# AL 106

**SN 11256 and Before**

# AL 206

**SN 21243 and Before**

# AL 306

**SN 31364 and Before**

# Articulated Loaders

# Operator's Manual

**#918443/AP0210**

**(Supersedes 918271)**

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# Mustang AL106, AL206 and AL306 Articulated Loader Operator Manual

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## Main contents

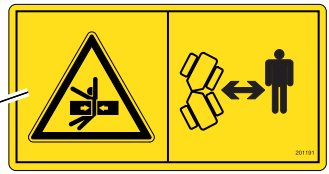
- General Information
- Safety
- Specifications
- Operation
- Maintenance
- Troubleshooting

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- Mustang loaders are designed and intended to be used only with Mustang attachments and approved attachments. To avoid possible personal injury, equipment damage and performance problems, use only attachments that are approved for use on and within the operating capacity of the machine. Contact your dealer or Mustang Manufacturing for information on attachment approval and compatibility with specific machine models. Mustang Manufacturing cannot be responsible if the machine is used with a non-approved attachment.
- Remove all trash and debris from the machine every day, especially in the engine compartment, to minimize the risk of fire.
- Be sure that any connected attachment is shifted to neutral or off before starting machine.
- Always face the machine and use the hand holds and steps when entering and exiting the machine. Do not jump off the machine.
  See “Entering and Exiting” on page 50.
- Do not use starting fluid (ether).
- Walk around the machine and inspect it before using it. Look for damage, loose or missing parts, leaks, etc.
- Warn all nearby personnel before starting the machine.
- Check for proper tire pressure in all four tires before operating the machine and add air if necessary. Improperly pressurized tires adversely affect machine stability. Regularly check wheel fasteners for tightness. See “Maintenance Schedule” on page 72.
- Contact the proper local authorities for utility line locations BEFORE starting to dig. In North America, contact the North American One-Call Referral System at 8-1-1 in the U.S., or 1-888-258-0808 in the U.S. and Canada.
- Before working near power lines (either above-ground or buried cable-type), always contact the power utility and establish a safety plan with them.
- If temperatures are changing, be cautious of dark and wet patches when working or traveling over frozen ground. Stay away from ditches, overhangs and other weak support surfaces.
- The operator’s area, steps and hand holds must be free of oil, dirt, ice and unsecured objects.
- If a lighting system is installed, check its operation before working in darkness.
- If the machine is equipped with a cab, always keep the windshield and windows clean. Poor visibility can cause accidents.
- Use warning tag/control lockout procedures during service. Alert others that service or maintenance is being performed by tagging operator’s controls — and other machine areas if required — with a warning notice.
- NEVER start the engine if there is any indication that maintenance or service work is in progress, or if a warning tag is attached to the controls.
- Replace damaged safety decals and lost or damaged operator’s manuals.

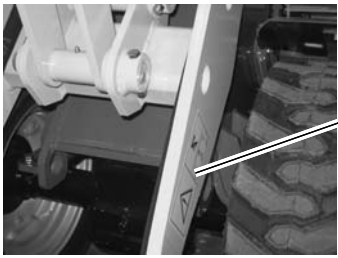
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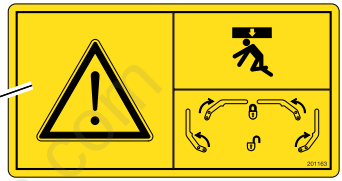




**201191 – Crush Hazard: Keep away from articulation joint unless steering/frame lock bar is in locked position. See “Loading and Transporting” on page 67.**

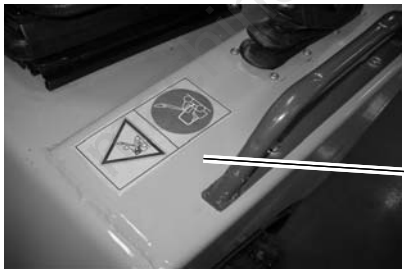
**Figure 12 – Crush Hazard Warning Decals (both sides)**





**201163 – Attachment Bracket Warning, located on lift arm (both sides). Crush Hazard: Before operating attachment, check for proper engagement of hitch locking pin to attachment.**

