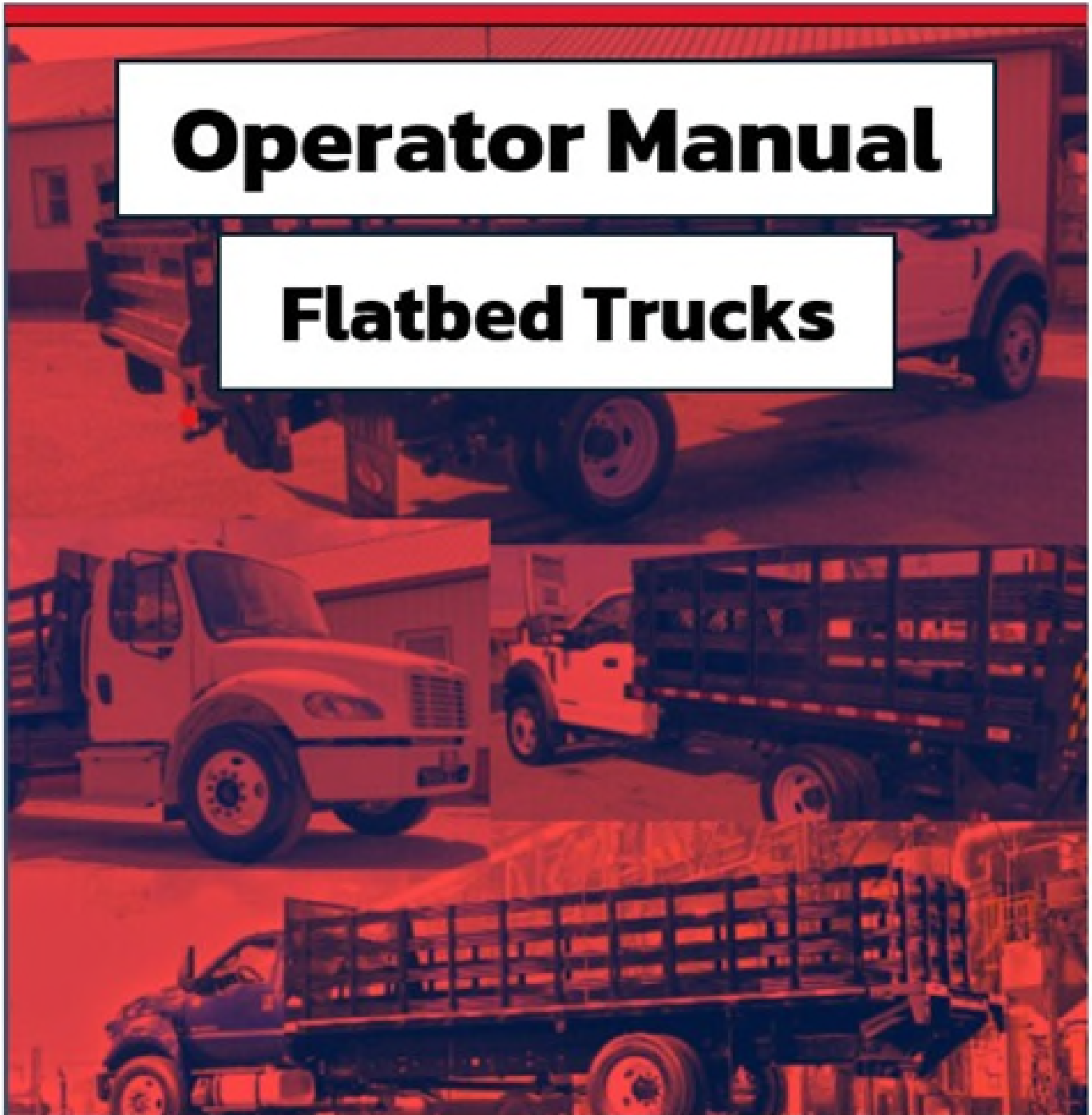




Operator Manual

Flatbed Trucks



Curry Supply Co., 1477 Degol Industrial Drive, Hollidaysburg, PA 16648

YOUR JOBS. OUR TRUCKS.



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SECTION 1

Introduction & Safety Messages

CONTACT US

Curry Supply Company

1477 Degol Industrial Drive, Hollidaysburg, PA 16648

service@currysupply.com CurrySupply.com

Parts 800.567.5127

Warranty Service 800.345.2829

MANUAL USAGE

This Operators Manual contains information to safely operate more than one configuration of "Curry Supply Company Flat Bed Truck". The parts shown may not reflect the exact configuration on your truck. "Custom" style trucks may have parts not listed. If your system is not covered in this manual, please contact Curry Supply Company Support at 800.345.2829 or service@currysupply.com.

All personnel working on or operating the machine must become familiar with the following safety messages.

Due to the nature of these processes, ensure that all safety information, warnings, and instructions are read and understood before any operation or maintenance procedures are performed.

This manual does not supersede any local, state, or federal laws.

SAFETY MESSAGES

The following definitions are found throughout this manual and apply as follows:

WARNING

OPERATING PROCEDURES AND TECHNIQUES COULD RESULT IN PERSONAL INJURY OR LOSS OF LIFE IF NOT FOLLOWED CORRECTLY.

