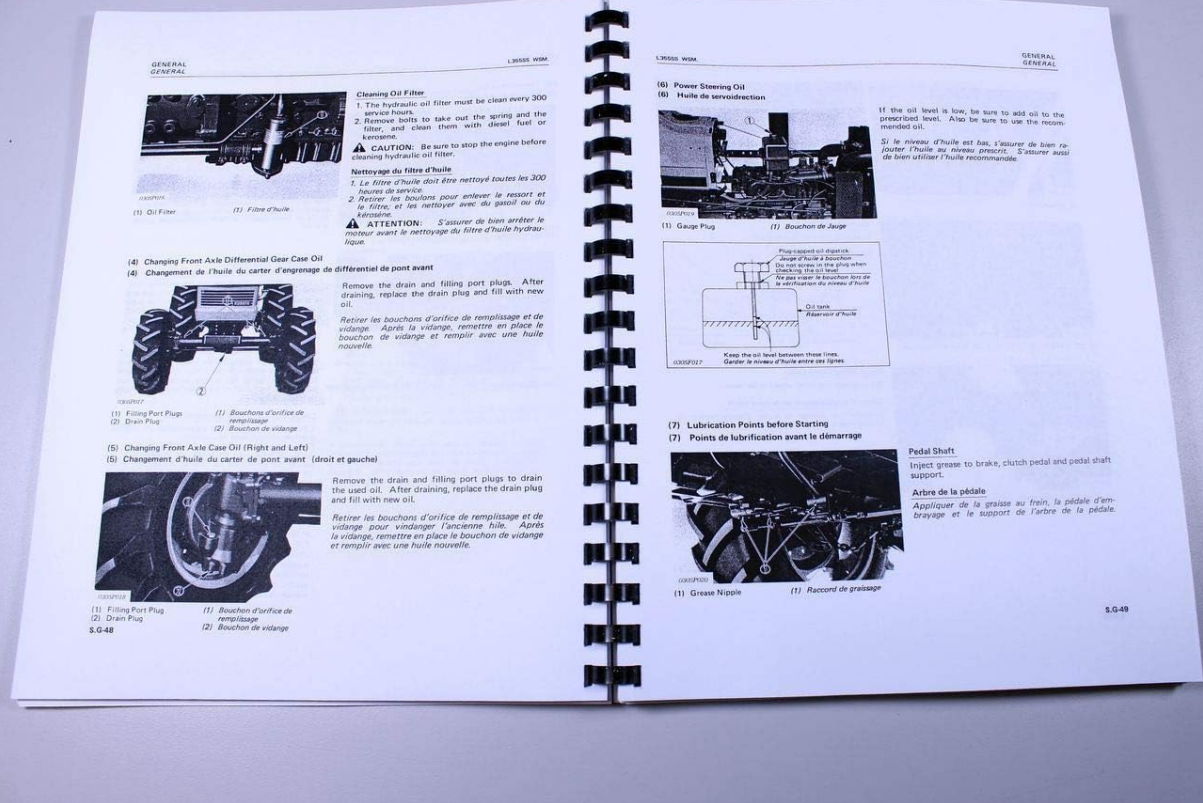


Figure 2.1: Tractor Identification Details. This image displays the identification plate, typically located on the tractor chassis, which contains crucial model and serial number information. Also shown is the steering wheel area, indicating the operator's perspective for controls and gauges.

Proper identification of your tractor is essential before commencing any service or repair work. Always refer to the identification plate for accurate model and serial numbers.

3. PRODUCT OVERVIEW AND KEY COMPONENTS

An exploded view of the Kubota L3555 tractor highlighting its main components and their relative positions.