**Figure 13 – Attachment Bracket Warning Decal (both sides)**



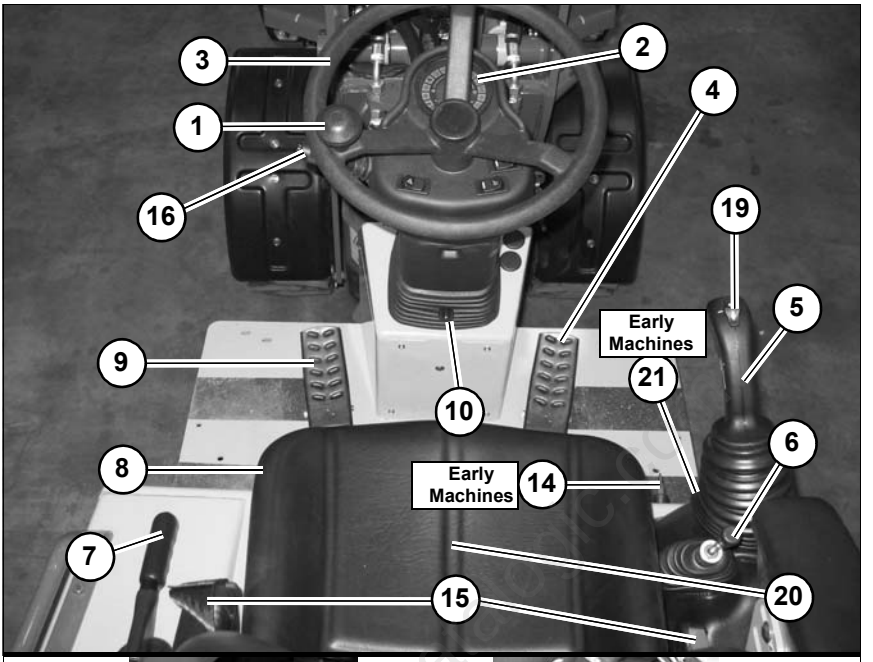


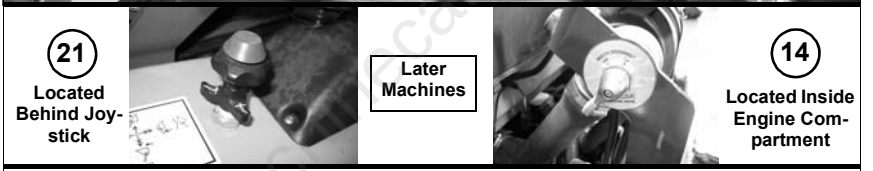
**274028 – Warning: Falling Object**
**The machine must be equipped with a Falling-Object Protective Structure (FOPS) when the machine is intended for applications where there is a risk of falling objects.**

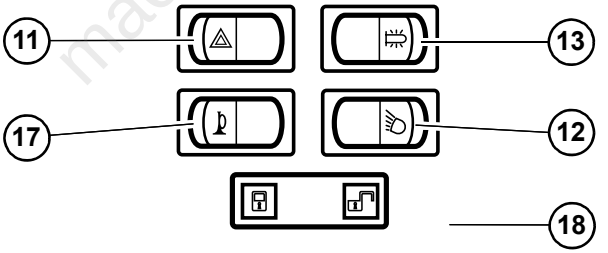
**Figure 14 – FOPS Decal (left side under parking brake lever)**

# Operating Controls

## Controls and Switches




***Note:*** *Controls 11, 12, 13, 17, and 18 are located on the steering column, below instrument panel 2.*

| No. | Item | Description |
|---|---|---|
| 1. | Turning knob | Use to turn steering wheel. See *Steering wheel*. |
| 2. | Instrument panel | Contains warning indicators, operation indicators, and gauges (page 40). |

## Load Handling

**WARNING** **Position the load as low as possible, especially while traveling. Never make turns with the load raised higher than the axles or tipping could occur, resulting in severe injury or death.**

**Do not exceed the rated capacity of the machine. See “Weights” on page 31.**

**If the machine becomes unstable and starts to tip, keep the seat belt fastened, hold on firmly and brace yourself. Lean away from the point of impact and stay with the machine. If tipping occurs, DO NOT jump from the machine. The machine is equipped with rollover protection, which only protects the operator while in the operator’s seat. Trying to escape from a tipping machine can result in death or serious personal injury.**

**If a tipover occurs:**

- **Restore the loader to an upright position immediately to prevent oil and fuel leakage. Clean up any fluid leakage.**
- **Inspect and repair any damage before re-starting the engine.**

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***Note:*** *Avoid extreme tire slipping.*

4. Reduce the tipping angle.
5. While driving forward, operate the joystick to lower and raise the bucket, and to constantly load the front axle.

## Towing and Retrieval

**⚠ WARNING** **Do not use the loader for towing (other vehicles, trailers, equipment, etc.).**

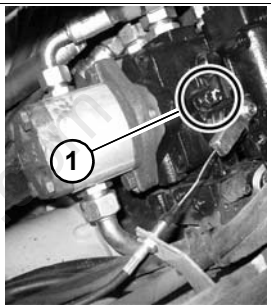
### *Precautions*

Only tow the loader if the steering and brakes are functional, if it cannot be repaired on-site, and if it cannot be transported using any other method. Only tow the loader until it is moved to a location where it can be safely repaired.