CAUTION

OPERATING PROCEDURES AND TECHNIQUES WHICH COULD RESULT IN DAMAGE TO EQUIPMENT IF NOT FOLLOWED CORRECTLY.

NOTE

OPERATING PROCEDURES AND TECHNIQUES THAT ARE CONSIDERED ESSENTIAL TO EMPHASIZE.

WARNING

IMPROPER USE OF EQUIPMENT
COULD CAUSE SERIOUS INJURY OR
DEATH. PLEASE READ AND
UNDERSTAND ALL INSTRUCTIONS.



WARNING

WHEN OPERATING OR WORKING
ON THE UNIT, KEEP HANDS AND
BODY PARTS CLEAR OF PINCH
POINTS.



WARNING

CONTACT WITH LIVE
ELECTRICAL CIRCUITS COULD
DAMAGE EQUIPMENT OR CAUSE
INJURY.



WARNING

MOVING PARTS CAN CRUSH
AND CUT. KEEP HANDS, FEET,
HAIR, AND LOOSE CLOTHING
AWAY FROM MOVING PARTS.



CAUTION

ADVERSE WEATHER CONDITIONS
CAN CAUSE EQUIPMENT DAMAGE.
WHENEVER POSSIBLE, PERFORM
MAINTENANCE INDOORS.



WARNING

ALWAYS WEAR THE PROPER PPE
WHILE OPERATING THE UNIT.



WARNING

DO NOT OPERATE THE UNIT WHILE
INTOXICATED OR EXTREMELY
EXHAUSTED.



WARNING

DO NOT WALK ON TOP OF THE
VEHICLE. FALLING FROM
VEHICLE CAN RESULT IN
SERIOUS INJURY.



WARNING

THE VEHICLE IS EQUIPPED WITH A
BACK-UP ALARM. ALARM MUST
SOUND WHEN OPERATING THIS
VEHICLE IN REVERSE.



WARNING

ALWAYS WEAR YOUR SAFETY
BELT WHILE DRIVING THE VEHICLE.
IF VEHICLE TIPS, STAY BUCKLED
AND INSIDE OF CAB AREA.



WARNING

ALL PROTECTIVE COVERS AND
GUARDS MUST REMAIN IN PLACE.



CAUTION

NEVER USE EQUIPMENT IF IT MAKES
UNUSUAL NOISES, HAS VIBRATIONS,
OR FAILS TO OPERATE FREELY.



WARNING

DO NOT RIDE OR PERMIT ANYONE TO RIDE ON LIFT. THE LIFT IS NOT A PERSONNEL OR WHEELCHAIR LIFT.

**CAUTION**

DO NOT MOVE VEHICLE UNLESS GATE IS IN LATCHED/STOWED POSITION.

**CAUTION**

DO NOT MAKE ANY MODIFICATIONS TO THE LIFT OR ITS SAFETY FEATURES.

**NOTE**

ALL REPAIRS OF LIFTS AND GATES SHOULD BE DONE BY AN AUTHORIZED DISTRIBUTOR WHO KNOWS HOW THEY WORK AND HOW TO KEEP THEM SAFE. ANY REPLACEMENT PARTS MUST BE OF ORIGINAL QUALITY, AND ALL SAFETY AND OPERATION LABELS MUST BE ATTACHED AND EASY TO READ.

CAUTION

BEFORE USING THE LIFTGATE, PLEASE OBSERVE THE VEHICLE LOADING LIMITATIONS. THESE LOADING LIMITATIONS ARE OUTLINED IN THE VEHICLE OWNER'S MANUAL AND THE SAFETY COMPLIANCE CERTIFICATION LABEL LOCATED ON THE DRIVER'S DOOR PILLAR.



SECTION 2

System Descriptions

SIDE VIEW OF TRUCK



Curry Supply Company builds and distributes flatbed trucks with different styles of rear hydraulic lift gates (Tommy & Thieman). Please refer to the manufacturer owner's manual for detailed lift information. The following links may be used to access these manuals.

<https://www.tommygate.com/media/qj5antso/009120-29-g2-series-owners-manual.pdf>

<https://www.thiemantailgates.com/pdfs/stowaway-liftgates/M-OM.pdf>

REAR VIEW OF TRUCKS

Conventional Tommy Gate



Stow-Away Thieman Gate



Conventional Thieman Gate



Tommy Gate

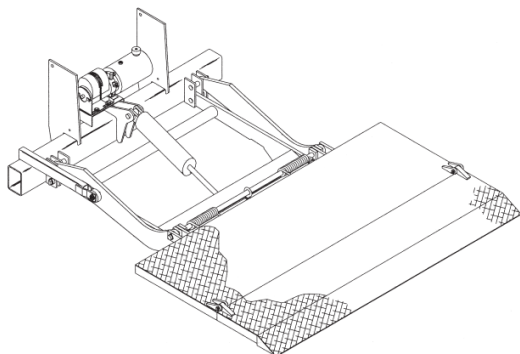


The lift is mounted at the back of the vehicle and can be used to raise products from the ground to the truck bed. There are seven different models available. The most common model for Curry Supply Company Flatbed trucks is Model 9479. It runs on a hydraulic pump that connects to the truck's battery for power.