ACTERISTIQUES

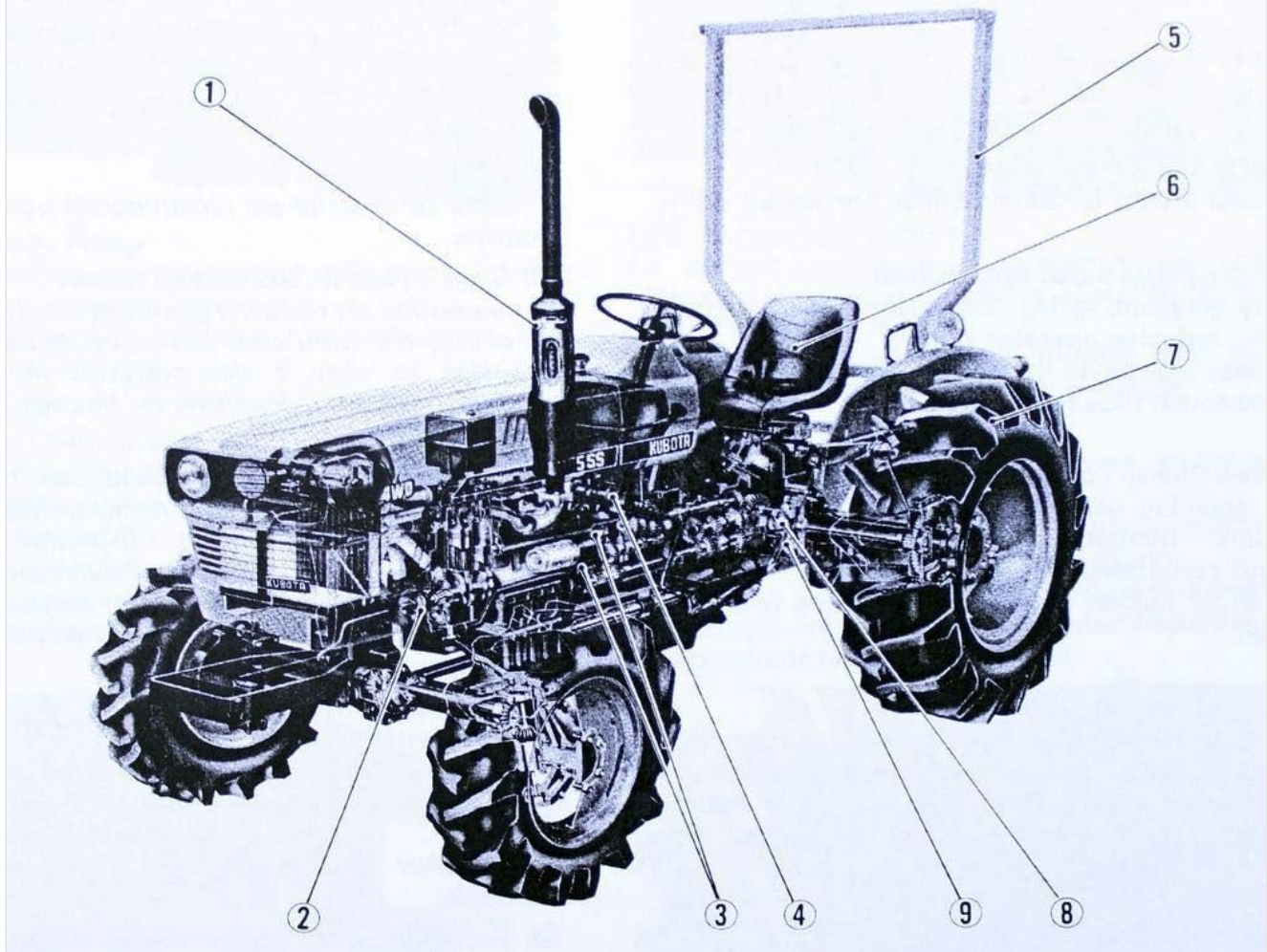


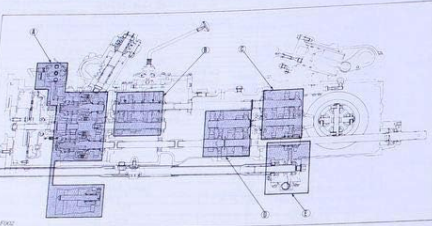
Figure 3.1: Kubota L355SS Tractor Component Diagram. This diagram provides an exploded view of the tractor, illustrating the major assemblies and their interconnections. Key components are numbered for reference, including the engine, transmission, axles, and operator's station. This visual aid is critical for understanding the tractor's overall structure before detailed disassembly or assembly.

Familiarity with the tractor's layout and component names is fundamental for effective service and maintenance. Refer to this diagram for a general understanding of the tractor's construction.

