**TECHNICAL MANUAL**

# OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS INFORMATION AND SUPPLEMENTAL OPERATING, MAINTENANCE AND REPAIR PARTS INSTRUCTIONS)

**ROLLER MOTORIZED,**
**STEEL WHEEL2 DRUM**
**TANDEM, 10-14**
**TON (CCE)**
**HYSTER MODEL C350B-D**
**NSN 3895-00-578-0372**

**H E A D Q U A R T E R S , D E P A R T M E N T O F T H E A R M Y**

**27 MARCH 1981**

TECHNICAL MANUAL
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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *27 March 1981*

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**ROLLER MOTORIZED, STEEL WHEEL 2 DRUM**

**Tandem 10-14 TON (CCE)**

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**CONTRACT NO. DSA700-74-C-9024**

**REPORTING OF ERRORS**

**You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Tank-Automotive Materiel Readiness Command, ATTN: DRSTA-MBS, Warren, MI 48090. A reply will be furnished to you.**

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

**PART I**

**SERVICE MANUAL**

# STEEL WHEEL ROLLER C350B

**CONTRACT NO. DSA 700-74-C-9024**

**OPERATING INSTRUCTIONS**

**C350B STEEL WHEEL ROLLER**

## Starting

1. Set park brake.
2. Move throttle bail to neutral (vertical position).
3. Start engine.

4. *To Protect Engine and Transmission:*
   Do not operate above half throttle until transmission temperature is over 100°F.

## Operating

1. Release park brake.
2. Direction and speed are controlled by bail. Machine will travel in direction bail is moved. Additional bail movement increases speed.
3. To prevent lugging engine on an upgrade move bail back towards neutral position.
4. Use emergency stop, identified on dash in red, only if engine speed cannot be controlled.

## Stopping

1. Put throttle bail in neutral (vertical position).
2. Set park brake.
3. Turn ignition switch to off position.

*Do not Tow* - In case of machine malfunction, vehicle may be moved at slow speed by opening transmission by-pass valve. This is done by pulling up and locking the control cable located under the hood on the hydraulic tank side of the unit.

**FOR SAFETY**

**TRAINED OPERATOR ONLY**

1. Use slower speed and added caution when operating close to fill edge and when traveling downhill.
2. Travel up and down the grade when operating on slopes.
3. Report damage and faulty operation immediately, do not operate machine until corrected.
4. Always set park brake before getting off machine. Transmission will not hold parked machine on a grade.
5. Follow the operating instructions above and in the owners and operators manual. Extra copies available from your Hyster dealer.

**DIESEL ENGINE GUARANTY CLAUSE**
**FOR GOVERNMENT CONTRACTS**

Notwithstanding the provisions of Clause 5 of the General Provisions, entitled "Inspection", the Contractor guarantees that, at the time of delivery thereof, the supplies provided for under this contract will be free from defects in material or workmanship and will conform to the requirements set forth in the contract. Notice of any alleged defect or non-conformance shall be given by the Government to the Contractor within one (1) year following delivery of the allegedly defective or non-conforming item. The Contractor shall be afforded the opportunity to examine the allegedly defective or non-conforming supplies, or parts thereof, at the site at which the suspected malfunction is experienced or, if field examination cannot be accomplished, such allegedly defective or non-conforming supplies, or parts thereof, shall be returned freight collect via cheapest transportation to the Contractor's plant. The Contractor shall with all possible speed, exchange such supplies, or parts thereof, with supplies or parts of like kind and ship such supplies or parts thereof freight prepaid to the location from which the defective or non-conforming supplies or parts thereof were returned or, if such location is not within CONUS, to the port of embarkation or other location within the original 48 States or the District of Columbia prescribed by the Contracting Officer, provided examination of such supplies or parts thereof discloses to the Contractor's satisfaction that the material received (a) was defective or non-conforming when delivered, or (b) has become defective or non-conforming since delivery for reasons other than as a result of having been (1) improperly repaired, altered or subjected to misuse, negligence, accident, or lack of normal maintenance services, or (2) operated at load factors which, although consistent with the user's duty cycle requirements, are in excess of Detroit Diesel Allison's published commercial ratings for the product. This Guaranty shall then continue as to any such exchange supplies or parts thereof until one (1) year after the date of delivery thereof.