Maximum Lift Capacity				
Model	Capacity		Model	Capacity
15885	700lbs		9481	1500lbs
9453	750lbs		9479	1600lbs
9477	1000lbs		9480	2000lbs
9478	1300lbs			

CAUTION	
NEVER EXCEED THE WEIGHT CAPACITY OF THE LIFT.	

Thieman Tailgate



The lift is mounted at the back of the vehicle and can be used to raise products from the ground to the truck bed. There are four different models available. Most Curry Supply Company Flatbed trucks are outfitted with the Tommy gate. If you have a Thieman gate, it most likely is Model M16. It runs on a hydraulic pump that connects to the truck's battery for power.

Maximum Lift Capacity				
Model	Capacity		Model	Capacity
M16	1600lbs		M25	2500lbs
M20	2000lbs		M30	3000lbs

CAUTION	
NEVER EXCEED THE WEIGHT CAPACITY OF THE LIFT.	

Side Stake Gate



The side stake gates are located on each side of the truck bed. They help keep cargo from falling out. Each gate can be removed to make loading and unloading easier. The number of stakes used on the truck depends on the size of the truck bed. Different trucks have different sizes of stakes with specific installation locations (see chart in section 3).

SECTION 3

Normal Operation

This section gives the driver step-by-step instructions for using the installed systems. A quick reference card will be provided and kept in the cab.

Before using the vehicle, please do a walk-around inspection. Make sure to check for any broken or missing parts.

WARNING

ALWAYS CHOCK WHEELS
IMMEDIATELY UPON EXITING
THE VEHICLE.



WARNING

THE REAR LIFT GATE WILL OPERATE AT THE
SAME INCLINE OF THE TRUCK. IF THE TRUCK IS
PARKED ON AN INCLINE AND CARGO IS LIFTED
USING THE REAR LIFT GATE, THE CARGO MAY
HAVE A TENDENCY TO SLIDE OR TOPPLE.

Tommy Gate Operation

1. On the driver's side of the vehicle, take out the pin, then pull and swing the gate latch arm away from where it's stored.



2. Go to the passenger side of the vehicle & remove the pin (padlock if equipped).



3. Use one hand to hold the gate while using the other to pull the latch arm away from the gate. Guide and swing the gate downward until it stops.



4. Staying on the passenger side of the vehicle, turn on the control panel by pressing the power button. The amber light will turn on.



5. Activate the lift gate by pressing the hidden switch twice within one second. The red light will turn on.



6. To lower the platform, toggle down. To raise, toggle up.



NOTE

THE PLATFORM IS LOWERED USING ITS OWN WEIGHT (GRAVITY DOWN). IT WILL STOP WHEN RESTING ON ANY SURFACE ABLE TO SUPPORT ITS WEIGHT.

NOTE

THE CONTROL PANEL DEACTIVATES AFTER 90 SECONDS OF NON-USE. TO REACTIVATE, DOUBLE PRESS THE HIDDEN SWITCH TWICE WITHIN ONE SECOND.

7. To stow, fold the platform up by hand until the passenger side latch arm is engaged. Insert the pin (insert the padlock if equipped).



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8. Press the power button on the control panel once to power down the system. The amber light will go out.



9. Go to the driver's side of the vehicle and move the latch arm until it connects with the platform. Then, insert the pin.



NOTE

THE PLATFORM MAY BE CONFIGURED TO DROP AWAY. PLEASE REFER TO THE TOMMY GATE OWNER/OPERATOR MANUAL TO MAKE THESE ADJUSTMENTS.

NOTE

CURRY SUPPLY COMPANY DOES NOT OFFER THIS GATE CONFIGURABLE TO A DUMP BODY TAILGATE.

Thieman Gate Operation

CAUTION

TO AVOID OVERHEATING THE MOTOR, DO NOT OPERATE THE LIFTGATE FOR MORE THAN 8 CYCLES/10 MINUTES WITH THE MAXIMUM LOAD. THE MOTOR THEN MUST BE ALLOWED TO COMPLETELY COOL DOWN TO THE AMBIENT TEMPERATURE BEFORE CYCLING AGAIN. THIS UNIT ALSO HAS A 15% DUTY CYCLE, WHICH MEANS THE LIFTGATE CAN BE CYCLED NO MORE THAN 3 CYCLES/10 MINUTES CONSTANTLY WITH A MAXIMUM LOAD.

1. Raise platform by pushing the up switch until the stow pin on the platform is disengaged from the spacer latch.
2. Move the spacer handle counterclockwise to disengage the spacer latch and hold.
3. Lower the platform by pushing the down switch until the lift arms contact the ground.
4. Grasp the platform handle on the passenger side and rotate outward to a horizontal position.
5. Push the up switch to raise the platform to bed height.
6. To stow the platform, lower the platform to the ground.
7. Fold over the extension & grasp the platform handle to raise manually to the vertical position.
8. Push the up switch to raise until the stow pin and spacer latch have engaged.

NOTE

THE PLATFORM IS LOWERED USING ITS OWN WEIGHT (GRAVITY DOWN). IT WILL STOP WHEN RESTING ON ANY SURFACE ABLE TO SUPPORT ITS WEIGHT.

