

The HUM-V Assist Drive System

- INSTALLATION
- OPERATION
- MAINTENANCE

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Safety :

- Do not operate this equipment until you have read this manual and fully understand the machine's operation.
- Never operate the HUM-V with a broken or damaged chain.
- Never operate the HUM-V without the chain guard and skid plate installed.
- Never place your hands, arms or any body parts near the chain engagement with the clutch, jack-shaft, or wheel sprocket while the drive is in motion. The chain and sprockets can cause severe and permanent injuries to body parts.
- Never attempt any maintenance while the motor is rotating.
- Prior to any maintenance, turn the circuit breaker to the off position and remove the positive lead from the battery. This will eliminate the possibility of accidental motor engagement.
- Never touch the positive and negative leads of the battery. This is a 12 volt Direct Current negative ground system.
- Exercise caution when moving your vacuum up and down ramps. This machine weighs in excess of 350 lbs. and can cause injury if moved improperly.
- The HUM-V engages at approximately 800 motor RPM, the operator should be ready to move with the vacuum as it engages.
- Do Not transport the vacuum without properly securing the vacuum in your vehicle, and turning the circuit breaker to the off position.
- Do Not continue to operate a HUM-V that has any damaged mechanical or electrical parts.

The HUM-V Assist Drive System is Compatible with:

The General Air Duct Cleaning Vacuum/Collector (GEN200)

The Ranger Air Duct Cleaning Vacuum/Collector (GEN401)

The Major Insulation Removal Vacuum (GJR600)

Installation :

If you order your HUM-V with new equipment, the factory has completed the installation process.

NOTE: All warranty repairs must go through Meyer Machine & Equipment prior to any service work being done. Work not authorized by Meyer Machine & Equipment will not be covered under warranty.

Maintenance :

Your **HUM-V Assist Drive System**, as well as the rest of your equipment, will last for many years if you properly maintain the equipment.

The **HUM-V** requires the following regular maintenance procedures:

NOTE: ALWAYS FOLLOW THE SAFETY GUIDELINES AS OUTLINED ON PAGE 1 OF THIS MANUAL.

- I. Every 100 machine hours, the chain should be greased with an all-purpose lithium based lubricant. Turn the circuit breaker to the off position, then remove the positive lead from the battery. Remove the chain guard, by removing the 4 screws with an extended nut-driver or 7/16" socket and extension. Using a lint-free rag or swab, apply a thin layer of grease to the interior of both chains, using the drive wheel to rotate as necessary. Take caution to make sure all fingers, clothing and loose articles are not engaged with the chains or sprockets when the wheel is rotated, as this will result in severe and permanent injury to body parts.
- II. Every 100 machine hours, all mounting and closure hardware on the HUM-V Assist Drive System should be checked for tightness. Use hand tools such as wrenches and drivers to bring all hardware to 'wrench-tight'.

Operation :

Prior to operating your **HUM-V Assist Drive System**, there are a few necessary points that must be checked.

- The engine on the equipment is turned off
- The wheel brakes are disengaged
- The dust collection system / containment bag is removed

NOTE: Excessive use of the HUM-V Assist Drive System may result in weakening the battery that is used to start the engine on the equipment. For repositioning usage that is greater than 500 feet, it is recommended to have a 12-volt portable starting system available.

Once you have checked the items above, you are ready to proceed with operation of the HUM-V Assist Drive System.

Begin by turning on the circuit breaker on the motor mount. Start pushing or pulling the equipment in the desired direction of travel. When the swivel caster wheels are parallel with the direction of travel, engage the HUM-V toggle switch for the desire direction (Forward or Reverse).

The HUM-V Assist Drive System is designed to move your equipment approximately 3 MPH in the direction of travel. This pace is achieved quickly through rapid acceleration, but after 2 seconds provides for a comfortable walking pace. With the assistance of an operator, the HUM-V Assist Drive System will reduce the load making it easier to move the equipment up inclines of up to 15 degrees.

The HUM-V Assist Drive System is a **NORMALLY NEUTRAL** system. Unless engaged with the toggle switch, the drive wheel should freely turn both forward and reverse. Any time the HUM-V Assist Drive System is not being used, the circuit breaker on the motor mount should be in the OFF position.

The HUM-V Assist Drive System and the equipment it is installed on are heavy duty industrial items. Proper care and usage of these items are required for consistent, reliable, and continued usage. Ground clearance of your equipment is reduced with the HUM-V Assist Drive System, and extra care should be taken to ensure that components installed on the undercarriage of your equipment are not damaged. The drive wheel axle is aligned in 2-dimensions to ensure proper chain engagement. Excessive force on the drive wheel axle can cause bending and misalignment. Sudden drops of more than 2" vertical should be avoided to maintain proper chain/sprocket alignment.