4. TRANSMISSION SYSTEM

Detailed instructions for servicing the Kubota L355SS tractor's transmission, including the hydraulic shuttle section and control mechanisms.

4.1 Hydraulic Shuttle Section

TRANSMISSION
TRANSMISSION

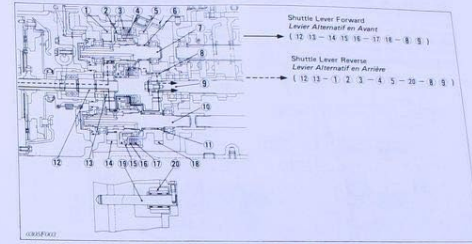
(A) Hydraulic Shuttle Section
(B) Main Gear Shift Section
(C) Range Selector Section
(D) PTO Shift Section
(E) Front Wheel Drive Section

The transmission consists of a series of gears shown previously. It offers the most suitable speeds for traveling and operation by combination of these gears. It transmits power to the front or rear axle and the PTO shaft, which are classified respectively as the traveling system and PTO system. The traveling system consists of the hydraulic shuttle section (A), main gear shift section (B), range selector section (C) and front wheel drive section (E). It has 8 forward and 8 reverse speeds. They are selected by the operation of the main gear shift, range selector and shuttle levers. The PTO system has a 540 rpm speed position and a neutral position.

(A) Section alternative hydraulique
(B) Section de changement de l'engrenage principal
(C) Section du sélecteur de vitesse auxiliaire
(D) Section de changement de la prise de force
(E) Section d'entraînement de la roue avant

La transmission consiste en une série d'engrenages montrés auparavant. Elle offre les vitesses les plus adaptées pour le voyage et le travail par la combinaison de ces engrenages. Elle transmet l'énergie au pont avant ou arrière et à l'arbre de la prise de force qui ont été classés comme respectivement le système de voyage et le système de la prise de force. Le système de voyage consiste en une section alternative hydraulique (A), une section de changement de l'engrenage principal (B), une section du sélecteur de vitesse auxiliaire (C) et en une section d'entraînement de la roue avant (E). Elle a 8 vitesses avant et 8 vitesses arrière. Elles sont sélectionnées par l'opération de changement d'engrenage principal, le sélecteur de vitesse auxiliaire et les leviers alternatifs. Le système de la prise de force a une position de vitesse de 540 tr/min et une position neutre.

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[1] HYDRAULIC SHUTTLE SECTION
SECTION ALTERNATIVE HYDRAULIQUE

(1) 30T Gear
(2) Clutch Case
(3) Steel Plate
(4) Clutch Disc
(5) 30T-78T Gear
(6) Needle Bearing
(7) Clutch Shaft Upper
(8) 18T Gear
(9) Main Shaft 2
(10) Clutch Shaft Lower

(11) Needle Bearing
(12) Main Shaft 1
(13) 18T Gear
(14) 30T Gear
(15) Clutch Case
(16) Steel Plate
(17) 30T-78T Gear
(18) Reverse Shaft
(19) 15T Gear

(1) Engrenage 30T
(2) Carter d'embrayage
(3) Plateau d'acier
(4) Disque d'embrayage
(5) Engrenage 30T-78T
(6) Roulement à aiguille
(7) Arbre d'embrayage supérieur
(8) Engrenage 18T
(9) Arbre principal 2
(10) Arbre d'embrayage inférieur

(11) Roulement à Aiguille
(12) Arbre principal 1
(13) Engrenage 18T
(14) Engrenage 30T
(15) Carter d'embrayage
(16) Plateau d'acier
(17) Disque d'embrayage supérieur
(18) Engrenage 30T-78T
(19) Arbre de marche arrière
(20) Engrenage 15T

The hydraulic shuttle transmission system is installed between the main clutch and main gear shift section. As shown previously, 18T gear (13) on the main shaft 1 (12) and 30T gear (1), (14) on the clutch case (2), (15) are constantly meshed with each other. The clutch case (2) is splined to clutch shaft upper (7), and the clutch case (15) is splined to clutch shaft lower (10). Therefore, the clutch shaft upper and the clutch shaft lower constantly rotate when the main clutch is in "Engaged" position. But power is not transmitted beyond the 30T-78T gear because the needle bearings (6), (11) are inserted between the clutch shaft upper (7) and 30T-78T gear (5), as well as between the clutch shaft lower (10) and 30T-78T gear (18).