Side Stake Operation

Each side stake has two latches at the top and one at the bottom.



1. Rotate the top left latch up and out.



2. Rotate the top right latch up and out.



3. Push the bottom latch in while lifting the gate.



An alternate latch at the bottom of the gate is shown below. Push this latch in while lifting the gate.



4. Reinstall in reverse order.

14, 16 & 18 Foot Trucks

6 total gates. The driver side front gate (closest to the cab) is interchangeable with the passenger side gate. All other gates have specific locations.

20 Foot Truck

8 total gates. The driver side front gate (closest to the cab) is interchangeable with the passenger side front gate. All other gates have specific locations.

22 Foot Truck

8 total gates. The driver side gates are interchangeable with the passenger side gates (can NOT be criss-crossed) except for the rear two gates. These are NOT interchangeable.

SECTION 4

Maintenance & Lubrication

Due to numerous jobs and purposes, varying environments and climates, and importance to safety, routine maintenance is highly recommended. Regular maintenance keeps the trucks functioning correctly and at optimum efficiency. The following tasks can help prevent breakdown and keep the truck on the job when you need it most.

NOTE

FOR THE MOST ACCURATE MAINTENANCE FOR A SPECIFIC CHASSIS SYSTEM, REFER TO THE PRODUCT SPECIFIC USER MANUAL

DAILY SAFETY MAINTENANCE

Tires – Check for proper inflation and tread depth.

Brake System – Routine inspections on brake pads and calipers for safe operation.

Lights – Check all lights are working and functioning correctly.

Fluids – Check engine oil, coolant, hydraulic fluid, and wiper fluid are at proper levels.

Hoses – Check for leaks, cracks, and that they are fully secure.

TOMMY GATE

Service every 120 days or 1500-2000 cycles, whichever comes first.

1. Inspect platform and chains for wear.
Replace immediately if wear is detected.

2. With the platform at the bottom of its travel & the cylinders completely extended, check the oil level in the reservoir. The fluid should be two-thirds full.



Remove these three 5/16" nuts to remove panel to access the hydraulic fluid reservoir.

3. Check for leaks from the cylinders, hoses, and all fittings. Replace or repair if leaking.
4. Grease all cylinder pivots. Do NOT grease composite bushings.
5. Replace any worn or missing parts.
6. Adjust platform latches, if needed to keep the platform in the properly stored position.
7. Check for cracks in all welds. Repair if needed.
8. Check for wear at all pivot points.
9. Check all electrical connections for dirty, loose or bare wires. Clean or repair if needed.
10. Inspect safety decals. Clean or replace when needed.
11. Check for proper operation. Adjust, repair or replace malfunctioning parts.

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THIEMAN GATE

Service at the scheduled intervals outlined below and anytime the liftgate shows signs of abuse, and improper or abnormal operation.

Operate the liftgate throughout its entire operational cycle prior to inspection.

Every 50 cycles

1. Grease the kicker roller assembly with #0 (-40 to 120°F) or #1 (-20 to 200°F) grease.
2. Oil the control handle pivots and platform extension pivots with SAE 10 or 20 oil.

Monthly

1. Check that there are no unusual noises or vibrations.
2. Raise the lift until it stops and see if it is at the height of the truck bed. If not, use a 13/16" wrench to adjust the cylinder.
3. Check for damage to any part of the liftgate.
4. Look for cracks in welds which may have resulted from overloading or abuse.
5. Inspect the platform hinge pins and lift arms for excessive wear.
6. Check all cylinder pins, bolt and clevis for excessive wear.
7. Look for excessive wear on the platform extension pivots.
8. Inspect the linkage pins and clevises for excessive wear.
9. Ensure the platform pivot pins along with their retainers are in place.
10. Look for proper placement and functionality of all the protective covers and guards.

11. Inspect the lift cylinder, hydraulic hose and fittings for leaks. Repair or replace if leaking.
12. Check the hydraulic fluid level in the pump reservoir. Ensure the liftgate is at its lowest level with the platform on the ground. The level should be within 1 / 2" from the top of the reservoir.

HYDRAULIC FLUID	
Temperature	Fluid
-75 to 165°F	Exxon Unis J-26
-20 to 130°F	Dexron III
	Exxon Superflo ATF
	Shell Donax TG
-50 to 80°F	Shell Aero Fluid 4
	Mobil Aero HFA
	Exxon Unis J-13
	MIL H-5606

13. Ensure all wiring and battery cable connections are tight and free of corrosion.
14. Check the pump relief pressure & motor amperage at the pressures listed in the following chart.

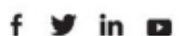
Model	Maximum Amperage Draw	Relief Pressure (psi)
M16	175	2000
M20 & M16 wedge	190	2525
M20 wedge	175	2000
M25 wedge & M30	190	2525
M25	230	3000

Twice per year

1. Perform all monthly maintenance inspections & service.



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2. Paint components showing bare metal to prevent rust and corrosion from reducing structural integrity.
3. Inspect the pump motor by disconnecting the battery cable. Remove the motor end cover. Examine the armature bushes for wear (brushes must be replaced if less than 1 / 8" long). Clean all residue from inside the motor housing. Apply several drops of light weight machine oil to the armature shaft bearing in the motor end cover. Reinstall the motor end cover and reconnect the battery cable.
4. Inspect the hydraulic oil for discoloration indicating it is dirty. If dirty, lower the platform to the ground. Drain the oil and flush the system. Remove the reservoir from the pump & clean the suction filter and reservoir. Reassemble and fill with hydraulic oil indicated in the chart for the operating temperature.