Notwithstanding the foregoing, the Contractor's total liability for transportation charges shall not exceed the cost of transporting the allegedly defective or non-conforming supplies, or parts thereof, by the usual commercial surface method of shipment, from the shipping destination originally specified under this contract for the applicable CLIN to the Contractor's plant and return, and the Government shall reimburse the Contractor for all transportation expense in excess of such amount upon request.

If the Government does not require the exchange of any supplies, or parts thereof agreed to be defective or non-conforming, the Contractor, if required by the Contracting Officer within a reasonable time after notice of the defect or non-conformance, shall repay such portion of the contract price for the supplies as is equitable in the circumstances and comparable to the price(s) at which the Contractor then offers the exchanged supplies, or parts thereof, for sale to the Government.

March 1974

## TABLE OF CONTENTS

## 1. GENERAL.

1-2. This manual contains Operation and Maintenance Instructions for the
C350B Steel Wheel Roller (figure 1-3 and 1-4). Operating instructions must be carefully reviewed and understood before attempting to operate a unit. The individual assigned to operate the unit should see that it is kept in good condition to ensure prolonged efficiency.

### 1-3. UNIT NAMEPLATE.

1-4. The unit nameplate is located at the front of the operator's compartment as shown in figure 1-4. Make sure the nameplate remains attached to the unit at all times.

**NOTE:** Make sure that nameplate information is complete. If not, contact a Hyster Dealer.

### 1-5. SERIAL NUMBER DATA (see figure 1-4).

**CAUTION**: The COMPLETE serial number must be identified when ordering parts or communicating service information to Hyster Company.

1-6. The unit serial number is located on the unit nameplate. It is also stamped on the left hand side of the gooseneck. The serial number indicates the design series, manufacturing plant, serial number of the unit and year manufactured, Example B89 C 0000 T.

### 1-7. SYSTEM DESIGN SPECIFICATIONS.

1-8. Design specifications for individual systems of the unit are listed: in Section 2. Maintenance Specifications are given in Section 4.

### 1-9. OPERATING INSTRUCTIONS.

1-10. All instructions necessary for safe and efficient operation are given in Section 3.

### 1-11. HYSTER—CARE MAINTENANCE.

1-12. Section 4 Contains the schedule and procedures required for proper maintenance. The schedule lists recommended time intervals between maintenance checks. The procedures provide detailed instructions for performing maintenance checks.

