

com. Click the **PRODUCTS**, **TUK-A-WAY** & **GPT** buttons. Open the **Maintenance Manual** in the **PRODUCT DOCUMENTATION** window. For parts, click on the **PARTS PORTAL**, **TUK-A-WAY** & **GPT** buttons.

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SUMMARY OF CHANGES: M-17-05 REVISION F

PAGE	DESCRIPTION OF CHANGE		
COVER	Updated REV and date of release.		
8, 9	Updated 2GA ground cables in Parts Boxes A & C. Increased quantity of chassis frame clips to 20 in Parts Box C.		
24	Updated power and ground cables installation from optional battery box for trucks and trailers.		
28	Updated 12V battery box cable connections for power and ground cables.		
29	Updated 24V battery box cable connections for power and ground cables.		
31	Updated battery box assembly to show 175A inline fused cable to pump box.		
32, 33	Updated instructions to run power and ground cables together on truck frame and connect ground and power cables in one step.		
35	Updated power cable connection to starter solenoid. Replaced hex nut and wash with 5/16" serrated flange nut. Instruction to mount inline fuse holder on top of fused power cable at battery power terminal.		
37	Updated ground cable connector at pump manifold to 5-16" Hex Flange bolt.		
40	Added Power Down Module terminal nuts torque spec (15 in-lb).		
42	Updated table of recommended ISO 15 hydraulic oils to include PHILLIPS 66 ARCTIC LOW POUR.		
43, 49, 50, 51, 52, 56, 59	1, 52, 56, Lurer's specifications		
64	Added yellow conspicuity tape (P/N 900094-01) to Decals and Plates illustration.		
71	Added Off-Time Delay Module to dual pump electrical schematic.		
73	Added thickness to descriptions of 102" X 14" extension plate kits.		
75	Added check vehicle floor to top of mainframe dimension to Pre-Delivery Inspection Form.		

Comply with the following WARNINGS and SAFETY INSTRUCTIONS while installing Liftgates. See Operation Manual for operating safety requirements.

Installing and maintaining a liftgate can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, install and maintain liftgate in a well-ventilated area and wear **proper Personal protective equipment (PPE)**. For more information go to **www.P65Warnings.ca.gov**.

- Do not stand, or allow obstructions, under the platform when lowering the Liftgate. **Be sure your** feet are clear of the Liftgate.
- Keep fingers, hands, arms, legs, and feet clear of moving Liftgate parts (and platform edges) when operating the Liftgate.
- Correctly stow platform when not in use. Extended platforms could create a hazard for people and vehicles passing by.
- Make sure vehicle battery power is disconnected while installing Liftgate. Connect vehicle battery power to the Liftgate only when installation is complete or as required in the installation instructions.
- If it is necessary to stand on the platform while operating the Liftgate, keep your feet and any objects clear of the inboard edge of the platform. Your feet or objects on the platform can become trapped between the platform and the Liftgate extension plate.
- Never perform unauthorized modifications on the Liftgate. Modifications may result in early failure of the Liftgate and may create hazards for Liftgate operators and maintainers.
- Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.
- Recommended practices for welding galvanized steel are contained in the current AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

SAFETY INSTRUCTIONS

- Read and understand the instructions in this Installation Manual before installing Liftgate.
- Before operating the Liftgate, read and understand the operating instructions in **Operation Manual**.
- Comply with all **WARNING** and instruction decals attached to the Liftgate.
- Keep decals clean and legible. If decals are illegible or missing, replace them. Free replacement decals are available from **Maxon Customer Service**.
- Consider the safety and location of bystanders and location of nearby objects when operating the Liftgate. Stand to one side of the platform while operating the Liftgate.
- Do not allow untrained persons to operate the Liftgate.
- Wear appropriate safety equipment such as protective eyeglasses, faceshield and clothing while performing maintenance on the Liftgate and handling the battery. Debris from drilling and contact with battery acid may injure unprotected eyes and skin.
- Be careful working by an automotive type battery. Make sure the work area is well ventilated and there are no flames or sparks near the battery. Never lay objects on the battery that can short the terminals together. If battery acid gets in your eyes, immediately seek first aid. If acid gets on your skin, immediately wash it off with soap and water.
- If an emergency situation arises (vehicle or Liftgate) while operating the Liftgate, release the control switch to stop the Liftgate.
- A correctly installed Liftgate operates smoothly and reasonably quiet. The only noticeable noise during operation comes from the power unit while the platform is raised and lowered. Listen for scraping, grating and binding noises and correct the problem before continuing to operate Liftgate.

NOTICE

- Maxon Lift is responsible for the instructions to correctly install **MAXON** Liftgates on trucks or trailers only.
- Liftgate installers, not Maxon Lift, are responsible for reviewing and complying with all applicable Federal, State, and Local regulations pertaining to the trailer or truck.
- Installers of the liftgate should ensure that all trucks and trailers are equipped with grab handles as needed. Refer to Technology Maintenance Council (TMC) RP 1428: Entry And Egress Guidelines for Vehicles With Fold-Under Type Liftgates.

STANDARD LIFTGATE COMPONENTS

A CAUTION

Unpacking the Liftgate on unlevel surface may allow heavy components to slide off when shipping bands are cut. Injury and equipment damage could result. Before the shipping bands are cut, put Liftgate on level surface that will support 1500 lbs. When unpacking the Liftgate, remove heavy components carefully to avoid injury and damage.

