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)

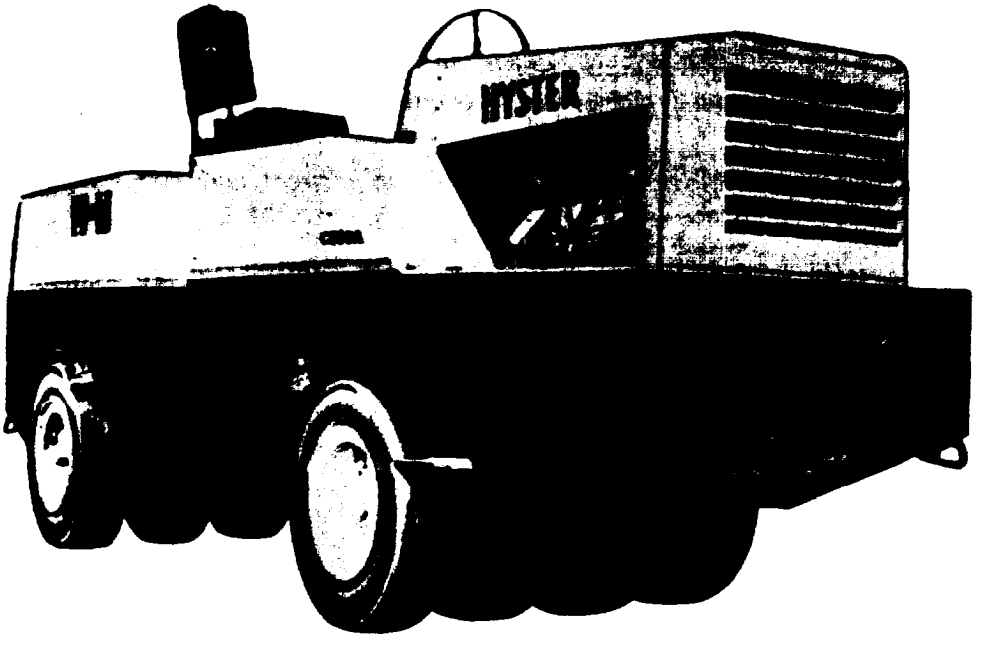
FOR

ROLLER, PNEUMATIC TIRED VARIABLE PRESSURE, SELF-PROPELLED (CCE) HYSTER MODEL C530A

NSN 3895-01-013-3630

HEADQUARTERS, DEPARTMENT OF THE ARMY

7 JANUARY 1983


HYSTER

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REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MB, Warren, MI 48090. A reply will be furnished direct to you.

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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.

OPERATING INSTRUCTIONS
PNEUMATIC COMPACTER

STARTING

1. SET PARK BRAKE, PUT THROTTLE - DIRECTIONAL CONTROL LEVER IN NEUTRAL AND START ENGINE.
2. WARM ENGINE TO 140 F PRIOR TO OPERATING AT FULL LOAD.

OPERATING

1. RELEASE PARK BRAKE.
2. STOP MACHINE, USING BRAKE PEDAL, PRIOR TO CHANGING DIRECTION.
3. STOP MACHINE PRIOR TO CHANGING MANUAL TRANSMISSION SPEED RANGE.
4. USE EMERGENCY ENGINE STOP; IDENTIFIED ON DASH IN RED, ONLY IF ENGINE OVERSPEEDS (DETROIT DIESEL ONLY).

STOPPING

1. PUT THROTTLE CONTROL LEVER IN NEUTRAL.
2. PUT RANGE TRANSMISSION IN NEUTRAL IF ENGINE IS LEFT RUNNING.
3. SET PARK BRAKE.
4. TURN IGNITION SWITCH TO OFF POSITION.