SIDE STAKE GATE

Inspect for damage. Repair or replace.

SECTION 5

Schematics

Schematics may be found by scanning the below QR code. Select the truck and then select "Schematics".



CAUTION

PLEASE CONTACT CURRY SUPPLY COMPANY BEFORE ATTEMPTING ANY CHANGES TO THE ELECTRICAL SYSTEMS. DOING SO MAY CAUSE EQUIPMENT DAMAGE OR VOID WARRANTY.

SECTION 6

Troubleshooting

TOMMY GATE

PROBLEM	POSSIBLE CAUSE	REMEDIES
Lift will not operate – “Power on” amber light does NOT illuminate	Control is not armed properly.	Turn the power on at the control by pressing the “Power on” hidden switch, marked with black rings or circles (located between the Tommy Gate Logo and the toggle switch).
	Poor electrical connection.	Check & repair or replace cable & connections.
	Polarity is reversed.	Switch positive and negative cables.
	Circuit breakers tripped or disengaged.	Check for short, then manually engage circuit breaker.
	Faulty control unit.	Replace control unit.
Lift will not operate “Liftgate Activated” red light does NOT illuminate.	Control not activated properly.	Press the “Liftgate Activated” hidden switch twice within one second (located under the Tommy Gate logo). The red “Liftgate Activated” light should come on.
	Faulty control unit.	Replace control unit.
Blinking amber “Power On” light.	Low voltage condition.	Check and clean or repair electrical connections. Load test battery, then recharge or replace battery, if required.
	Poor grounds or connections.	Repair, replace, clean as necessary.
	Power connected or reconnected since last use.	Normal, press bullseye once to activate solid “Power On” amber light.
Lift will not raise or raises slowly- control working properly.	Poor electrical connection.	Check power & ground cables & all connections.
	Battery charge is low.	Recharge or replace battery.
	Release-valve stuck, partially open or dirty.	Raise the platform completely & continue to run the pump for 5 seconds.
	Release-valve needs replacement.	Contact Curry Supply Company.

	"Raise" solenoid not working.	Contact Curry Supply Company.
	Oil level low.	Add ISO grade 32 hydraulic oil or equivalent.
	Vent plug is not installed or dirty.	A red shipping plug is installed at the factory. It must be replaced by the metal vent plug.
	Overloaded lift gate.	Remove some weight.
Lift settles down slowly with load or without.	Hoses &/or fittings leaking.	Tighten or replace.
	Check valve stuck or dirty.	Raise & lower lift several times to flush out valve.
	Check valve damaged.	Contact Curry Supply Company.
	Cylinder seals are worn or damaged.	Contact Curry Supply Company.
	"Lower" solenoid sticking partially open.	Contact Curry Supply Company.
Pump or motor noisy.	Worn pump, motor or coupling.	Contact Curry Supply Company.
	Oil level low.	Add ISO grade 32 hydraulic oil or equivalent.
Lift lowers very slowly, especially in cold weather.	Hinge arm pins seized to the bushings.	Clean &/or replace arm pins & bushings.
	Lack of lubrication at cylinder pins &/or upper arm assembly.	Lubricate all zerks.
	Cylinder pins seized due to lack of lubricant.	Clean &/or replace cylinder pins.
Lift will not lower.	Control unit not armed & activated – No amber "Power On" light nor red "Liftgate Activated" light.	Press the "Power On" switch, marked with black rings or circles (located between the Tommy Gate logo & the toggle switch). The amber "Power On" light should come on. Now press the hidden "Liftgate Activated" switch twice within one second (located under the Tommy Gate logo). The red "Liftgate Activated" light should come on.
	Poor electrical connections.	Clean or repair electrical connections.
	3 Amp Mini –ATO fuse blown.	Repair short & replace fuse.

	Lift stuck or sprung, if control unit is working properly.	Apply downward load on platform, pry away upright sides.
	Damaged or non-working "lower" solenoid, if control unit is working properly.	Contact Curry Supply Company.
	Hinge arm or cylinder pins seized.	Lubricate, clean &/or replace pins.
Cylinders are making noise (squealing)	Oil other than ISO 32 or equivalent has been added to the power unit.	Add an oil additive that has been approved by Tommy Gate Co. (see note below).

NOTE

TOMMY GATE ISO GRADE 32 HYDRAULIC FLUID OR ISO GRADE 32 EQUIVALENT RECOMMENDED. WITH THE USE OF AUTOMATIC TRANSMISSION FLUID (ATF) OR TOMMY GATE WINTER GRADE HYDRAULIC FLUID THE CYLINDERS MAY BEGIN TO MAKE NOISE. WHILE THERE WILL BE NO DAMAGE TO THE HYDRAULIC SYSTEM, IT MAY BECOME A NUISANCE. AN OIL ADDITIVE CAN BE USED TO ELIMINATE THE PROBLEM. DO NOT USE AN ADDITIVE THAT IS NOT APPROVED BY TOMMY GATE. THE FOLLOWING ADDITIVE IS APPROVED: CATERPILLAR PART# 1U-9891.

