KP-525 Tiger IV Tractor

Operators Manual

37-129

Reprinted

CASE IH

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NOTICE:

Because of design changes that may occur in the product since this manual was published, it is possible that some pictures and/or illustrations found within this manual may be different from those found on the product; however, the technical information found within the manual was correct at the time this manual was approved for publication.

Steiger Tractor, Inc. reserves the right to make changes without prior notification, in design specifications or other improvements on our products without incurring obligations to add them to any machine in existence.

If any information contained in this publication is not understood the user should contact his dealer for assistance.

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Differential Oil Check/Fill or Drain

To check the center differential oil level, remove the check plug shown. The oil level should be within 1/4 to 1/2 inch (6.4-12.7 mm) of the lower level of the plug opening.

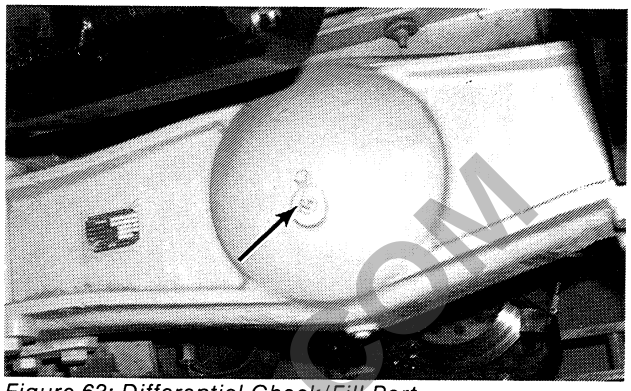


Figure 63: Differential Check/Fill Port

To drain the center differential remove the drain plug from the location shown.

NOTE: *When refilling an axle assembly after a complete drain, fill the wheel hubs to the proper level first, and fill the center differential housing last.*

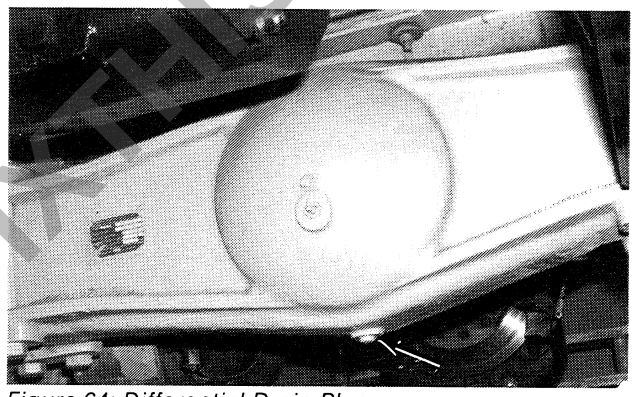


Figure 64: Differential Drain Plug

Axle Breather Vent

Remove the breather vent assembly at least every 100 hours and wash out in petroleum solvent and blow dry with compressed air. Reinstall the vent assembly.

NOTE: *If axle hub seals or pinion seals should suddenly show signs of leakage, suspect that the axle housing may be pressurized due to a plugged vent.*

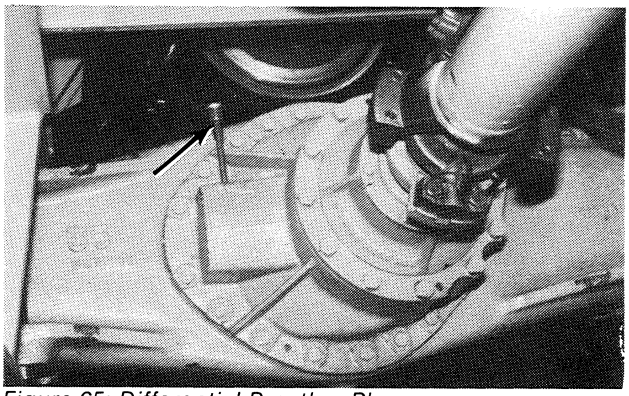


Figure 65: Differential Breather Plug

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STEIGER TRACTOR INC.

P.O. BOX 6006, FARGO, NORTH DAKOTA 58108

Series IV
KP 525
200 HOUR CHECK

THIS FORM MUST BE FILLED OUT BY THE DEALER AND SIGNED BY THE CUSTOMER WHEN THE PREDELIVERY CHECK IS PERFORMED IN ORDER FOR THE WARRANTY TO BE VALID.