### 1-13. TROUBLESHOOTING.

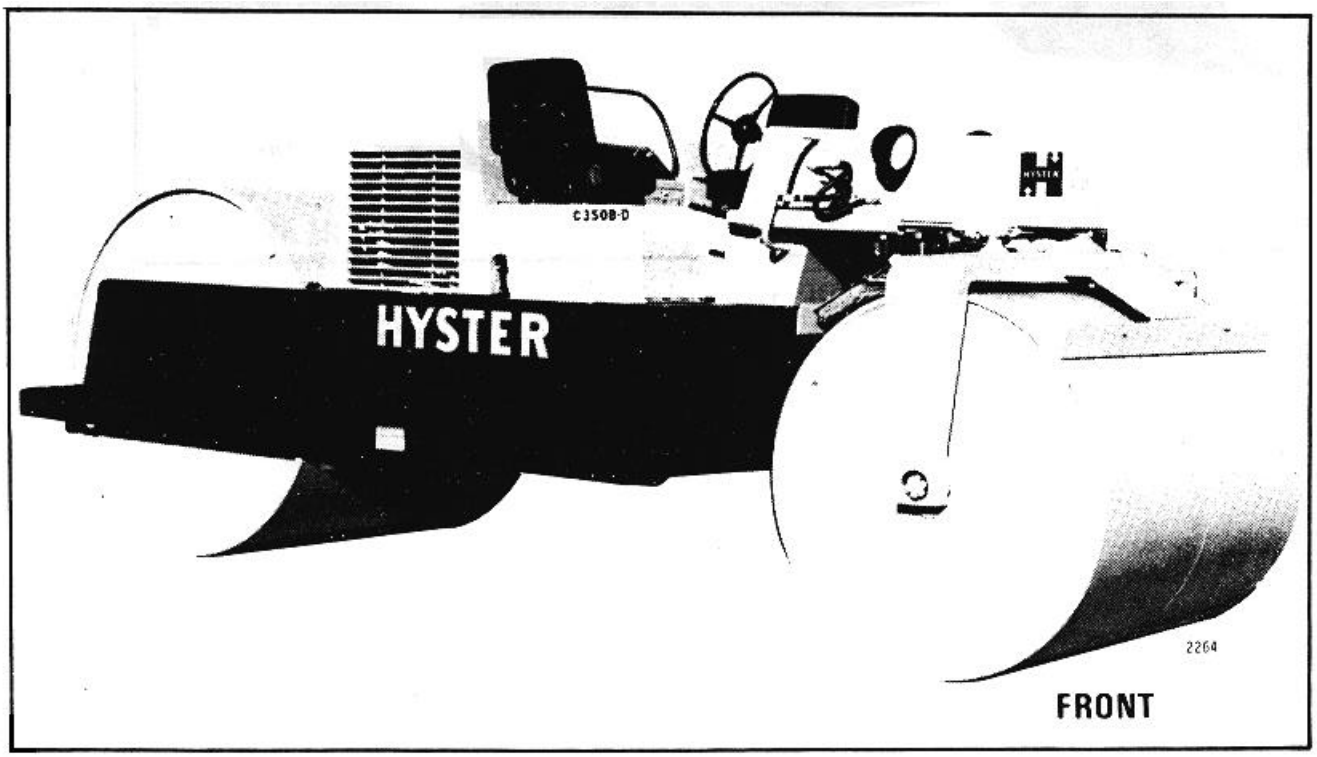


**FIGURE 1-3.**

1-14. Refer to C350B Service Manual or Section 5 of this publication.

**1-15. SYSTEM DESCRIPTIONS AND REPAIRS.**

1-16. Refer to C350B Service Manual.

**1-17. SAFETY PRECAUTIONS.**

1-18. When operating the unit, always observe recommended procedures given on the inside front cover of this manual.

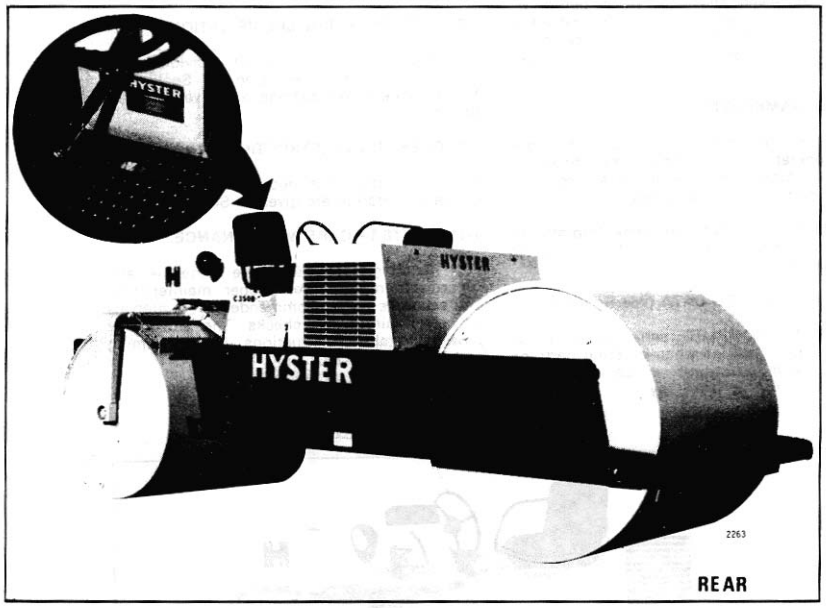


**FIGURE 1-4.**