NOTE: Make sure you have all components and parts before you start installing Liftgate. Compare parts in the part box and each kit box with packing list enclosed in each box. If parts and components are missing or incorrect, call:

Maxon Customer Service Call (800) 227-4116 or Send e-mail to cservice@maxonlift.com



GPT INSTALLATION PARTS BOXES

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX A	1	297502-01
1	FRAME CLIP	10	050079
2	#10 RUBBER LOOM CLAMP	2	801681
3	CABLE ASSEMBLY, 175 AMPS, 38 FT LG.	1	264422
4	SELF-TAPPING SCREW, 10 X 1/2" LG.	2	030458
5	CABLE ASSEMBLY, 2 GA, BLACK, 56-1/4" LG.	1	267942-05
6	CAP SCREW, 5/16"-18 X 1-1/4", GR8	1	900009-5
7	FLAT WASHER, 5/16"	2	902000-8
8	LOCKNUT, 5/16"-18	1	901001
9	PLASTIC TIE WRAP	2	206864
10	COPPER LUG, 5/16", 2 GA.	1	905497-02
11	HEAT SHRINK TUBING, 3/4" X 1-1/2" LG.	1	253316-04

PARTS BOX A TABLE 8-1

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX B	1	297049-02
1	SHIM, 2-1/2" X 1" X 16 GAUGE	2	264732
2	TOGGLE SWITCH ASSEMBLY	1	296855-01
3	HEX NUT, 1/2"-13	2	901011-9
4	CAP SCREW, 1/2"-13 X 1-1/2" LG.	2	900035-3
5	INSTALLATION BRACKET, EXTENSION PLATE	2	209836-01
6	LUG, 2 GAUGE, COPPER, 5/16"	1	906497-02
7	SCREW, SELF TAPPING, #10-24 X 1-1/2" LG.	2	900057-7
8	HEAT SHRINK TUBING, 3/4" X 1-1/12" LG.	1	253316-04
9	FLAT, 2-1/2" X 1" X 1/8" THICK	2	201999
10	FLAT, 2-1/2" X 1" X 1/4" THICK	2	090144-38
11	LICENSE PLATE BRACKET KIT	1	287015-01

PARTS BOX B TABLE 8-2

GPT INSTALLATION PARTS BOXES - Continued

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX C	1	297502-02
1	FRAME CLIP	20	050079
2	CABLE ASSY, 175 AMP 38 FT LG.	1	264422
3	GROUND CABLE ASSY, 2 GA X 38 FT LG.	1	269191-08
4	#10 RUBBER LOOM CLAMP	2	801681
5	SELF-TAPPING SCREW, 10 X 1/2" LG.	2	030458
6	CAP SCREW, 3/8"-16 X 1-1/2", GR8	1	900014-6
7	FLAT WASHER, 3/8"	2	902001-2
8	LOCKNUT, 3/8"-16	1	901002
9	PLASTIC TIE WRAP	4	206864
10	COPPER LUG, 5/16", 2 GA.	2	906497-02
11	HEAT SHRINK TUBING, 3/4" X 1-1/2" LG.	2	253316-04

PARTS BOX C TABLE 9-1

GPT-SERIES MANUALS & DECALS

NOTE: To find maintenance information for your GPT Liftgate, go to www.maxonlift. com. Click the PRODUCTS, TUK-A-WAY & GPT buttons. Open the Maintenance Manual in the PRODUCT DOCUMENTATION window. For parts, click on the PARTS PORTAL, TUK-A-WAY & GPT buttons.

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	DECAL & MANUAL KIT	1	298125-01 (GPT-25)
			298125-02 (GPT-3)
			298125-03 (GPT-4)
			298125-04 (GPT-5)
1	INSTALLATION MANUAL (GPT)	1	M-17-05
2	OPERATION MANUAL (GPT & GPTWR) 1		M-17-07
3	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	(ALL GPT'S)

TABLE 10-1

NOTE: BODY maximum and minimum operating bed height: For all GPT models with standard platform:

Maximum height is 55" (Unloaded). Minimum height is 46" (Loaded). On vehicle bodies equipped with swing open doors, the extension plate and vehicle body must be modified to install this Liftgate.

NOTE: Make sure vehicle is parked on level ground and parking brake set while preparing vehicle and installing Liftgate.

NOTE: Dimensions are provided as reference for fitting Liftgate to vehicle body.





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VEHICLE REQUIREMENTS - Continued

A WARNING

Incorrect modification of vehicle frame and/or body could contribute to serious mechanical failure of the vehicle. Serious injury to operator, motorists, and bystanders could result. Installer is responsible for ensuring vehicle body and frame modification do not adversely affect the integrity of the body and frame. If unsure about modifying vehicle, installer should consult truck/trailer body manufacturer.

CAUTION

To prevent aluminum platform from being damaged, make sure vehicle frame is cut correctly and rear sills are modified if over 4-1/8" in height. If the cutouts are incorrect, platform may hit vehicle frame or underbody when stowing Liftgate. If rear sill is over 4-1/8" in height, bottom of the platform may hit the sill. See the next page for interference areas that can result from rear sills over 4" in height.

NOTE: Dimensions, shown in illustration below, are maximums except as indicated.

NOTE: The platform cutout area shown below applies to trucks and trailers.

2. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in FIG. 12-1.



VEHICLE REQUIREMENTS - Continued

Incorrect modification of vehicle frame and/or body could contribute to serious mechanical failure of the vehicle. Serious injury to operator, motorists, and bystanders could result. Installer is responsible for ensuring vehicle body and frame modification do not adversely affect the integrity of the body and frame. If unsure about modifying vehicle, installer should consult truck/trailer body manufacturer.

 If the rear sill is over 4-1/8" in height, measure and mark the areas to be modified on the sill as shown in FIG. 13-1. A side view of the interference areas is shown in FIG. 13-2.



SIDE VIEW - REAR SILL MORE THAN 4-1/8" IN HEIGHT FIG. 13-2

CENTER OF MASS



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STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE

CAUTION

To preserve the corrosion-resistant properties of the galvanized finish, MAXON recommends bolting the galvanized extension plate to vehicle.

NOTE: GPT Liftgate extension plate comes with bolt holes so it can be bolted to vehicle body with optional bolt kit. GRADE 8 bolts are required. MAXON recommends getting the optional extension plate hardware kit listed in **OPTIONS** section. Vehicle body must be drilled according to instructions. Extension plate may also be welded to vehicle body. Do the following bolting or welding instructions for the extension plate.