FOR SAFETY

1. **OPERATORS MUST BE TRAINED AND QUALIFIED.**
2. **USE LOWER SPEED AND ADDED CAUTION WHEN OPERATING CLOSE TO FILL EDGE AND WHEN TRAVELING DOWNHILL.**
3. **OPERATE AT RIGHT ANGLES TO FILL EDGE IF IT APPEARS TOO LOOSE TO SUPPORT MACHINE.**
4. **TRAVEL UP AND DOWN THE GRADE WHEN OPERATING ON SLOPES.**
5. **REPORT DAMAGE AND FAULTY OPERATION IMMEDIATELY—DO NOT OPERATE MACHINE UNTIL CORRECTED.**
6. **FOLLOW THE OPERATING INSTRUCTIONS ABOVE AND IN THE OWNERS AND OPERATORS GUIDE, AVAILABLE FROM YOUR HYSTER DEALER.**

PART I

OPERATOR AND SERVICE MANUAL

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OPERATOR AND SERVICE MANUAL

1-1. GENERAL.

1-2. This publication contains operation and maintenance instructions for the C530A Pneumatic compactor (see figure 1-1). The operating instructions must be carefully reviewed and understood before attempting to operate the unit, The individual assigned-to operate the unit should be responsible for maintaining the unit in good condition to ensure prolonged efficiency.

1-3. UNIT NAMEPLATE (see figure 1-2).

1-4. The unit nameplate is located immediately below the instrument panel. The nameplate must remain attached, legible and complete at all times.

1-5. SERIAL NUMBER DATA (see figure 1-2).

NOTE: 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 in the unit frame directly below the nameplate. The serial number indicates the design series, manufacturing plant, serial number and year manufactured. Example: A91C1501 V.

1-7. SYSTEM SPECIFICATIONS.

1-8. Unit specifications for the individual systems are listed in Section 2.

1-9. OPERATING INSTRUCTIONS (see figure 1-2).

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

1-11. HYSTER-CARE MAINTENANCE.

1-12. Hyster-Care maintenance procedures, such as servicing intervals, are presented in Section 4. Always follow the maintenance schedule and recommended procedures to ensure prolonged efficiency and service life.

1-13. TROUBLESHOOTING.