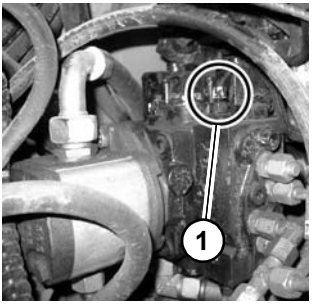
***Important:*** *If moving the loader more than a few hundred meters, use a flatbed truck or similar vehicle to transport the loader, to prevent overheating the hydraulic system. See "Loading and Transporting" on page 67.*

### *Preparation*

1. Perform the "Mandatory Safety Shutdown Procedure" on page 8.
2. Tilt up the operator's platform. See "Tilting the Cab Up" on page 75.
3. Loosen the bypass valve (*Figure 59*) one-to-two turns.




**AL100 Series Bypass Valve**




**AL200 and AL300 Series Bypass Valve (Earlier Machines)**

**Figure 59 – Hydraulic Pump Bypass Valve**

**⚠ CAUTION** **Do not loosen the bypass valve more than one-to-two turns. The bypass valve can come out of the pump, resulting in a rapid loss of hydraulic fluid.**

4. Tilt and secure the operator's platform back into the operating position. See "Tilting the Cab Down" on page 76.

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## Dealer Service

The following service items require special tools and knowledge and should be performed by your authorized dealer:

- Hydrostatic components
- Hydraulic system gear pump
- Valves
- Cylinders
- Electrical components other than battery and circuit breakers

## Tilting the Platform

**⚠ WARNING Always close the cab doors (if applicable) and open the engine cover before tilting the cab. Stay clear from underneath the cab as it is tilted. Always secure the tilt support when cab is tilted.**

### Tilting the Cab Up

1. Complete "Mandatory Safety Shutdown Procedure" on page 8.
2. Open engine cover (4, *Figure 67*).

***Note:*** *AL200 and AL300 Series loader platforms cannot be raised or lowered with the engine cover closed.*

3. Remove cab lock-down nuts, bolts and washers from the left front (1), right front (5) (AL100 Series only), and left rear (3) of the loader platform (2). See *Figure 68* and *Figure 69*.
4. Securely close the cab doors (if applicable).
5. Using ROPS bar, cab frame, and/or handles, manually tilt loader platform upward.

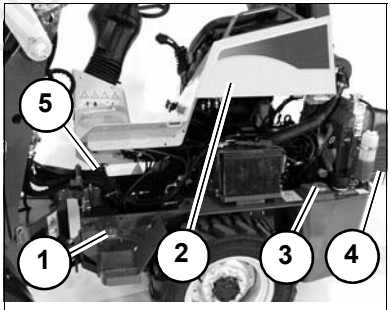



**Figure 67 – Tilted Platform (AL100 Series shown)**

1. Loader Platform, Front Mounting
2. Loader Platform
3. Loader Platform, Rear Mounting
4. Engine Cover
5. Loader Platform, Front Mounting, Right (AL100 Series only)

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## Tires

**⚠ WARNING Inflating or servicing tires can be dangerous. When possible, trained personnel should service and mount tires. To avoid possible death or serious injury, follow the safety precautions below.**

To keep tire wear even, rotate the tires from front to rear and rear to front.

***Important:*** *Keep the same size tire on each side of the loader to prevent excessive wear on tires. The tread bar of all tires should face the same direction.*

- Be sure the rim is clean and free of rust. Lubricate the tire beads and rim flanges with a soap solution. Do NOT use oil or grease.
- Use a clip-on tire chuck with remote hose and gauge, allowing you to stand clear while inflating the tire.
- Never inflate beyond 35 psi (2.4 bar) to seat the beads. If the beads have not seated by the time the pressure reaches 35 psi (2.4 bar), deflate the assembly, reposition the tire on the rim, lubricate both parts and re-inflate. Inflation pressure beyond 35 psi (2.4 bar) with unseated beads may break the bead or rim with explosive force sufficient to cause death or serious injury.
- After seating the beads, adjust the inflation pressure to the recommended operating pressure.
- Do not weld, braze or otherwise attempt to repair and use a damaged rim.

### *Checking Tire Pressure*

Correct tire pressure should be maintained for all tires to enhance operating stability and extend tire life. See “Wheel/Tire Sets” on page 33 for proper inflation pressures.

***Note:*** *See tire sidewall for inflation pressures.*

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