BOLT EXTENSION PLATE

1. Mark and drill holes into rear sill as shown in FIGS. 15-1 and 16-1.

REAR SILL - HOLE LOCATIONS FOR 96" WIDE VEHICLE FIG. 15-1



REAR SILL - HOLE LOCATIONS FOR 102" WIDE VEHICLE FIG. 16-1

CAUTION

The mating surface between the bolt-on extension plate and vehicle rear sill must be as flat as possible. Interference between the mating surfaces could result in a distorted top surface of extension plate when all the bolts are tightened. Distorted extension plate can also make the dual steps difficult to install correctly. Remove interference or shim rear sill to eliminate or reduce the possibility of a distorted extension plate.

NOTE: Do not tighten extension plate bolts and lock nuts until:

- All the bolts and lock nuts are in place.
- Mating surfaces of extension plate and rear sill are made flat as possible.
- Top of extension plate is flush with top of rear sill.

NOTE: Weld the LH and RH ends of the extension plate to vehicle body as shown in **FIG. 17-1** if any of the following conditions apply.

- Bolt holes are not accessible on the corner posts of the vehicle body.
- Liftgate will be used for dock loading applications.
- As required by body/trailer manufacturer
- Bolt extension plate to vehicle as shown in FIG. 17-1. If necessary, reposition extension plate so top surface is flush with top surface of sill. Then, torque bolts and lock nuts to 105 +/-20 lb-ft.
 BOLTS



NOTE: An optional 102" wide extension kit is available for 102" wide vehicles.

WELD EXTENSION PLATE (ALTERNATE METHOD)

CAUTION

To preserve the corrosion-resistant properties of the galvanized finish, MAXON recommends bolting the galvanized extension plate to vehicle.

CAUTION

To protect the original paint system if equipped, a 3" wide area of paint must be removed from all sides of the weld area before welding.

NOTE: Before welding extension plate to vehicle body, make sure:

• Inboard edge of extension plate is flush with the top of sill on vehicle body.

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• Top surface of extension plate is level with the ground.

NOTE: For welding galvanized steel, refer to recommended practices as outlined in AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel.

 Center the extension plate on vehicle body. Weld the extension plate to vehicle body sill as shown in FIGS. 18-1 and 19-1.



FIG. 18-1



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH FIG. 19-1

- **NOTE:** During installation of liftgate, installation brackets keep the heel of the platform level with extension plate and maintain a ³/₄" gap between extension plate and heel of platform. The extension plate has bolt holes for bolting on the installation brackets. Make sure dowel is snug against edge of extension plate.
- 2. Bolt 2 installation brackets (parts bag items) on the extension plate as shown in FIG. 19-2. Then, torque cap screws and lock nuts to 85-120 lb-ft.



FIG. 19-2

STEP 2 - WELD LIFTGATE TO VEHICLE

NOTE: GPT Liftgates are equipped with mounting plates installed at the factory. Mounting plate widths are shown based upon truck or trailer frame widths. Ensure you have the correct mounting plate kit for your application.

If it's necessary to unbolt mounting plates from main frame (FIG. 20-1), torque mounting plate nuts and bolts 120 +/- 5 lb-ft (All GPT'S).



BOLT ON MOUNTING PLATES FOR INSTALLATION ON TRUCKS &TRAILERS (REAR VIEW OF LIFTGATE) FIG. 20-1

LIFTGATE MODEL	"D" INSIDE	"D" OUTSIDE	APPLICATION
ALL GPT'S	32-3/4"	33-3/4"	Truck
	34-1/4"	35-1/4"	Common Truck Chassis Width
	32-1/4"	33-1/4"	Trailer applications
	34-3/4"	35-3/4"	Trailer applications (91 cm)

TABLE 20-1

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

1. Unfold the platform and flipover (FIG. 21-1).



PLATFORM & FLIPOVER UNFOLDED FIG. 21-1

2. Unbolt opener from mounting bracket (shipping position) and save to reinstall (FIG. 21-1).

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

ACAUTION

To prevent damage to aluminum flipover, NEVER hoist the Liftgate by the flipover as illustrated below. Hoist the Liftgate by the platform only as shown in the illustration below.

CAUTION

Correct floor clearance must be maintained when Liftgate is in position and being welded. Maintain distance between vehicle floor and top of main frame at center of main frame as shown in the instructions. Dimension tolerance is +/- 1/4". Never apply force at the ends of the main frame tube to change the floor clearance.

3. Make sure hoist is set up the correct way (FIG. 22-1). Place a "C" clamp on each side of platform (FIG. 22-1) to prevent hoist chain from slipping off platform. Wrap chain around width of platform to engage the chain with platform (FIG. 22-1). **VEHICLE FLOOR** (HORIZONTAL) MOUNTING **FLIPOVER HOIST CHAIN** PLATE **PLATFORM** 23-7/8" (GPT-25/-3) C-CLAMP * 22-3/8" (GPT-4/-5) (2 PLACES) FLOOR JACK (CENTERED ON MAIN FRAME TUBE) **NOTE:** Ensure the platform is up MAIN against the bottom of the FRAME installation bracket, and tight against the dowel. **4.** Hoist the Liftgate. Then, * TOLERANCE IS +/- 1/4" place floor jack under center of main frame (FIG. 22-1). **CORRECT WAY TO HOIST LIFTGATE** Jack the Liftgate into position. FIG. 22-1 Make sure vehicle floor is

horizontal. Maintain distance between floor and top of main frame as shown in **FIG. 22-1**.

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

CAUTION

Prevent damage to hydraulic hoses. If welding next to hydraulic hoses, use a protective cover such as a welding blanket to cover the hoses.

CAUTION

To protect the original paint system if equipped, a 3" wide area of paint must be removed from all sides of the weld area before welding.

CAUTION

When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.



 Weld the mounting plates to vehicle frame as shown in FIG. 23-1. Remove clamps.