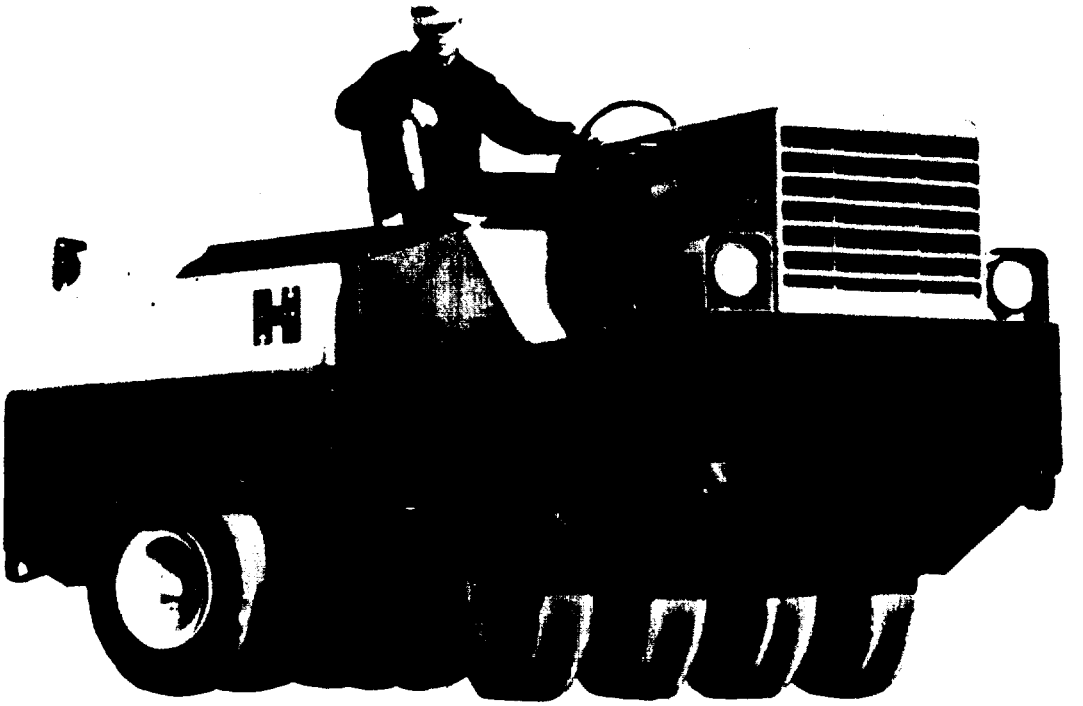
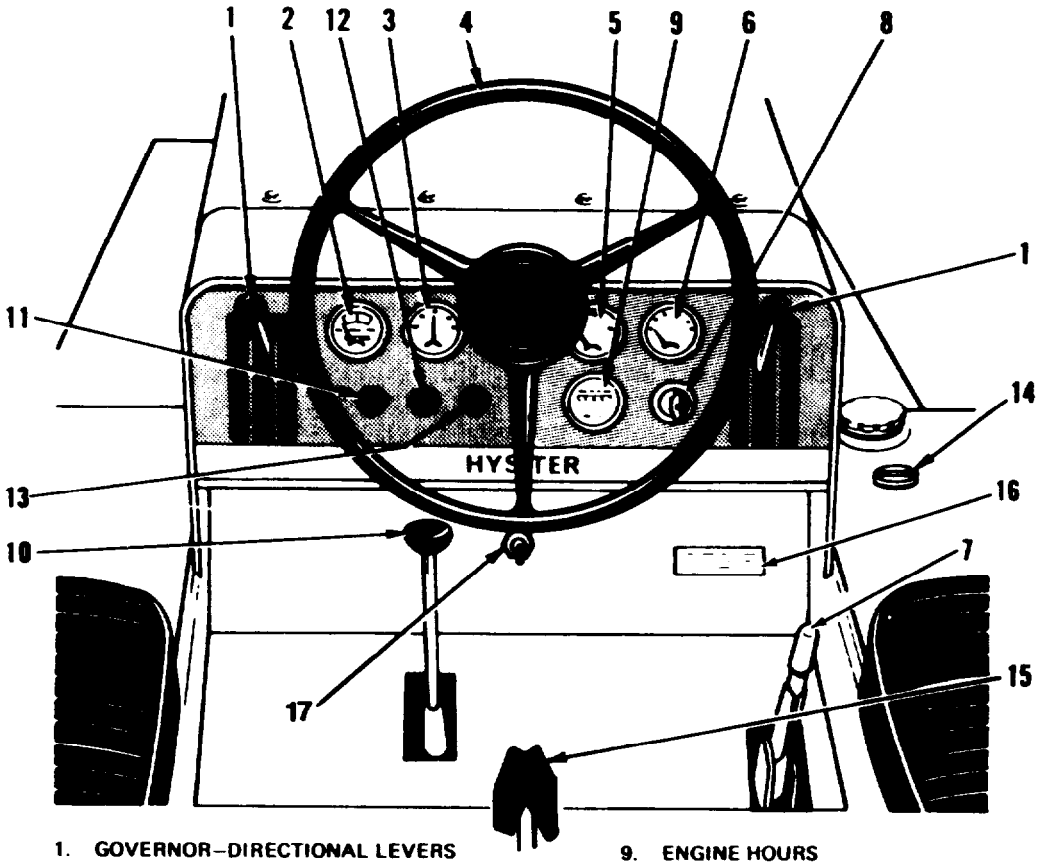


FIGURE 1-1.

1-14. Refer to Section 5 for complete trouble-shooting analysis tables of each major system.

1-15. SYSTEM DESCRIPTIONS AND REPAIRS

1-16. Refer to the C530A Service Manual for complete function descriptions and repair procedures for each major system.