THIEMAN GATE

PROBLEM	POSSIBLE CAUSE	REMEDIES
The pump motor will not run in the raise mode.	Tripped circuit breaker.	Reset circuit breaker located within 2ft of the liftgate supply battery.
	Blown 20A fuse.	Replace fuse.
	Defective or undercharged battery.	The "at rest" voltage for the battery without the engine running & under no load must be at least 12.5V. The minimum voltage between the motor stud & ground is 9V at maximum load conditions. If proper voltage is not present, charge or replace the battery. The battery must have 150-amp reserve capacity.
	Improper battery cable connection or improper ground connection.	Trace battery & ground cable connections to locate improper connections. Ensure ground cable is between the aluminum pump base to bare metal on

		the truck frame. Ensure ground cable from the battery is 2ga & connected to bare metal on the truck frame. Ensure 12.5V at the large terminal on the motor start solenoid. Replace damaged cables & repair bad connections.
	Defective or improperly wired raise switch.	Check for voltage on the black wire at the control switch. If no voltage is present the black wire from the motor start solenoid is loose or broken & needs repaired. If voltage is present, then check for voltage at the green & white wire on the switch with the switch in the raise position. If there is no voltage, replace the switch.
	Defective or improperly wired solenoid start switch.	Check for voltage on the white wire at the motor start switch when the switch is activated. If there is no voltage, the white wire is loose or broken between the switch & the motor start solenoid. Check that the purple ground wire on the start solenoid is connected properly & there are no bad connections. If there is voltage on the white wire & the coil does not energize or if there is no voltage present at the motor terminal, then replace the start switch.
	Defective pump motor.	With the switch activated in the raise position & the motor start solenoid is activated, check for voltage at the motor terminal. If voltage is present & the motor is not running, replace the motor.
Liftgate will not rise to bed with a load & the pump motor is running.	Low hydraulic fluid.	With liftgate in the fully lowered position, the fluid must be within ½" of the top of the reservoir. Fill with Dexron III automatic transmission fluid.
	Overload condition.	The power unit on the M is equipped with a lifting relief valve to prevent overloading of the liftgate. The relief settings should be as follows: M16- 2000psi, M20 & M16 wedge- 2525psi, M25 & M20 wedge- 2000psi, M30 & M25 wedge- 2525psi.
	Improperly adjusted or defective main relief valve.	Plumb a pressure gauge into the high-pressure circuit of the liftgate. Remove all loads from the liftgate. Engage the raise switch until the liftgate is

		fully raised. Keep the raise switch engaged until the pump bypasses through the relief valve & note the pressure on the gauge. If the rated relief pressure is not present during relief, adjust the high-pressure relief valve setting as necessary. If the relief pressure is not attainable, the relief valve must be cleaned &/or replaced or the pump is defective.
	Lift cylinder is bypassing, liftgate is drifting down.	If the liftgate will not raise with a load on the platform but empty is raising slowly or only partially, the cylinder may be bypassing. To check for a bypassing cylinder, do the following: Lower the gate to the ground to relieve all pressure from the cylinder. Disconnect the cylinder from the lift arm. Press the raise switch until the cylinder is fully retracted. Disconnect the return line from the power unit and put the end of the line in a container to catch any oil which comes out during this test. Press the raise switch for 15 to 20 seconds and watch for a steady stream of fluid coming out of the return line into the container. If no steady stream of oil is present connect the hose to the butt end of the cylinder after removing the return line and fitting. Re-attach the return line and fitting to the rod end port. Put the loose end of the return line in a container to catch any oil which comes out during this test. Press the raise switch until the cylinder is fully extended. Press the raise switch for 15 to 20 seconds and watch for a steady stream of fluid coming out of the disconnected hose-ends into the container. Replace or rebuild any cylinder with fluid coming of the return line, as this indicates fluid is bypassing the piston seals on the cylinder. Reconnect rebuilt or replaced cylinder and hoses as before.
	Broken hydraulic line.	Replace line.

	Clogged or disconnected suction line.	With the liftgate at the ground, disconnect the power unit and remove the reservoir. Check to see if the suction tube is clogged or has fallen out of the pump base. Clean to see if the suction tube is clogged or has fallen out the pump base. Clean the screen or reattach the suction tube as required.
	Defective Pump	If all else fails, replace the power unit. It is probably worn out.
Liftgate will not lower.	Defective lowering solenoid coil or valve.	With the lower switch engaged, check for voltage on the green wire at the switch. If no voltage is present replace the switch. If voltage is present, with the lower switch engaged, check for voltage at the green wire on the lower solenoid valve coil terminal. If no voltage is present, the green wire from the lower switch is loose or broken and needs replacement. If there is a minimal voltage of 9.5V and the valve is not opening to allow the gate to lower, either the lower coil is bad, or the entire lower coil/valve assembly is bad. To check to see if the coil is defective, remove the green wire from the spade terminal on the lower coil check for continuity between the spade terminal and the nut, which holds the coil on the valve stem. If continuity does not exist, replace the defective coil, otherwise replace the defective lower coil/valve assembly.
	Clogged or defective hydraulic lines, fittings or flow controls.	Remove any obstruction in the hoses, fittings or flow controls or replace any hose, fitting or flow control, which does not allow fluid to flow through freely.
Liftgate rises slowly. The raise speed of the M16/20/25/30 on a 54" bed height while empty at 70°F is approximately	Overload condition.	The power unit on the M is equipped with a lifting relief valve to prevent overloading of the liftgate. The relief settings should be as follows: M16- 2000psi, M20 & M16 wedge- 2525psi, M25 & M20 wedge- 2000psi, M30 & M25 wedge- 2525psi.
	Cold weather.	Use an approved alternate oil for cold weather conditions. These can be found in the maintenance section of this manual.

