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> Amada CS-220 Corner Shear Installation, Operation, and Maintenance Manual

Amada CS-220

Amada CS-220 Corner Shear Installation, Operation, and Maintenance Manual

Model: CS-220 | Brand: Amada

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Amada CS-220 Corner Shear. Please read this manual thoroughly before operating the machine to ensure proper understanding and to prevent injury or damage.

This document covers the Amada CS-220 model, originally published in August 1979, and contains 18 printed pages of detailed instructions and specifications.

SAFETY INFORMATION

Always prioritize safety. Before performing any installation, operation, or maintenance procedures, ensure you understand all safety warnings and guidelines. Failure to do so can result in serious injury or equipment damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the machine is properly grounded and all electrical connections are secure.
- Never operate the machine with guards removed or bypassed.
- Keep hands and clothing clear of moving parts.
- Disconnect power before performing any maintenance or adjustments.
- Ensure the work area is clean, well-lit, and free of obstructions.

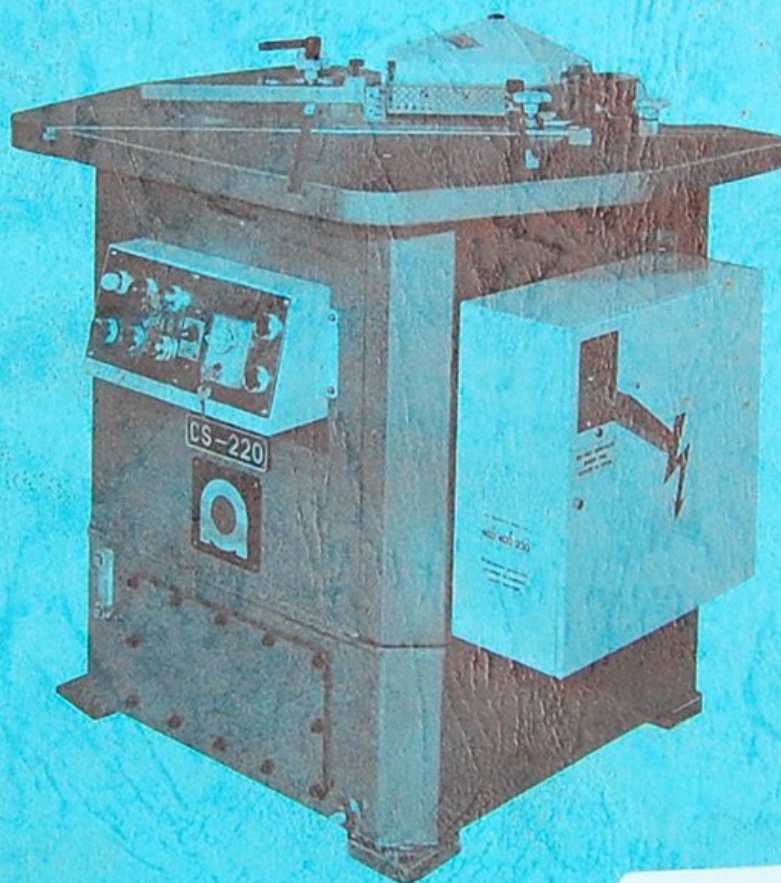
PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of the Amada CS-220 Corner Shear as illustrated below.

AUG. 1979

MODEL CS-220
CORNER SHEAR

operator's manual



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Figure 1: Amada CS-220 Corner Shear - Front and Rear Views. This image displays the Amada CS-220 Corner Shear from both the

front and rear perspectives, highlighting key components. The front view shows the Work Stopper, Table, Ram, Control Panel, Sight Gauge, and Electrical Enclosure. The rear view details the Hydraulic Cylinder. This visual aid helps in identifying the various parts of the machine for installation, operation, and maintenance.

- **Work Stopper:** Used to position the material accurately for shearing.
- **Table:** The primary surface where material is placed for processing.
- **Ram:** The moving component that performs the shearing action.
- **Control Panel:** Contains switches and indicators for operating the machine.
- **Sight Gauge:** Provides a visual indication of fluid levels or other operational parameters.
- **Electrical Enclosure:** Houses the electrical components and wiring, typically with a safety disconnect.
- **Hydraulic Cylinder:** Powers the ram for the shearing operation.