OWNER NAME			DEALER NAME		
ADDRESS			ADDRESS		
CITY	COUNTY	STATE	CITY	COUNTY	STATE
TELEPHONE NO.		ZIP CODE	DEALER I.D.		ZIP CODE
MACHINE		MODEL NAME	HOURS		
MODEL NO.		TRACTOR S/N	DATE		
ENGINE MODEL		ENGINE S/N	NOTE: Record Serial Numbers Directly From Tractor		

INOPERATIVE SERVICE CHECKS
Check and Adjust as Required.

( ) Engine Oil Level
( ) Engine coolant level
( ) Check all fuel and hydraulic line routings and tightness.
( ) Brake master cylinder full.
( ) Hydraulic oil level full
( ) Transmission oil level (cold check).
( ) Transfer case oil level (cold check)
( ) Differential oil levels
( ) Wheel hub oil levels
( ) Grease all lube points as required
( ) Air cleaner filters and hose connections (in position and tight)
( ) Engine air and exhaust stack
( ) Tire pressures (check)
( ) Battery cables tight and clean
( ) Cab air filter (in position)
( ) All belt tensions
( ) Engine mount bolts
( ) All driveshaft flange and U-joint bolts torqued
( ) Wheel lug bolts torqued
( ) Dual bolts torqued
( ) Hinge pins tightened
( ) Check all electrical cables and wire routings keeping away from sharp edges, moving parts and exhaust heat
( ) Cab seat adjusts
( ) Cab interior upholstery, trim, mouldings and general appearance
( ) Cab mount bolts torqued
( ) Door latches and lock operation.
( ) Cab and door glass seals.
( ) Steering column adjusts.
( ) Radio working
( ) All lights and switches working
( ) Paint
( ) All decals on and correct
( ) Hitch pin (supplied)
( ) Operator's manual in cab
( ) Record all serial numbers on back cover of Operator's manual
( ) Install SMV Emblem

OPERATIONAL SERVICE CHECKS

All Operative Checks are to be performed with the tractor at normal operating temperatures.

( ) Engine oil pressure normal
( ) Engine temperature normal
( ) Engine low idle_____ (Record)
( ) Engine high idle_____ (Record.)
( ) Throttle and linkage
( ) All instruments and gauges operational, volt meter in green band
( ) Starting and Starter Neutral Switch
( ) Steering functions smoothly
( ) Air conditioner and heater operation
( ) Hi-Lo range selector lever operation.
( ) Hydraulic control valves working
( ) Windshield wiper/washer operational
( ) Fluid and oil leaks.
( ) Park brake
( ) Transmission oil level (hot check)
( ) Transfer Case Oil Level (hot check)

PERFORMANCE CHECK

( ) Transfer Case operation
( ) Transmission operation
( ) Brake action
( ) Engine operation including throttle and governor operation
( ) All optional equipment and accessories
( ) Steering Operation

OPTIONS

Check as required.

THREE-POINT

( ) Lubricate and adjust
( ) Fluid leaks

Dealer Comments _____

_____

Owner's Signature _____ **Date** _____

Dealer Copy

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Operating The 4-Speed Transfer Case

The 6-speed Powershift transmission and 4-speed transfer case combination will provide the operator with 24 speeds forward and 4 speeds in reverse.

The operator must first determine the maximum ground speed he desires to travel. He must then shift the left and/or right transfer case range levers forward or rearward for the selected speed as indicated on the ground speed decal located on the dash.

IMPORTANT: *The transfer case range selector levers must be shifted into the desired range, "A", "B", "C" or "D",* ***before*** *the transmission range selector is moved out of the neutral position.* ***Do Not*** *attempt to shift the transfer case on the go. The tractor must come to a complete stop and the engine speed reduced to low idle with the transmission in neutral before shifting.*