The hydraulic shuttle transmission is used to "Engage" or "Disengage" power train between the clutch case and the 30T-78T gear using the

Le système de transmission alternative hydraulique est situé entre l'embrayage principal et la section de changement de l'embrayage principal. Comme indiqué auparavant, l'engrenage 18T (13) sur l'arbre principal 1 (12) et l'engrenage 30T (1), (14) sur le carter d'embrayage (2), (15) sont constamment en prise l'un avec l'autre. Le carter d'embrayage (2) est claveté à l'arbre d'embrayage supérieur (7) et le carter d'embrayage (15) est claveté à l'arbre d'embrayage inférieur (10). Par conséquent, l'arbre d'embrayage supérieur et l'arbre d'embrayage inférieur tournent constamment quand l'embrayage principal est "Engagé". Mais l'énergie n'est pas transmise au-delà de l'engrenage 30T-78T parce que les roulements à aiguilles (6), (11) sont insérés aussi bien entre l'arbre d'embrayage supérieur (7) et l'engrenage 30T-78T (5) qu'entre l'arbre d'embrayage inférieur (10) et l'engrenage 30T-78T (18).

M.T-2

Figure 4.1.1: Hydraulic Shuttle Transmission Diagram. This illustration details the internal components and hydraulic lines of the transmission's hydraulic shuttle section. It shows the arrangement of gears, shafts, and hydraulic cylinders responsible for forward and reverse movement. Understanding this diagram is crucial for diagnosing and repairing transmission issues.

The hydraulic shuttle transmission system allows for smooth and efficient directional changes. This section covers the components and operation of the hydraulic shuttle, including the main gear shift section and PTO shift section. Proper maintenance of this system ensures optimal performance and longevity.