7-12 seconds. The speed with a load is approximately 15-25 seconds.	Partially blocked suction screen.	Remove the reservoir & clean or replace the suction screen as necessary.
	Lift cylinder is bypassing.	If the liftgate will not raise with a load on the platform but empty is raising slowly or only partially, the cylinder may be bypassing. To check for a bypassing cylinder, do the following: Lower the gate to the ground to relieve all pressure from the cylinder. Disconnect the cylinder from the lift arm. Press the raise switch until the cylinder is fully retracted. Disconnect the return line from the power unit and put the end of the line in a container to catch any oil which comes out during this test. Press the raise switch for 15 to 20 seconds and watch for a steady stream of fluid coming out of the return line into the container. If no steady stream of oil is present connect the hose to the butt end of the cylinder after removing the return line and fitting. Re-attach the return line and fitting to the rod end port. Put the loose end of the return line in a container to catch any oil which comes out during this test. Press the raise switch until the cylinder is fully extended. Press the raise switch for 15 to 20 seconds and watch for a steady stream of fluid coming out of the disconnected hose-ends into the container. Replace or rebuild any cylinder with fluid coming of the return line, as this indicates fluid is bypassing the piston seals on the cylinder. Reconnect rebuilt or replaced cylinder and hoses as before.
	Improperly adjusted or defective raise relief valve.	Plumb a pressure gauge into the high-pressure circuit of the liftgate. Remove all loads from the liftgate. Engage the raise switch until the liftgate is fully raised. Keep the raise switch engaged until the pump bypasses through the relief valve & note the pressure on the gauge. If the rated relief pressure is not present during relief, adjust the high-pressure relief valve setting as necessary. If the relief

		pressure is not attainable, the relief valve must be cleaned &/or replaced or the pup is defective.
	Low voltage and/or bad ground.	The "at rest" voltage for the battery without the engine running & under no load must be at least 12.5V. The minimum voltage between the motor stud & ground is 9V at maximum load conditions. If proper voltage is not present, charge or replace the battery. The battery must have 150-amp reserve capacity.
	Worn out pump.	After all other corrections are performed it will be necessary to replace the pump.
Foamy oil flowing from the reservoir breather.	Air is present in the system.	Air can enter the system if the fluid level is low or if the suction tube is disconnected. Also, air may enter through fittings, which are not tightened properly, so check for any leaks around fittings or hoses. Once the source of the air is determined, the cylinder must be bled of all air. Most air can be removed from the system by lowering the gate to the ground to relieve all pressure from the cylinder, unpinning the cylinder and cycling them back and forth several times from fully extended to fully retracted and allowing the pump to bypass through the relief valves for few seconds in each direction.
	Flow control is on backwards.	The flow control provided is rated at 1.5GPM or 3.0GPM. The arrow on the flow control must point away from the cylinder, designating the direction of the controlled flow. Correct as needed.
	Inoperable flow control.	Remove and disassemble the flow control and check for excessive wear and contamination. Clean as needed and reassemble. If this doesn't correct the problem, replace the flow control.



For technical help or parts, please have the model number available and call our customer service 800.345.2829

SECTION 7

Warranty & Proprietary Information

Curry Supply Company warrants products designed and manufactured by Curry Supply Company to be free from defects in material and workmanship under proper use and maintenance. Products must be installed and operated in accordance with Curry Supply's written instructions and capacities. All warranty periods will begin on the in-service date as defined in this document. This warranty shall cover the following Curry Supply Products:

	1 Year	2 Years	Variable
On Road Water / Flatbed / Crash Attenuator / Lube Skid			
Curry Manufactured Components		✓	
Paint Coverage on Curry Manufactured Parts	✓		
Parts	✓		
Repair Labor	✓		
Off Road / Dump / Industrial Carrier / Vacuum / Winch / Railroad			
Tank	✓		
Tank Exterior Paint Coverage	✓		
Parts	✓		
Repair Labor	✓		
Mechanics			
Body (Refer to Manufacture Warranty)			✓
Crane (Refer to Manufacture Warranty))			✓
Paint Coverage (Refer to Manufacture Warranty)			✓
Parts (Refer to Manufacture Warranty)			✓
Repair Labor (Refer to Manufacture Warranty)			✓
Lube			
Body (Refer to Manufacture Warranty)	✓		
Tanks (Refer to Manufacture Warranty)			✓
Parts	✓		
Repair Labor	✓		
Paint Coverage	✓		
Utility Lift			
Body (Refer to Manufacture Warranty)			✓
Lift (Axion)			✓
Parts	✓		
Repair Labor	✓		
Body Paint Coverage	✓		

Definitions

Curry Supply Manufactured Components/Structures – Includes any structural weldment or load bearing support structure manufactured by Curry Supply Company.