RECOMMENDED CONFIGURATION

NOTE: Make sure the Liftgate power unit, and all batteries on the vehicle for the power unit, are connected correctly to a common chassis ground.

 Liftgate and optional battery box are typically installed on trailers as shown in FIG. 24-1 and on trucks as shown in FIG. 24-2.



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NOTE: The hanger brackets for the battery box frame can either be bolted or welded to the cross members of the vehicle body. If welding mounting brackets to cross members, skip instruction 3.



A WARNING

Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

CAUTION

To prevent pump box components from being damaged by electric current from welding, connect welder grounding cable to the part being welded.

CAUTION

Cover pump box and optional battery box with flame-resistant covering before welding pump box frame to vehicle.



Remove all rings, watches and jewelry before doing any electrical work.

NOTE: Always connect fused end of power cable to battery positive (+) terminal.

NOTE: To connect charge lines, refer to instructions provided with each charge line kit.

4. Connect battery cables, fused cables, and ground cables for 12 volt power as shown in **FIG. 28-1** or 24 volt power as shown in **FIG. 29-1**.





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NOTE: Always connect fused end of power cable to battery positive (+) terminal.

NOTE: To connect charge lines, refer to instructions provided with each charge line kit.



FOR 24 VOLT POWER FIG. 29-1

A WARNING

Explosive hydrogen gas from charging batteries can accumulate in battery box if not vented from the box. To prevent hydrogen gas from accumulating, ensure the 3 ventilation holes in battery box are not plugged or covered.



FIG. 30-1





STEP 4 - RUN POWER & GROUND CABLES

NOTE: Make sure the Liftgate power unit, and all batteries on the vehicle for the power unit, are connected correctly to a common chassis ground.

RECOMMENDED CONFIGURATION

 Liftgate powered from truck batteries is typically installed on trucks as shown in FIG. 32-1. See the following page for running the power cable and dedicated ground cable.



RECOMMENDED LIFTGATE & POWER CABLE INSTALLATION ON TRUCK FIG. 32-1

STEP 4 - RUN POWER & GROUND CABLES - Continued

Never route an energized wire. Make sure the vehicle battery is disconnected. Always route electrical wires clear of moving parts, brake lines, sharp edges and exhaust systems. Avoid making sharp bends in wiring. Keep adequate distance between (+) and (-) cables that connect to battery. Attach securely. If drilling is necessary, first check behind the drilling surface so you do not damage any fuel lines, vent lines, brake lines or wires.



NOTE: Make sure Liftgate power unit, and all batteries on the vehicle for power unit, are connected correctly to vehicle common chassis ground. If using the dedicated 38 foot long ground cable, ensure cable is connected to Liftgate battery (-) terminal **(STEP 9)**.



FIG. 33-1

STEP 5 - CONNECT POWER CABLE

1. Unbolt and remove pump cover (FIG. 34-1).



2. On the bare wire end of fused power cable, keep enough length to attach copper terminal lug and reach motor solenoid switch (single pump) or pump selector switch (dual pumps) without putting tension on cable (after connection) (FIG. 34-2). Measure (if needed), and then cut excess cable from bare wire end of cable. Put heat shrink tubing (parts bag item) (FIG. 34-2A) on the end of the cable and leave room for terminal lug. Crimp copper terminal lug (parts bag item) on the fused power cable and shrink the heat shrink tubing (FIG. 34-2B).



TYPICAL FUSED POWER CABLE ROUTING - SINGLE PUMP FIG. 34-2

STEP 5 - CONNECT POWER CABLE - Continued

CAUTION

Do not over-tighten the terminal nuts on solenoid switch. For the load terminals, torque nuts to 40-45 lb-in max. Torque the nuts on #10-32 control terminals to 15 lb-in.

NOTE: Form a drip loop in the fused power cable where it enters the power unit on the outside of the pump mounting plate.

NOTE: Do not remove flat washer from the battery power terminal.

NOTE: For **dual pump configuration**, skip instruction 3 and complete instruction 4.

Remove hex flange nut from battery power terminal on the solenoid switch (FIG. 35-1). Remove fuse holder assembly. Connect fused power cable from vehicle battery to solenoid switch battery power terminal (FIG. 35-1). Connect the fuse holder assembly on top of the fused power cable as shown in FIG. 35-1. Reinstall and tighten hex flange nut to 40-45 lb-in.



FIG. 35-1

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STEP 5 - CONNECT POWER CABLE - Continued



CABLE ELECTRICAL CONNECTION - DUAL PUMPS FIG. 36-1

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STEP 6 - CONNECT GROUND CABLE

NOTE: To ensure the power unit is correctly grounded, connect 2 gauge ground cable from grounding connection on Liftgate power unit to a grounding point on the frame. For the optional 38-ft dedicated ground connection to the negative Liftgate battery terminal, refer to STEP 9.

NOTE: Electrical lines must be run into pump box through sealing grommets (FIG. 37-1A). To ensure a good seal on the electrical lines, never cut the sealing grommets.



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STEP 6 - CONNECT GROUND CABLE - Continued

NOTE: If there is a grounding point on the frame, connect ground cable from Parts Box A. Then, skip the step for drilling a hole.

NOTE: Clean the ground cable connection point on the frame down to bare metal.

CHASSIS GROUND OPTION

- 4. Extend the ground cable to reach vehicle frame (FIG. 38-1) without putting tension on cable (after connection). Connect to an existing grounding point if available.
- If necessary, drill a 11/32" (0.343") hole in vehicle frame for bolting the ground cable terminal lug (FIG. 38-1).
- 6. To prevent corrosion, paint or use galvanized spray on bare metal area FIG. 38-1.
- Bolt the ground cable terminal lug to vehicle frame with cap screw, flat washer and locknut from Parts Box A (FIG. 38-1). Tighten cap screw to 20 lb-ft.



STEP 7 - INSTALL CONTROL SWITCH

1. Drill one 3/4" hole and two #21 (.159") size holes in the vertical post on curb side of vehicle body as shown in **FIG. 39-1**.