4.2 Shuttle Lever Forward Position

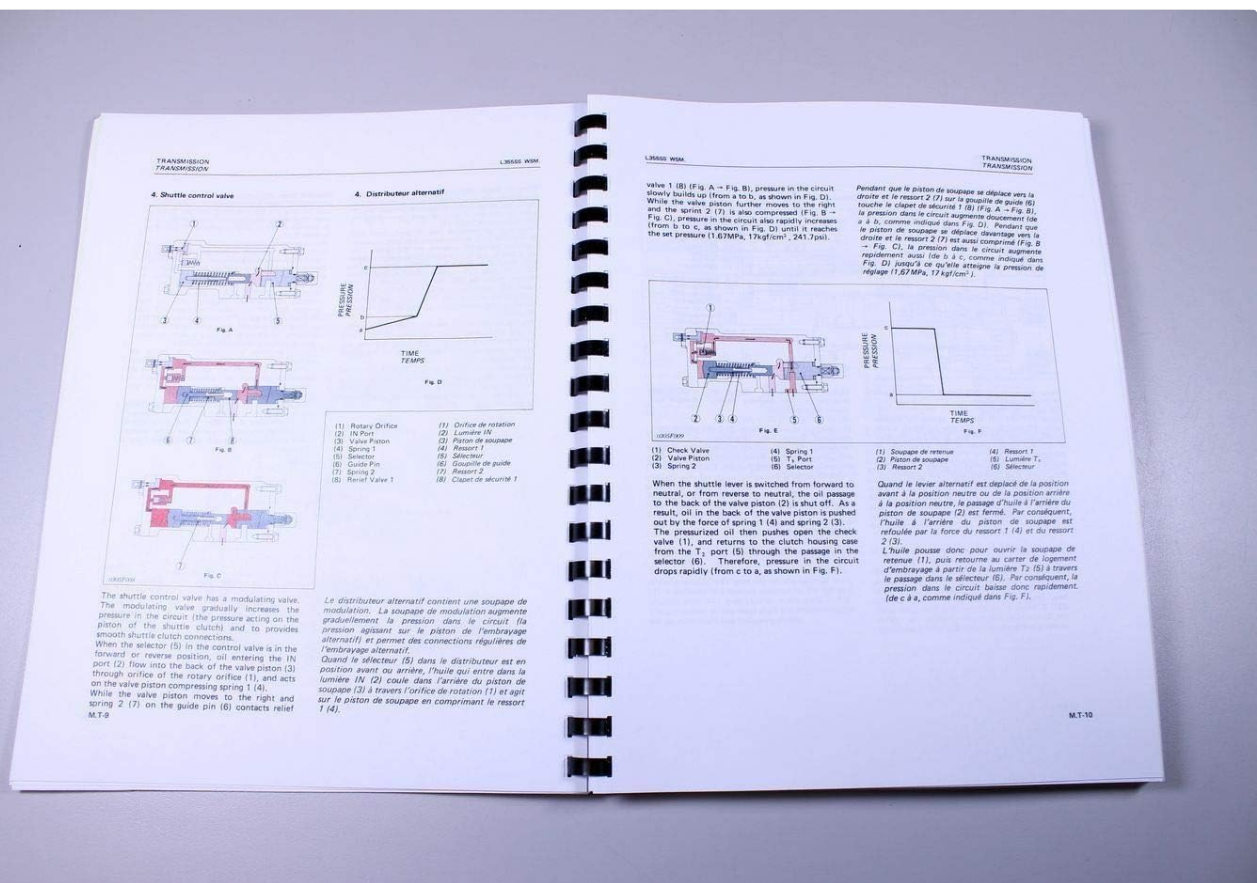


Figure 4.3.1: Shuttle Control Valve Operation. This image presents a detailed view of the shuttle control valve, including its internal components and hydraulic flow paths. It demonstrates how the valve modulates hydraulic pressure to engage and disengage the forward and reverse clutches. Proper functioning of this valve is critical for smooth and responsive directional changes.

The shuttle control valve is responsible for regulating hydraulic pressure to engage and disengage the forward and reverse clutches. This diagram illustrates its internal workings and how it influences transmission operation. Regular inspection and cleaning of this valve are recommended.

5. MAINTENANCE PROCEDURES

Essential maintenance procedures to ensure the longevity and optimal performance of your Kubota L355SS tractor.