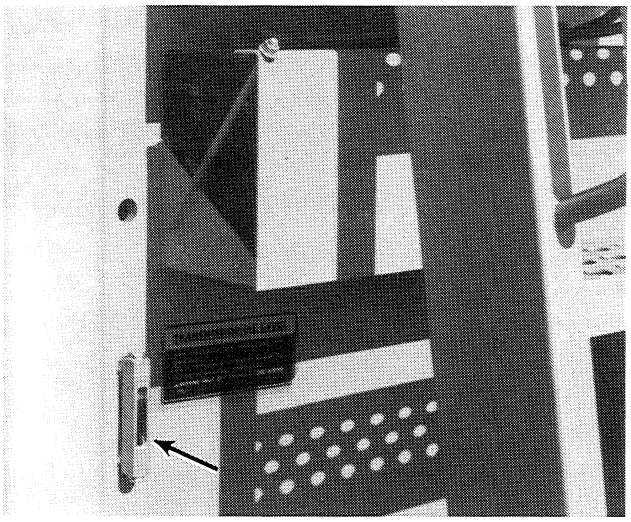
Figure 8: Transfer Case Range Control

Operating the Power Shift Transmission & Throttle

Check the transmission oil level sight gauge prior to starting. After the engine has been started and has reached operating temperature, recheck the transmission oil level with the engine idling in neutral at 600 rpm. The oil level should be at or near the full mark on the sight gauge.

! CAUTION: BE SURE the park brake is applied and the transmission is in neutral when leaving the operator seat with the engine running. There is no park position in the transmission.

Depress the brake pedal and place the throttle lever to low idle and select the desired direction or speed range on the range selector. Release the brakes and increase the engine speed to move the load. The engine speed should be kept within the rated horsepower rpm range (1700-2100 rpm) to keep the torque converter in "lock-up" when the tractor is under load.


Figure 9: Transmission Oil Level Sight Gauge

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Foreword

If the user requests the dealer to perform warranty obligations or inspections at locations other than the dealers service shop, travel costs to such locations are usually paid by the owner/user. Arrangements for travel costs and service performed at locations other than the dealer shop should be agreed upon at the time of the service request.

Setting fuel delivery above factory specifications or otherwise overpowering the tractor will void the warranty.

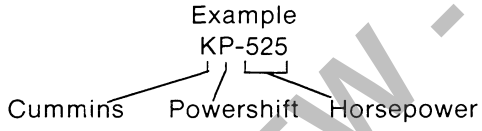
The Warranty Policy printed on the inside front cover of this manual is provided for your convenience. To prevent any misunderstanding regarding warranty, this policy should be read.

Steiger Model Designations

The following information will help you translate the model designation emblem on the tractor.

The "K" represents a Cummins engine. The "P" designates the Powershift Transmission.

In the numerical sequence the three numbers following identifies engine horsepower.



It is important to know the Product Identification Number (P.I.N.) and the tractor serial number. This information should be recorded in the space provided on the inside rear cover of this manual. Use the information in all correspondance when referring to the tractor. For your convenience there is a service and maintenance chart printed on this page also.

New Machine Maintenance Requirements

The new tractor break-in period requires some maintenance intervals to differ from the normal maintenance schedules. After the first 50 hours of operation the engine crankcase oil and engine filters require replacement.

After the first 100 hours of operation the axle(s) lube oil is to be drained and replaced with new oil. The hydraulic and transmission system filters also require replacement after the first 100 hours of operation. The hydraulic oil does not require changing until the first scheduled maintenance period of 1000 hours or annually, which ever occurs first.

These procedures are necessary in order to flush out any contamination or other particles that may be present in these systems during the "wear-in" process, which cannot be done during the machining process.

NOTE: *Steiger Tractor, Inc. does not endorse specific brands of lubricants. We consider it the obligation of the supplier to assure that all lube oils meet the applicable specifications. See the "Specifications" section of this manual for fluid capacities and specifications.*

Towing

If a problem should arise requiring repairs that cannot be done in the field, it is required that this tractor be transported on another vehicle and not be towed.

This tractor "cannot" be pulled or towed to start the engine. Even though the transmission output shaft would be turning, the internal oil pump in the transmission would not. In this situation the transmission could not be lubricated or pressurized and severe transmission damage will result.

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All driven assemblies must be secured in operating position before reading or judging belt tension.