DRILLING MOUNTING HOLES FIG. 39-1

STEP 7 - INSTALL CONTROL SWITCH - Continued

NOTE: Form a drip loop in the control switch cable where it enters the power unit on the outside of the pump mounting plate.

- 2. Insert control switch cable into the 3/4" hole down the corner post through floor of the truck body. Then, run cable under the vehicle body to the pump assembly (FIG. 40-1.) Insert switch cable through cord grip on pump mounting plate (FIG. 40-2). Connect the switch wiring to the power down module as shown in (FIG. 40-2) and torque nuts to 15 lb-in.
- **3.** Push control switch and cable back into the 3/4" hole in the vertical post until control switch cover touches the post (FIG. 40-1). Attach control switch to vertical post with 2 self-tapping screws (FIG. 40-1).
- **4.** If necessary, use clamps and self-tapping screws, from installation parts bag, to secure switch cable to vehicle (FIG. 40-1).



CONTROL SWITCH WIRING CONNECTIONS FIG. 40-2

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NOXT

STEP 8 - CHECKING HYDRAULIC FLUID

CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

NOTE: Liftgate is shipped with ISO 32 hydraulic fluid. Use correct hydraulic fluid for climate conditions.
 +50 to +120 Degrees F - Grade ISO 32
 Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606
 See TABLES 42-1 & 42-2 for recommended brands.

1. Check the hydraulic fluid level in reservoir with Liftgate stowed, or platform at vehicle bed height.

NOTE: Information for checking OIL LEVEL is shown on a decal on the pump reservoir.

 Check if hydraulic fluid level is in the range shown on decal (FIG. 41-1). If necessary, remove filler cap (FIG. 41-1) and add hydraulic fluid until level rises within the range on decal (FIG. 41-1). Then, reinstall filler cap (FIG. 41-1).



POWER UNIT FLUID LEVEL FIG. 41-1

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. To secure pump cover, the long side of the holder flats must butt against pump cover as shown in the illustration.

 Bolt on the pump cover as shown in FIG. 41-2. Hand tighten the threaded cover knobs.



STEP 8 - CHECKING HYDRAULIC FLUID - Continued

ISO 32 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
ROSEMEAD	ROSEMEAD MV150	
EXXONMOBIL	MOBIL DTE 10 EXCEL 32	
EXXONMOBIL	UNIVIS N-32, DTE-24	
CHEVRON	CHEVRON AV MV32	
CHEVRON	HIPERSYN 32	
U.S. PRESTIGE	PRESTIGE AW HVI 32	
KENDALL	GOLDEN MV	
SHELL	TELLUS S2 VX 32	

TABLE 42-1

ISO 15 OR MIL-H-5606 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
CHEVRON	FLUID A, AW-MV-15	
KENDALL	GLACIAL BLU	
SHELL	TELLUS S2 VX 15	
EXXONMOBIL	UNIVIS HVI-13	
PHILLIPS 66	ARCTIC LOW POUR	
ROSEMEAD	THS FLUID 17111	

TABLE 42-2

STEP 9 - CONNECT POWER & GROUND CABLES TO BATTERY



FIG. 43-3

CAUTION

Check for leaking hydraulic fluid as the system is being pressurized. If there is leakage, stop & correct the problem before fully pressurizing the system.

1. Push control switch to **UP** position to pressurize hydraulic system. Listen for hydraulic fluid flowing through the system. Check for fluid leaks. When the sound of flowing fluid stops, release control switch. Hydraulic system is ready.

NOTE: To operate Liftgate, locking angles must be removed from the lift arms and shipping bolt must be removed from both knuckles.

- 2. Remove locking angles from lift arms (FIG. 44-1).
- 3. With platform open (FIG. 44-1), unbolt each knuckle as shown in FIG. 44-1A.



4. Remove floor jack and hoist supporting Liftgate (FIG. 45-1).





6. Lower platform to the ground (FIG. 46-1).

7. Unbolt the 2 installation brackets

from extension plate (FIG. 46-2).



FIG. 46-2

NOTE: Correct any fit and interference problems before continuing with installation.

 Raise the platform to vehicle floor level (FIG. 47-1). (Refer to GPT Series OPERATION MANUAL.) Check for 5/8" gap between platform and edge of extension plate (FIG. 47-1).



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NOTE: Correct any fit and interference problems before continuing with installation.



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STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE

NOTE: If Liftgate is equipped with underride, skip these instructions for installation with ICC bumper. Go to the instructions for INSTALLATION WITH UNDERRIDE.



FIG. 49-2

STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd

NOTE: License plate bracket can be bolted in 4 positions on the ICC bumper brackets. License plate bracket can be bolted on the inside or outside of the LH bumper bracket or RH bumper bracket.



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tions in Operation Manual.

STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd

INSTALLATION WITH UNDERRIDE

1. Lower platform to ground level. Refer to operating instructions in Operation Manual.



STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd

INSTALLATION WITH UNDERRIDE - Continued



8. Stow and unfold platform several times to verify there is no interference.

EXAMPLE FOR POSITIONING & RIVETING LICENSE PLATE BRACKET TO UNDERRIDE FIG. 52-2 (800) 227-4116 FAX (888) 771-7713

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STEP 12 - ADJUST PLATFORM (IF REQUIRED)

NOTE: Before doing the following procedure, make sure vehicle is parked on level ground.

- 1. Lower platform to the ground. With the platform and flipover unfolded, raise platform to bed level (FIG. 53-1). Measure how much the outboard edge of platform rises above bed level (FIG. 53-1). The outboard edge must be level or a maximum of 1" above bed level (FIG. 53-1). If indication is correct, Liftgate is installed correctly and no adjustment is needed. If the outboard edge is below bed level, do instructions 2, 3, and 6. If outboard edge is higher than 1", do instructions 4 through 6.
- 2. Compare measurement "A" (FIG. 53-2) with the distances and shims (in TABLE 53-1. For example: If measurement "A" (FIG. 53-2) is 1" below level and you want to raise outboard edge of platform 1" above level, use 1/8" shim to raise 2" (TABLE 53-1).