5.1 Oil Filter Maintenance

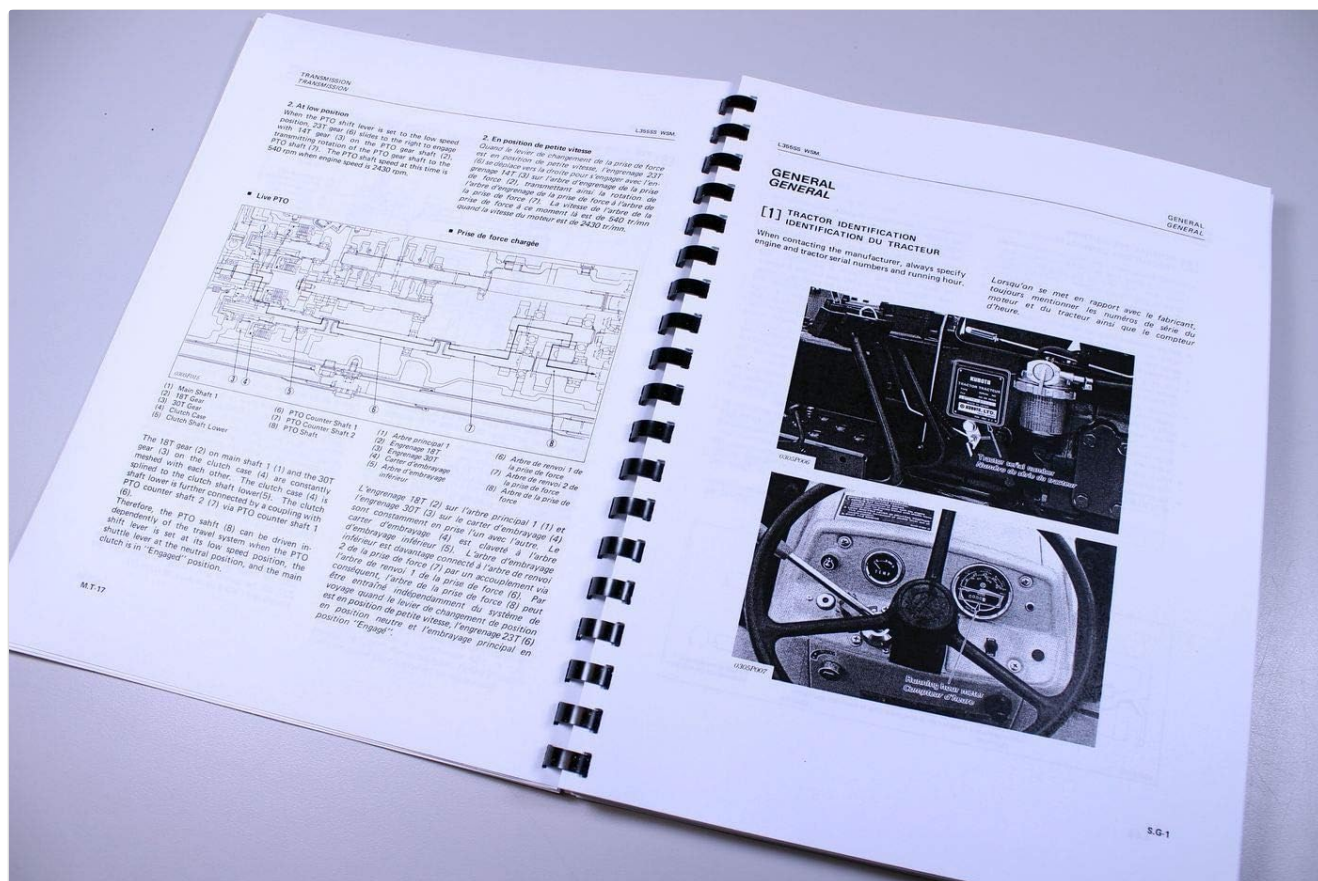


Figure 5.1.1: Oil Filter and Fluid Checks. This image shows the location of the chewing oil filter and provides guidance on checking power steering oil levels. It also illustrates the drain and fill plugs for the front differential gear oil. Regular checks and replacements of these fluids and filters are vital for engine and system health.

The chewing oil filter should be cleaned every 200 hours of operation or more frequently under dusty conditions. Remove bolts to take out the screen and wash it with diesel oil. Be sure to stop the engine before removing the hydraulic oil filter.

5.2 Power Steering Oil Check

If the oil level is low, be sure to add up to the prescribed level. Always use the recommended type of power steering fluid.

5.3 Front Differential Gear Oil

Remove the drain and filling start plugs. After draining, replace the drain plug and fill with new oil. Refer to the specifications section for the correct oil type and quantity.

5.4 Lubrication Points

Regular lubrication of moving parts is crucial. Apply grease to the brake, clutch pedal, and pedal shaft joints. Refer to the lubrication chart in the full service manual for all designated grease points and intervals.

6. SPECIFICATIONS

Key technical specifications for the Kubota L355SS Tractor.

Specification	Detail
Model	L355SS

Specification	Detail
Manual Type	Service / Repair / Overhaul
Manufacturer	AgPubs (Reproduction)
ASIN	B07K2H65L9
Customer Rating	4.3 out of 5 stars (based on 5 ratings)
Best Sellers Rank (Agricultural Machinery Spare & Replacement Parts)	#34,039

7. TROUBLESHOOTING GUIDE

This section provides general guidance for diagnosing common issues with the Kubota L355SS Tractor. For detailed troubleshooting steps, refer to the specific sections of this service manual.

- **Engine Not Starting:** Check fuel supply, battery charge, starter motor, and ignition system.
- **Loss of Hydraulic Power:** Inspect hydraulic fluid level, pump, and control valves for blockages or leaks.
- **Transmission Issues:** Verify fluid levels, check for proper engagement of shuttle lever, and inspect clutch components.
- **Brake Malfunction:** Examine brake fluid level, pedal linkage, and brake pads/discs.
- **Unusual Noises:** Identify the source of the noise (engine, transmission, axles) and inspect associated components for wear or damage.

Always ensure safety precautions are followed before attempting any troubleshooting or repair.

8. WARRANTY AND SUPPORT

This service manual is a reproduction and does not come with a direct manufacturer's warranty for the manual itself. For warranty information regarding your Kubota L355SS tractor, please refer to the original manufacturer's documentation that came with your equipment or contact an authorized Kubota dealer. For support related to the content of this manual, please contact the publisher, AgPubs, through their official channels if available. Always ensure you are using the correct manual for your specific tractor model and serial number.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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