1. **Always shorten distance between pulley centers so belt can be installed without force. Never roll belt over the pulley and never pry it with a tool such as a screwdriver. Either will damage belts and cause early failure.**

2. **Replace belts in complete sets. Belt riding depth should not vary over 1/16 inch (1.59 mm) on matched belt sets.**

3. **Pulley misalignment must not exceed 1/16 inch (1.59 mm) for each foot (0.3 m) of distance between pulley centers.**

4. **Belts should not bottom on pulley grooves nor should they protrude over 3/32 inch (2.38 mm) above top edge of groove.**

5. **Do not allow belts to rub any adjacent parts.**

Readjusting New Belts

All new belts will loosen after running a short period of time and must be readjusted to installation tension. After initial installation and retensioning, belts should then be set at running tension.

Adjust alternator and compressor belt tension to 5/8" (1.57 cm) deflection with a 25 lb (11.3 Kg) load.

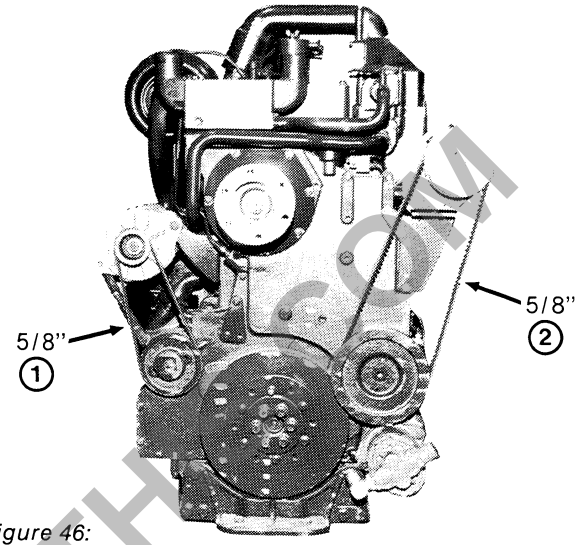


Figure 46:

1-Alternator Belt
2-A/C Compressor Belt

Filling Fuel Tank

Fill the fuel tank at the end of each working day. This will prevent the accumulation of moisture on the walls of the tank as the tank cools. **Use only recommended fuels.**

CAUTION: Refuel in a safe place away from open fire or sparks with the engine stopped. Do not smoke while refueling.

Fill tank only to the level of the vent holes located on the inside of the filler tube. The vent hole allows for fuel expansion. Fill beyond the vent hole may cause expansion spillage.

IMPORTANT: *Use clean fuel, use clean fuel storage tanks and clean fill equipment.*

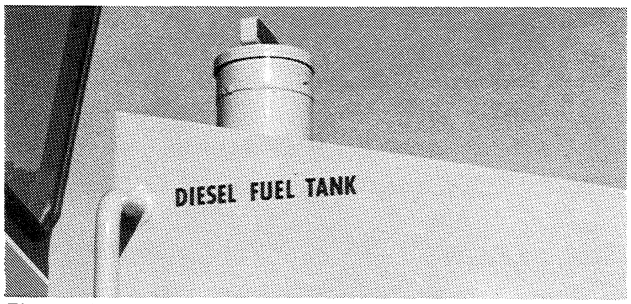


Figure 47:

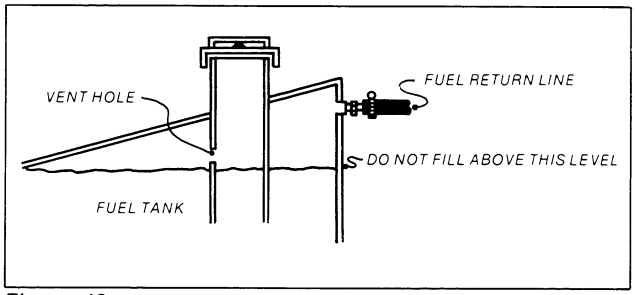
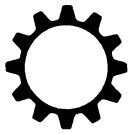


Figure 48:

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INTERNATIONAL SYMBOLS


TRANSMISSION OR CONVERTER


TRANSMISSION OR CONVERTER OIL


TRANSMISSION OR CONVERTER OIL FILTER


TRANSMISSION OR CONVERTER OIL LEVEL

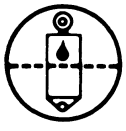

TRANSMISSION OR CONVERTER OIL PRESSURE


TRANSMISSION OR CONVERTER OIL TEMPERATURE

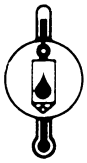

TRANSMISSION DRIVE OIL LEVEL


TRANSMISSION DRIVE OIL TEMPERATURE


TRANSMISSION CONTROL OIL PRESSURE


HYDRAULIC OIL FILTER


HYDRAULIC OIL LEVEL


HYDRAULIC OIL TEMPERATURE


ENGINE OIL


ENGINE OIL FILTER

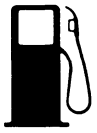

ENGINE OIL LEVEL


ENGINE OIL PRESSURE


ENGINE – HEAT


ENGINE – START OR RUNNING


ENGINE – STOP OR NOT RUNNING


FUEL TANK


FUEL FILTER


FUEL LEVEL

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Weight Adjustment

The weight adjustment range is from 110 to 280 lb (50-127 Kg). To adjust turn handwheel (1) CW or CCW to achieve weight setting. The weight setting selected will register in "pounds" on the dial (2).

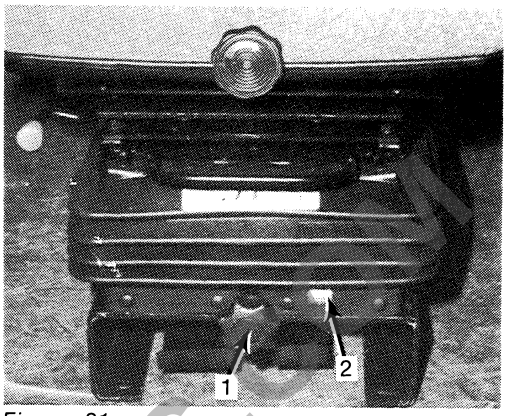
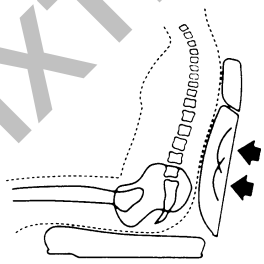


Figure 31:

Lumbar Adjustment

The seat has both vertical and horizontal lumbar adjustment features; with the horizontal adjustment handwheel on the left side of the backrest and the vertical adjustment handwheel on the right side.



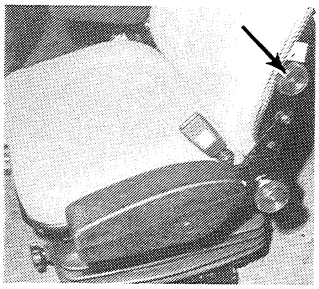


Figure 32:

Lateral Isolator

The lateral seat movement isolator may be locked out by the lockout lever located on the left side of seat cushion.

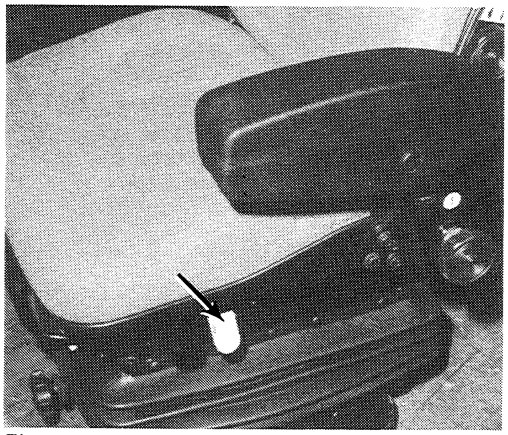


Figure 33:

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Frame Articulation Retainer

Whenever lifting or transporting of the tractor on another vehicle is required the frame articulation retainer **must** be installed.

WARNING: Install locking bar between front and rear frames - (See Fig. A)
1. Before service work is done near center of tractor
2. Before lifting or transporting the tractor on another vehicle

Before operating the tractor when steering is required be sure locking bar is removed and secured in the storage position (See Fig. B).