RAISE PLATFORM EDGE (OUTBOARD) THIS DISTANCE ("A")	REQUIRED SHIM THICKNESS	WELD SIZE "W"
1"	1/16"	1/16"
2"	1/8"	1/8"
3"	3/16"	3/16"
4"	1/4"	1/4"

TABLE 53-1

- **NOTE:** If you need a 3/16" shim for this adjustment, use a 1/8" shim and 1/16" shim together on each platform stop.
- **3.** Weld shims (Parts Box B) on both platform stops (FIG. 53-3) to raise outboard edge of platform to correct position.



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STEP 12 - ADJUST PLATFORM - Continued

4. Compare measurement "B" (FIG. 54-1) with distances and grinding depths in TABLE 54-1. For example: If measurement "B" (FIG. 54-1) is 3" above bed level and you want to lower the outboard edge of platform to 1" above bed level, grind 1/8" from each platform stop (TABLE 54-1).

LOWER PLATFORM	GRIND METAL
EDGE (OUTBOARD)	FROM PLATFORM
THIS DISTANCE ("B")	STOP
1"	1/16"
2"	1/8"
3"	3/16"
4"	1/4"

TABLE 54-1

 Grind metal from platform stops (FIG. 54-2) to lower outboard edge of platform to correct position.

6. Lower the platform, then raise it to bed

level. The outboard edge of platform should be level or up to 1" maximum

above bed level (FIG. 54-3).



PLATFORM EDGE ABOVE BED LEVEL FIG. 54-3

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STEP 13 - FINISH WELDING LIFTGATE TO VEHICLE

CAUTION

Prevent damage to hydraulic lines. Before welding next to hydraulic lines, protect the lines with a heat-resistant cover such as a welding blanket.

CAUTION

To protect the original paint system, a 3" wide area of paint must be removed from all sides of the weld area before welding.

CAUTION

When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.



STEP 14 - BOLT STEPS TO EXTENSION PLATE

1. Lower platform to the ground (FIG. 56-1). PLATFORM LOWERED TO GROUND FIG. 56-1 A WARNING To prevent personal injury and equipment damage, disconnect (-) battery cable and (+) cable from battery. POSITIVE (+) 2. Disconnect power to the pump by dis-**POWER CABLE** connecting negative (-) and positive (+) NUT cables from battery (FIG. 56-2). Reinstall nuts on negative (-) and positive (+) battery terminals. Tighten battery POSITIVE (+) terminal nuts according to battery **NEGATIVE (-) BATTERY POST** manufacturer's specifications. **BATTERY POST** DEDICATED (-) NEGATIVE (-) **GROUND CABLE** BATTERY CABLE (IF EQUIPPED) BATTERY DISCONNECTING BATTERY POWER FIG. 56-2

STEP 14 - BOLT STEPS TO EXTENSION PLATE - Cont'd

CAUTION

To prevent interference with Liftgate and possible damage, maintain 90° angle between steps and extension plate. Tighten bolts only in the order shown in illustration.

NOTE: If 102" extension kit is to be installed for 102" wide vehicle, install the extension kit before installing the steps.

3. Line up the LH step (Kit item) on LH side of the extension plate. Bolt step to extension plate (FIG. 57-1). Tighten LOCK NUT FLANGE LOCK NUT (2 PLACES) bolts 1, 2, 3 and 4 in the numbered (2 PLACES) PART OF order shown in **FIG. 57-1**. Then, torque **EXTENSION** each bolt and lock nut to 105 lb-ft. in PLATE the same order. ۲ FLAT WASHER (2 PLACES) ሰ 1/2"-13 C CARRIAGE BOLT 3 4 (2 PLACES) 0 1/2" X 1-1/2" LG -FRAME BOLT 1 0 2 (2 PLACES) 90° 0 LH STEP 0 BOLTING STEP TO EXTENSION PLATE (LH DUAL STEP SHOWN) FIG. 57-1

STEP 14 - BOLT STEPS TO EXTENSION PLATE - Cont'd

 Bolt the step support (Kit item) to mounting channel (Kit item) (FIG. 58-1).



BOLTING SUPPORT TO MOUNTING CHANNEL & STEP (LH DUAL STEP & SUPPORT SHOWN) FIG. 58-1

- 5. Butt the flat part of the mounting channel against bottom of vehicle rear sill and I-beams. Then, butt the step support against back of the step (FIG. 58-1).
- Ensure slotted hole in the step support is lined up with the hole on the step (FIG. 58-1). Then, bolt the support to step (FIG. 58-1). Torque the lock nuts (FIG. 58-1) to 105 lb-ft.

STEP 14 - BOLT STEPS TO EXTENSION PLATE - Cont'd



FIG. 59-2

STEP 15 - VEHICLE TAILLIGHT POSITIONING

NOTE: Taillights may interfere with Liftgate. Taillights and attaching hardware are not provided with the Liftgate. If needed, install vehicle taillights to comply with state and federal vehicle lighting requirements, such as FMVSS 108.

STEP 16 - LUBE GREASE FITTINGS (AS NEEDED)

NOTE: Lube fittings are shown for the RH cylinder, lift arm, and parallel arm. There are also lube fittings at the same places on the LH cylinder, lift arm, and parallel arm.

Refer to lubrication diagram **(FIG. 61-1)** to find the lube fittings on cylinders and arms. Pump EP chassis grease in each lube fitting on the cylinders and arms until grease starts oozing from ends of the bearings. Then, wipe off excess grease with a clean lint-free cloth.



ATTACH DECALS

NOTE: Ensure there is no residue, dirt or corrosion where decals are attached. If necessary, clean surface before attaching decals.

NOTE: Preferred decal layout is shown. Decals on the Liftgate are attached at the factory. If vehicle does not permit this layout, decals in the manual and decal kit must be applied so that they are easily visible when approaching vehicle to operate Liftgate. Use good common sense when locating these decals on vehicle.