Rust Through on Curry Supply Components/Structures – Rust Through is defined as a hole in the metal caused by corrosion. Excluded is corrosion caused by external caustics, including but not limited to improper cleaning material, road salt and other chemicals left on the structure for extended periods of time.

Paint Coverage on Curry Supply Manufactured Parts – Curry Supply guarantees that exterior paint will not fail in terms of adhesion, blistering or unreasonable loss of color or gloss for a 1-year period. Excluded is damage such as chips, dents, scratches, tank interior coating, and corrosion due to caustic chemicals (e.g. Brine Solution / Leachate) and dirt build-up. Regular cleaning and maintenance of the product to remove external factors is expected to keep this warranty in force.

Vendor Supplied Components/Structures – Products purchased by Curry Supply from outside vendors. These items shall be covered by the warranty offered by the respective manufacturer only. Curry Supply does not obligate itself to any such warranty.

Warranty Process

Curry Supply's obligation under this warranty is limited to, and the sole remedy for any such defect shall be the repair and/or replacement (at Curry Supply's option) of the unaltered part and/or component in question. Curry Supply after-sales service personnel must be notified by telephone, email, or letter of any warranty applicable damage within fourteen (14) days of its occurrence. If possible, Curry Supply will ship the replacement part within 24 hours of notification by the most economical, yet expedient, means possible. Expedited freight delivery will be at the expense of the owner.

Warranty claims must be submitted and shall be processed in accordance with Curry Supply's established warranty claim procedure. Curry Supply after-sales service personnel must be contacted prior to any warranty claim. A return materials authorization (RMA) may be issued to the claiming party prior to the return of warranty parts. Parts returned without prior authorization will not be recognized for warranty consideration. All damaged parts must be returned to Curry Supply freight prepaid; freight collect returns will be refused. Freight reimbursement of returned parts will be considered as part of the warranty claim.

Warranty Repair

Warranty service will be performed by any Curry Supply factory, Curry Supply mobile technician, Curry Supply authorized service partner, or by the affected owner. At the time of requesting warranty service, Curry Supply after-sales service personnel will verify date of delivery of the product. The owner shall be obligated to pay for any overtime labor requested of the servicing company by the owner, any field service call charges, and any towing and/or transportation charges associated with moving the equipment to the designated repair/service provider.

All obligations of Curry Supply and its service providers shall be voided if someone other than an authorized Curry Supply provider performs other than routine maintenance service without prior written or verbal approval from Curry Supply. In the case repair work is performed on a Curry Supply-manufactured product, original Curry Supply parts must be used to keep the warranty in force. The warranty may also be voided if the product is modified or altered in any way not approved, in writing, by Curry Supply.

Warranty Limitations/Responsibilities

This warranty covers only defective material and workmanship. It does not cover depreciation or damage caused by normal wear and tear, accident, mishap, untrained operators, or improper or unintended use. The owner has the obligation of performing routine care and maintenance duties as stated in Curry Supply's written instructions, recommendations, and specifications. Any damage resulting from owner/operator failure to perform such duties shall void the coverage of this warranty. The owner will pay the cost of labor and supplies associated with routine maintenance.

The only remedies the owner has in connection with the breach or performance of any warranty on the Curry Supply product specified are those set above. In no event will Curry Supply, or any company affiliated with Curry Supply, be liable for business interruptions, costs of delay, or for any special, indirect, incidental, or consequential costs or damages. Such costs may include, but are not limited to, loss of time, loss of revenue, loss of use, wages, salaries, commissions, lodging, meals, towing, hydraulic fluid, or any other incidental cost.

All products purchased by Curry Supply from outside vendors shall be covered by the warranty offered by that respective manufacturer only. Curry Supply does not participate in, or obligate itself to, any such warranty.

Curry Supply reserves the right to make changes in design or improvement upon its products without imposing upon itself the same upon its products theretofore manufactured.

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This warranty will apply to all Curry Supply manufactured components/structures and upfit workmanship shipped from Curry Supply's factory. The warranty is for the use of the original owner only and is not transferable without prior written permission from Curry Supply.

Curry Supply After-Sales Contact Information:

Phone: (800) 345-2829

Email: service@currysupply.com

Mailing Address: 1477 DeGol Industrial Drive, Hollidaysburg, PA 16648

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN. CURRY SUPPLY COMPANY IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

EXCEPT AS STATED, THERE IS NO WARRANTY, EXPRESS OR IMPLIED, IN CONNECTION WITH THE DESIGN, MANUFACTURE, SALE OR USE OF THE MACHINERY, ACCESSORIES, EQUIPMENT AND PARTS SOLD BY CURRY SUPPLY CO. CURRY SUPPLY COMPANY'S LIABILITY ON ITS WARRANTY SHALL IN NO EVENT EXCEED THE COST OF THE ITEM OF SALE.