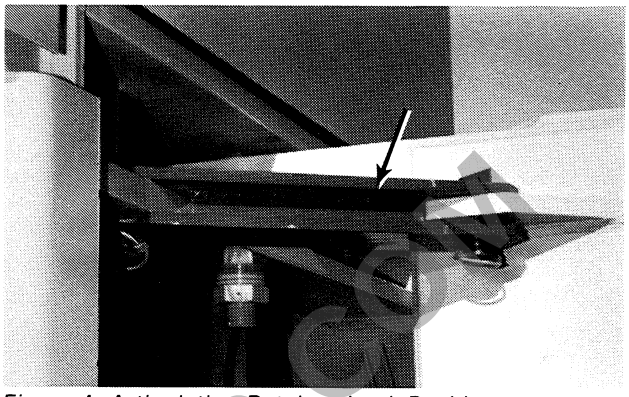


Figure A: Articulation Retainer Lock Position

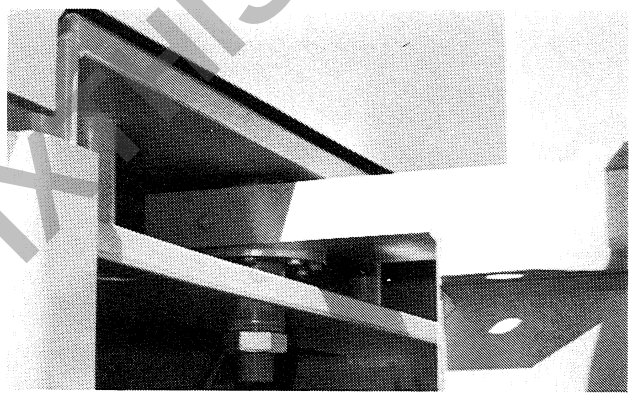


Figure B: Articulation Retainer Removed

Locking Bar Installation

Steer the tractor in a straight ahead position, shutdown the engine, position the locking bar and install the front pin. If the rear pin will not drop in place restart the engine to make minor correction(s) in tractor position. Shutdown engine and install pin.

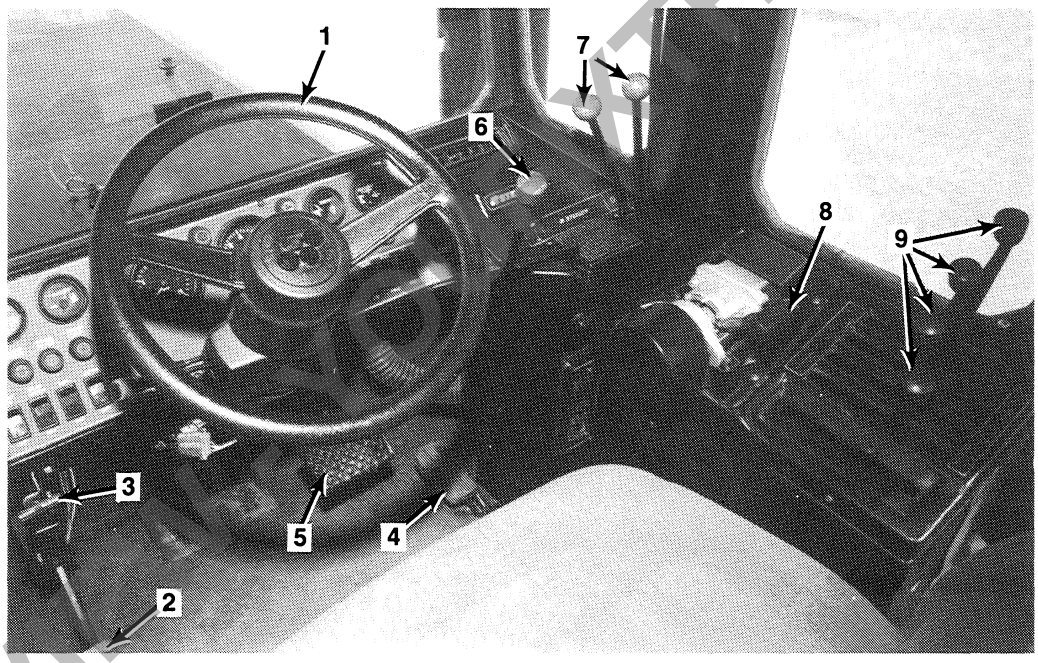
WARNING: Do not attempt to install locking bar while the engine is running.

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Know the Tractor Controls and Instruments to Assure Safe Operation.

Instruments and Controls



1- Steering Wheel
2- Park Brake Pedal
3- Park Brake Release Lever
4- Decelerator Foot Pedal
5- Main Brake Pedal
6- Throttle Control Lever
7- Transfer Case Range Levers
8- Transmission Shift Control
9- Hydraulic Remote Valve Control Levers

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