INSTALLATION

Proper installation is crucial for the safe and efficient operation of the Amada CS-220 Corner Shear. Follow these steps carefully:

1. **Unpacking:** Carefully remove the machine from its packaging. Inspect for any shipping damage. Report any damage immediately.
2. **Location:** Place the machine on a level, stable surface capable of supporting its weight. Ensure adequate space around the machine for operation, maintenance, and material handling.
3. **Anchoring:** Securely anchor the machine to the floor using appropriate fasteners to prevent movement during operation.
4. **Electrical Connection:** Connect the machine to a suitable power supply according to local electrical codes and the machine's specifications. Ensure proper grounding. A qualified electrician should perform this step.
5. **Hydraulic Fluid:** Check the hydraulic fluid level and fill if necessary, using the recommended type of hydraulic fluid. Refer to the sight gauge for correct levels.
6. **Initial Inspection:** Before powering on, visually inspect all connections, hoses, and moving parts for proper assembly and absence of obstructions.

SETUP

After installation, perform the following setup procedures before initial operation:

1. **Power On:** Turn on the main power switch located on the electrical enclosure.
2. **Control Panel Check:** Verify that all indicators on the control panel are functioning correctly.
3. **Blade Adjustment:** If necessary, adjust the shear blades according to the material thickness to be processed. Refer to the machine's specific blade adjustment procedures.
4. **Work Stopper Adjustment:** Adjust the work stopper to the desired angle and depth for the corner cut.
5. **Test Run (No Material):** Perform a few cycles without material to ensure smooth operation of the ram and hydraulic system. Listen for unusual noises.

OPERATION

Follow these guidelines for safe and effective operation of the Amada CS-220 Corner Shear:

1. **Material Placement:** Place the material firmly against the work stopper and the table surface. Ensure the material is flat and properly aligned.
2. **Foot Pedal/Button Activation:** Activate the shearing cycle using the foot pedal or control panel button, as

applicable. Keep hands clear of the shearing area.

3. **Shearing Cycle:** The ram will descend, perform the cut, and retract. Wait for the ram to fully retract before removing the sheared material.
4. **Material Removal:** Carefully remove the cut material and any scrap pieces.
5. **Repeat:** Repeat the process for subsequent cuts, ensuring consistent material placement.

Note: Always refer to specific job requirements and material specifications for optimal machine settings.

MAINTENANCE

Regular maintenance is essential to ensure the longevity and optimal performance of your Amada CS-220 Corner Shear.

Always disconnect power before performing any maintenance.

- **Daily:**
 - Clean the work table and surrounding area of debris and metal shavings.
 - Inspect blades for damage or dullness.
- **Weekly:**
 - Check hydraulic fluid level using the sight gauge. Top up if necessary.
 - Lubricate all moving parts as specified in the lubrication chart (if available).
 - Inspect all hoses and connections for leaks or wear.
- **Monthly/Quarterly:**
 - Inspect electrical connections for tightness and signs of corrosion.
 - Check and adjust blade clearance if required.
 - Inspect safety guards and interlocks for proper function.
- **Annual:**
 - Replace hydraulic fluid and filters.
 - Have a qualified technician perform a comprehensive inspection and service.

TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; Emergency Stop engaged; Blown fuse/tripped breaker.	Check power connection; Release E-Stop; Check and reset breaker/replace fuse.
Ram does not move.	Low hydraulic fluid; Hydraulic pump issue; Control panel fault.	Check hydraulic fluid level; Inspect pump; Consult service manual or technician.
Poor cut quality.	Dull blades; Incorrect blade clearance; Material not properly secured.	Sharpen or replace blades; Adjust blade clearance; Ensure material is firm against stoppers.
Excessive noise during operation.	Low hydraulic fluid; Loose components; Worn bearings.	Check fluid level; Tighten fasteners; Contact service technician.

SPECIFICATIONS

Key specifications for the Amada CS-220 Corner Shear:

- **Model:** CS-220
- **Manufacturer:** Amada
- **Manual Publication Date:** January 1, 1979 (August 1979 for this specific manual)
- **Manual Print Length:** 18 pages
- **Language:** English
- **ASIN:** B00CCGEA6K
- *Note: Specific operational capacities (e.g., material thickness, cutting angle) are detailed within the full 18-page manual.*

WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please refer to the original purchase documentation or contact your authorized Amada dealer. Always provide the model number (CS-220) when seeking support.