ATTACH DECALS - Continued



OPERATING INSTRUCTIONS GPT Scan this QR code to see operation manual or video. STOW OPERAT Push contr 1 Raise platform 2' (Must 1 2 Fold flipover 2 Unfold platform 3 Unfold flipov 3 Fold platfo (4) Ramp to ground 4 Push contro 1 5 Liftgate sto 5 Raise / Lowe P/N 297205-01



DECAL SHEET P/N 297205-01 FIG. 63-1

MODEL	DECAL P/N	CAPACITY DECAL
GPT-25	220382	2500 POUNDS
GPT-3	220388	3000 POUNDS
GPT-4	296274-01	4000 POUNDS
GPT-5	296274-02	5000 POUNDS

CAPACITY DECAL TABLE 63-1

DECALS & PLATES



FIG. 64-1

TOUCH-UP PAINTED OR GALVANIZED FINISH

CAUTION

Damaged cylinder seals and contaminated hydraulic fluid can result from painting the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while painting.

- If bare metal or primer is exposed on the painted portions of the Liftgate, touch up the paint. To maintain the protection provided by the original paint system, **MAXON** recommends aluminum primer touchup paint.
- If bare metal is exposed on galvanized portions of the Liftgate, touch up the galvanized finish. To maintain the protection provided by the original galvanized finish, **MAXON** recommends cold galvanize spray.

SYSTEM DIAGRAMS PUMP MOTOR & SOLENOID SWITCH OPERATION - SINGLE PUMP



TABLE 66-1

PUMP MOTOR & SOLENOID SWITCH OPERATION - DUAL PUMPS





DUAL PUMP POWER UNIT - REAR VIEW FIG. 67-2

DUAL PUMP POWER UNIT FIG. 67-1

NOTE: Hydraulic lock valves are located on the RH & LH cylinders.

PUMP MOTOR & SOLENOID SWITCH OPERATION					
		SOLENOID SWITCH OPERATION (✓ MEANS ENERGIZED)			
LIFTGATE FUNCTION	PORT	MOTOR	VALVE "S1"	LOCK VALVES	ARC SUPPRESSION MODULE
RAISE	C1	\checkmark	-	-	\checkmark
LOWER	C2	\checkmark	\checkmark	\checkmark	\checkmark
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC					

TABLE 67-1





HYDRAULIC SCHEMATIC (POWER DOWN) - DUAL PUMPS



FIG. 69-1

ELECTRICAL SCHEMATIC (POWER DOWN)



FIG. 70-1

ELECTRICAL SCHEMATIC (POWER DOWN) - DUAL PUMPS



SYSTEM DIAGRAMS **GPT ELECTRICAL VALUES & TORQUE SPECIFICATIONS**

Solenoid Switch	12V	24V
Coil resistance:	5.4Ω @70°F. ±15%	20.1Ω @70°F. ±15%
Ampere:	2.2A	1.2A
Coil terminal torque: 10-15 lb-in max.		
Contact terminal torque: 30-35 lb-in max.		
Solenoid Valves (S1 & S2)		
Coil resistance:	4.0Ω @ 70°F. ±15%	26.7Ω @ 70°F. ±15%
Ampere:	3A, 2.5A @10V	
Coil terminal torque: 15-45 lb-in max.		
Valve cartridge torque: 25-30 lb-ft max.		
Coil nut torque: 15-45 lb-in		
Solenoid Lock Valve		
Coil resistance:	8.0Ω @ 70°F. ±15%	30Ω @ 70°F. ±15%
Ampere:	1.5A	0.8A
Coil nut torque: 3-4.5 lb-ft max.		
Valve cartridge torque: 18.5-22 lb-ft max.		
Digital Cycle Counter		
la sutura lta sa	4V - 30V	4V - 30V
Input voltage	5	-
Ampere	<	2mA
	<	2mA

OPTIONS OPTIONAL LIFTGATE COMPONENTS

	1
MISCELLANEOUS KITS	PART NO.
FRAMELESS TRAILER BRACKET, MOUNTING, 102" WIDE	282970-01
FRAMELESS TRAILER BRACKET, MOUNTING, 102" WIDE (GALVANIZED)	282970-01G
FRAMELESS TRAILER BRACKET, MOUNTING, 96" WIDE	282970-02
FRAMELESS TRAILER BRACKET, MOUNTING, 96" WIDE (GALVANIZED)	282970-02G
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS (GALVANIZED)	282372-01G
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS, NO FINISH (HAS RUST PREVENTIVE COAT)	282372-03
HAND PUMP, GPT SERIES	296075-01
TRAFFIC CONES	268893-01
HARDWARE EXTENSION PLATE, 96" & 102"	283257-02
EXTENSION PLATE, 14" X 102" (1/4" THICK), GALVANIZED	287095-04G
EXTENSION PLATE, 14" X 102" (3/8" THICK), GALVANIZED	287095-14G
CAB CUT OFF SWITCH	298905-01
ELECTRICAL KITS	
CIRCUIT BREAKER (150 AMP)	251576
HAND HELD CONTROL, TUKS, 120" LG (OUTSIDE VEHICLE)	263260-13
HAND HELD CONTROL, TUKS, 240" LG (OUTSIDE VEHICLE)	263260-14
HAND HELD CONTROL, TUK-A-WAY (INSIDE VEHICLE)	280570-07
STREET SIDE CONTROL, GPT	297116-01
DUAL SWITCH CONTROL, GPT	297115-01
PLATFORM FLASHING LIGHTS, TOP MOUNT, GPT	297611-01
PLATFORM FLASHING LIGHTS, SIDE MOUNT, GPT	297611-02
REAR END PROTECTION KITS FOR TRUCKS AND TRAILERS	
UNDERRIDE, 90", GPT-4 & GPT-5 (GALVANIZED) NOTE: COMPLIES WITH CANADIAN MVS REGULATIONS & FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-01G
UNDERRIDE, 95", GPT-4 & GPT-5 (GALVANIZED) NOTE: COMPLIES WITH CANADIAN MVS REGULATIONS & FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-02G
UNDERRIDE, 90", GPT-25 & GPT-3 (GALVANIZED) NOTE: COMPLIES WITH FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-03G
UNDERRIDE, 95", GPT-25 & GPT-3 (GALVANIZED) NOTE: COMPLIES WITH FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-04G
ICC BUMPER (GALVANIZED) NOTE: COMPLIES WITH OMCS REQUIREMENTS	283270-01G
DUAL STEP DOCK BUMPER KITS WITH BUMPERS	
DUAL STEP (GALVANIZED) WITH 14" LG. RUBBER BUMPERS (2.5"W X 3"H X 14"LG)	288705-01G
DUAL STEP (GALVANIZED) WITH 13.5" LG. RUBBER BUMPERS (2.9"W X 1.5"H X 13.5"LG)	288705-02G
DUAL FLEX STEP (GALVANIZED),14" LG. RUBBER BUMPER	288705-21G
DUAL FLEX STEP (GALVANIZED),13.5" LG. RUBBER BUMPER WITH FLEXIBLE WIRE ROPE LOWER STEP & 2.9"W X 1.5"H X 13.5"LG. POLYETHYLENE BUMPERS	288705-22G
DUAL STEP W/LIGHT (GALVANIZED), 14" LG. RUBBER BUMPERS	288705-31G
DUAL STEPS W/LIGHT (GALVANIZED), 13.5" LG. POLYETHYLENE BUMPERS	288705-32G
DUAL STEP (GALVANIZED), CURB SIDE, 14" LG. RUBBER BUMPERS	288705-03G
DUAL STEP (GALVANIZED), CURB SIDE, 13.5" LG. POLYETHYLENE BUMPERS	288705-04G