1. GOVERNOR–DIRECTIONAL LEVERS
2. TRANSMISSION OIL TEMP.
3. AMMETER
4. STEERING WHEEL
5. ENGINE WATER TEMP.
6. ENGINE OIL PRESSURE
7. PARKING BRAKE HAND LEVER
8. STARTER SWITCH
9. ENGINE HOURS
10. TRANSMISSION RANGE LEVER
11. HEADLIGHTS (Optional)
12. ENGINE SHUT-OFF
13. EMERGENCY ENGINE SHUT-OFF
14. FUEL GAUGE
15. SERVICE BRAKE
16. UNIT IDENTIFICATION DATA
17. WATER SPRAY SWITCH

FIGURE 1-2 OPERATIONS CONTROLS AND INDICATORS.

2-1. GENERAL.

2-2. This section contains specifications tables for each major system of the compactor. Additional specification tables are included for unit dimensions, weight, performance and torques. The following is a list of specification tables included in this section.

TABLE	TITLE
2-1.	Compactor Dimensions and Weight Specifications
2-2.	Performance Specifications
2-3.	Engine Specifications
2-4.	Fuel System Specifications
2-5.	Electrical System Specifications
2-6.	Transmission and Torque Converter Specifications
2-7.	Final Drive and Transfer Case Specifications
2-8.	Steering System Specifications
2-9.	Brake Assembly Specifications
2- 10.	Water Spray System Specifications
2-11.	Tire Inflation System Specifications
2-12.	Torque Specifications for Standard Hardware

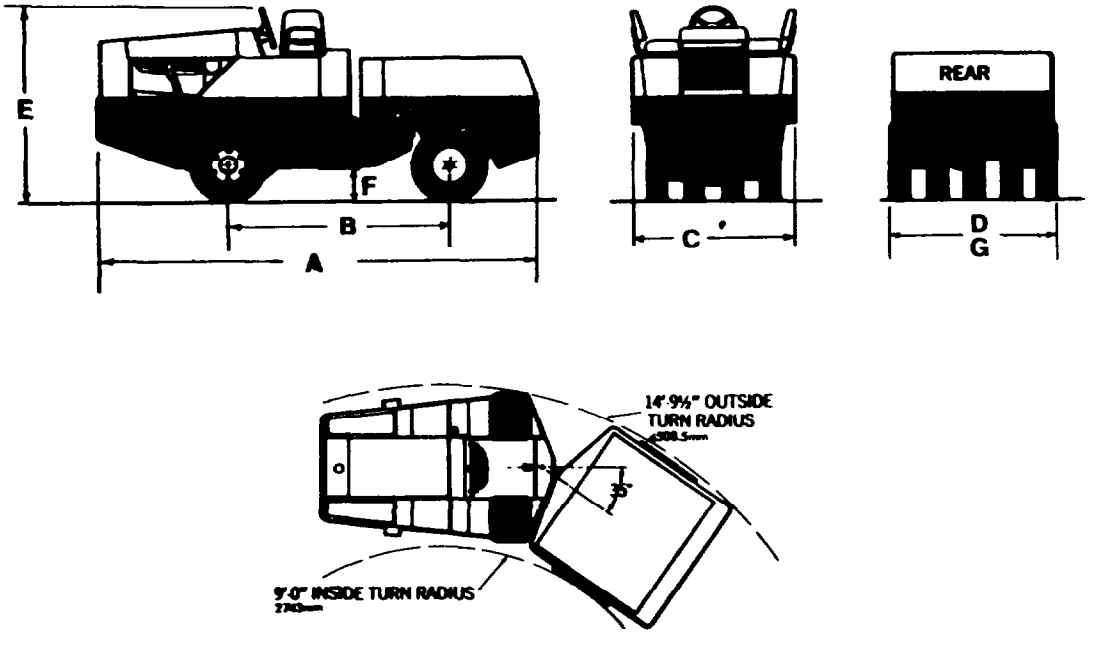


FIGURE 2-1. COMPACTOR DIMENSIONS.