

**CM, KM & SM
Tractors**

Operators Manual

37-123R1

Reprinted





*This symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.** The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.*

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

STEIGER TRACTOR, INC. NEW EQUIPMENT WARRANTY FOR AGRICULTURAL EQUIPMENT

Steiger Tractor, Inc. (Steiger) warrants to an authorized Steiger dealer and the Steiger dealer, in turn, warrants to the original purchaser each item of new Steiger agricultural equipment to be free of defect in material or workmanship, subject to the following provisions.

WARRANTY PERIOD

Warranty starts on the date the equipment is delivered to the original purchaser and is extended for a period of:

Tractors	Base warranty period - Twelve (12) months or 1500 hours, whichever occurs first. Extended drivetrain warranty period - Additional twelve (12) months or a total of twenty-four (24) months, or 1500 hours, whichever occurs first. Applies to clutch, transmission, driveline, transfer case, axle assemblies (engine excluded). Caterpillar engine warranty period - Twenty-four (24) months, unlimited hours (Administered by Steiger in U.S. and Canada).
Tillage Equipment	Twelve (12) months, unlimited hours.
Steiger Service Parts	Steiger service parts and remanufactured parts purchased from an authorized Steiger dealer are warranted to be free of defect in material or workmanship for a period of 90 days, starting from the date of purchase or for the balance of the Steiger equipment's warranty period, whichever is greater.
Caterpillar Service Parts	Caterpillar service parts and remanufactured parts purchased from a Caterpillar dealer and used on Steiger equipment are warranted to be free of defect in material or workmanship for a period of 180 days, starting from the date of purchase or the balance of the Steiger equipment's warranty period, whichever is greater.

WARRANTY REGISTRATION

Warranty will become valid only when a warranty registration form for agricultural equipment has been properly completed and received by Steiger.

SECURING WARRANTY REPAIR

Warranty service will be performed by any Steiger dealer authorized to sell and/or service the type of equipment involved. When securing warranty service, preference should be given to the dealer from which the equipment was purchased.

STEIGER RESPONSIBILITIES

If a defect is found in material or workmanship during the warranty period, Steiger will:

- . Repair the part or at its option, replace the part with new or remanufactured part.
- . Reimburse dealer's labor cost when warranty is performed during normal working hours at dealer's place of business. (Labor cost excluded under Steiger and Caterpillar service parts warranty).

PURCHASER RESPONSIBILITIES

- . Transport equipment to dealer's place of business for purpose of performing warranty repair.
- . Cost of dealer service calls and/or transportation charges to transport equipment to and from the dealer's place of business for the purpose of performing warranty repair.
- . Premium or overtime labor cost requested by purchaser.
- . Cost of normal maintenance and normal replacement of service items such as, oil filter, cutting parts, belts, etc.
- . Give timely notice of a warrantable repair within the warranty period and promptly make the equipment available for repair.
- . Cost of removal and replacement of modifications not authorized by Steiger.
- . Provide evidence of date of delivery of equipment or purchase date of service parts, whichever is applicable when securing warranty service.

LIMITATIONS

Warranty Does Not Cover:

- . Cummins engines, Caterpillar engines (other than in U.S. and Canada), Detroit Diesel Allison transmissions, tires and tubes are not covered by Steiger's warranty, but rather by the respective manufacturer's warranty.
- . Failures resulting from misadjustment, abuse, lack of lubrication, improper maintenance, normal wear, accident or improper use.
- . Failures resulting from modifications of equipment or equipment altered in ways not approved by Steiger.
- . Attachments, accessory items and parts not sold by Steiger.
- . Repairs required due to purchaser's unreasonable delay in making equipment available after notice for product improvements ordered by Steiger.
- . Warrantable repair cost, when such repairs are performed by other than authorized Steiger dealer.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED AND THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL STEIGER, ITS EMPLOYEES, ITS DEALERS OR ANY COMPANY AFFILIATED WITH STEIGER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR INJURIES, INCLUDING, BUT NOT LIMITED TO: LOSS OF CROPS, LOSS OF PROFITS, RENTAL OF EQUIPMENT, LOSS OF USE OR OTHER ECONOMIC LOSSES.

STEIGER TRACTOR INC.

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

Series IV

CM & KM Series PREDELIVERY 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.
- Clutch master cylinder full.
- Brake master cylinder full.
- Hydraulic oil level full.
- Transmission and transfer case oil sump full.
- 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.
- 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.
- Clutch and linkage adjustment.
- 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.

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 levers operation.
- Hydraulic control valves working.
- Windshield wiper/washer operational.
- Fluid and oil leaks.
- Park brake.

PERFORMANCE CHECK

- Transmission, Transfer case and clutch.
- 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

STEIGER TRACTOR INC.

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

Series IV

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MODEL NO.		TRACTOR S/N	DATE		
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- Engine air and exhaust stack
- Tire pressures
- Battery cables tight and clean
- Cab air filter (in position)
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- Starting and Starter Neutral Switch
- Steering functions smoothly
- Air conditioner and heater operation
- Hi-Lo range selector levers operation
- Hydraulic control valves working
- Windshield wiper/washer operational
- Fluid and oil leaks
- Park brake

PERFORMANCE CHECK

- Transmission, Transfer case and clutch
- 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 _____

Customer Copy

STEIGER TRACTOR INC.
P.O. BOX 6006, FARGO, NORTH DAKOTA 58108

CM & KM Series
200 HOUR CHECK

THIS FORM MUST BE FILLED OUT BY THE DEALER AND SIGNED BY THE CUSTOMER AT THE TIME THE 200 HOUR 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			

INOPERATIVE SERVICE CHECKS

Check and Adjust as Required.

- () Engine Oil Level.
- () Engine coolant level.
- () Check all fuel and hydraulic line routings and tightness.
- () Clutch master cylinder full.
- () Brake master cylinder full.
- () Hydraulic oil level full.
- () Transmission and transfer case oil sump full.
- () 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.
- () 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.
- () Clutch and linkage adjustment.
- () 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.
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- () Park brake.

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THREE-POINT

- () Lubricate and adjust.
- () Fluid leaks.

Dealer Comments _____

Owner's Signature _____ **Date** _____

Dealer Copy

STEIGER TRACTOR INC.

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

CM & KM Series 200 HOUR CHECK

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TELEPHONE NO.		ZIP CODE	DEALER I.D.		ZIP CODE
MACHINE		MODEL NAME	HOURS		
MODEL NO.		TRACTOR S/N	DATE		
ENGINE MODEL		ENGINE S/N			

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- Steering Operation.

OPTIONS

Check as required.

THREE-POINT

- Lubricate and adjust.
- Fluid leaks.

Dealer Comments _____

Owner's Signature _____ Date _____

Customer Copy

IMPORTANT

SUPPLEMENT TO

SERIES IV CM-KM-SM

Operation & Maintenance Manuals

General Information

SM-325 Panther IV

The only basic difference between the CM-KM model tractors referred to within this manual and the new SM-325 Panther IV is the engine configuration.

Because of the new Komatsu engine configuration in the SM 325 we have added a supplement to this manual covering the Komatsu engine specifications and engine start/stop procedures.

CM (Cat powered) and KM (Cummins powered) tractors feature an "energized to run" fuel pump shut-off solenoid controlled by the master key switch to start and stop the flow of fuel to the engine.

The SM-325 (Komatsu powered) engine features a manual operated cable arrangement for fuel shut-off.

With the exception of the above, all other Specifications, Instruments and Controls, Operating, Service and Maintenance information contained within this manual also applies to the SM-325 Panther IV.

Starting Information

SM-325 Panther IV

1. Before starting place the transmission control lever in neutral.
2. Set the throttle approximately 1/4 of the way forward (approx 1200 rpm position) and depress the clutch pedal.
3. Push the engine stop knob (A) all the way "in" (Fig. 1).
4. Turn the key switch fully clockwise to crank engine. Release key switch to run position when engine starts. If key is released before engine starts, wait until starter and engine stop turning before trying again.

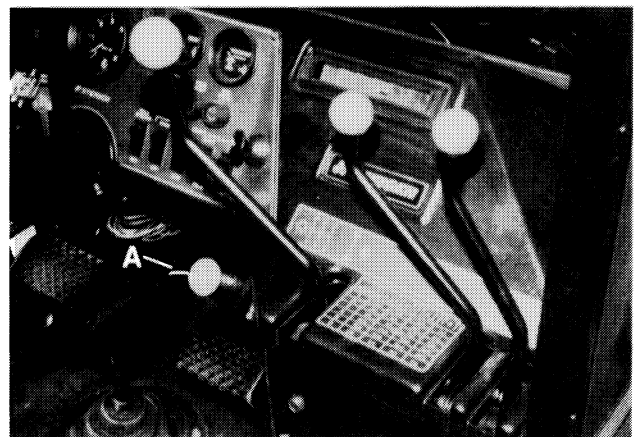


Figure 1:

IMPORTANT: Leave key switch in the "run" position whenever the engine is running to energize the electrical and audio warning alarm systems.

Engine Stopping Procedure

SM-325 Panther IV

1. Stop the tractor and pull throttle back to slow idle position.
2. Place transmission in neutral and apply park brake.
3. Lower all equipment to the ground.

IMPORTANT: *If the engine has been operating under load, let the engine idle at least one minute at slow idle to stabilize and cool the engine parts.*

4. To stop the engine pull the stop knob all the way "out". After the engine stops, push the stop knob back "in" (Fig. 2).
5. Turn the master switch key to "lock" position and remove the switch key to prevent accidental start-up.

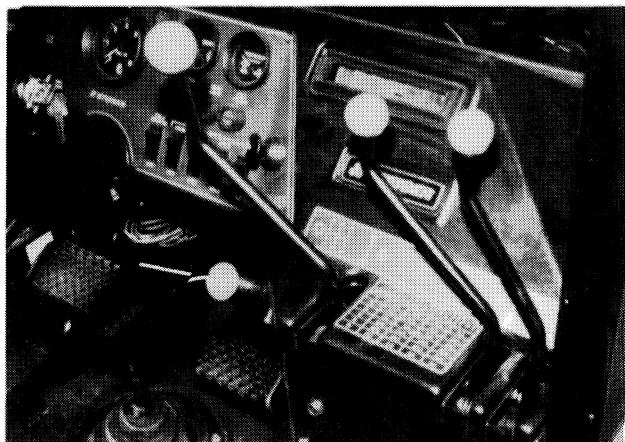


Figure 2:

Clutch

General Specifications

Type: 15.5 in. (38 37 cm) diameter, dry type with dual plate 6-button iron based discs. Hydraulically actuated with electrically controlled engine decelerator.

Transmission & Transfer Case Information

All CM-KM & SM Models

Since this manual was printed, 10W-30 CD qualified oil has been approved for the transmission and transfer case. CD type 10W-30 is factory fill.

SM-325 Shipping Weight: 26,251 lb (11,907 Kg) with 20 8 x 38 8-ply R1 dual tires

Maximum Warranted Weight: 34,000 lb (15, 436 Kg)

IMPORTANT: *With the exception of the above information, all other control, operating, specifications and service information within this manual pertaining to CM and KM models will also apply for the SM model tractor.*

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ebooklibonline@outlook.com