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OPTIONAL LIFTGATE COMPONENTS - Continued

DUAL STEP DOCK BUMPER KITS WITH BUMPERS - CONTINUED	
DUAL FLEX STEP (GALVANIZED), STREET SIDE, NO STEPS, 14" LG. RUBBER BUMPERS	288705-23G
DUAL FLEX STEP (PAINTED), STREET SIDE, NO STEPS, 13.5" LG. RUBBER BUMPERS	288705-24G
DUAL STEP W/LIGHT, (GALVANIZED) CURB SIDE, 14" LG. RUBBER BUMPERS	288705-33G
DUAL STEP W/LIGHT, (GALVANIZED) CURB SIDE, 13.5" LG. RUBBER BUMPERS	288705-34G
DUAL STEP DOCK BUMPER KITS WITHOUT BUMPERS	
DUAL STEP (GALVANIZED), NO BUMPERS	288705-05G
DUAL STEP (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-06G
DUAL FLEX STEPS (GALVANIZED), NO BUMPERS	288705-25G
DUAL STEP FLEX STEPS (GALVANIZED), STREET SIDE, NO BUMPERS	288705-26G
DUAL STEPS WITH OVAL LIGHT (GALVANIZED), NO BUMPER	288705-35G
DUAL STEP W/LIGHT (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-36G
BUMPER KITS	
PLASTIC 13.5" BUMPER (2.9"W X 1.5"H x 13.5"LG.)	288707-01
RUBBER 14" BUMPER (2.5"W X 3"H X 14"LG.)	288706-01
BUMPER, EXTENSION PLATE, POLYETHELENE, 3/8"	210884-01

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MAXON® PRE-DELIVERY INSPECTION FORM

Important! This pre-delivery checklist is to aid the installer in confirming the proper installation of this Maxon product. It is not a comprehensive list and does not replace the use of the installation manual. The installer is responsible for following all instructions in the installation manual.

Model:	Date:
Serial Number:	Technician:
Pre-Installation Inspection: □ Correct model □ Correct capacity □ Correct platform size □ Correct options	 Electrical cable connections are tight & secured clear of moving parts & sharp edges. Operation Inspection:
 Correct platform size in concert options Correct manuals & decals Structural Inspection: Liftgate is centered on vehicle & mounted per dimensions in this manual. Pump box is mounted securely. All installation welds are done per instructions 	NOTE: The following times are for 55" bed height, aluminum platform and flip- over, Exxon Univis HVI-13 hydraulic fluid, & temperature at 70°F. Times are for reference only and may vary for larger platforms, smaller platforms, or temperature changes.
in this manual. All roll pins, bolts & fasteners on Liftgate	 Liftgate operates correctly using all main & optional control switches.
 are tight. All hardware & fasteners, used to secure Liftgate to vehicle, are tight. Ensure platform ramp touches ground when 	 GPT-25 or -3 only □ Unloaded platform lowers in 6 to 10 sec. □ Unloaded platform raises in 8 to 12 sec.
 shackles are 1" above ground, and platform & flipover are level & touching the ground. Check for 5/8" gap between platform and extension plate. 	 GPT-4 □ Unloaded platform lowers in 7 to 11 sec. □ Unloaded platform raises in 9 to 13 sec.
 Check vehicle floor to top of mainframe tube dimension. Hydraulic Inspection: 	GPT-5 □ Unloaded platform lowers in 10 to 14 sec. □ Unloaded platform raises in 12 to 16 sec.
 Fluid at correct level (See CHECKING HYDRAULIC FLUID step in this manual). No leaks from hydraulic fittings in pump box. No leaks from hydraulic line connections. 	□ All GPT: Unloaded platform raises and lowers evenly. At the extension plate, platform must not be more than 1/8" uneven, from side to side.
 Electrical Inspection: Power/charge plug, terminals and wiring harness connections are clean & tight. Individual wire connections are tight. 	 All GPT: Platform stores securely under vehicle body. Cycle counter indicates all up & down cycles. Decals are in correct location and legible.
 Circuit breaker (150A) installed in battery box (if equipped) or by truck/tractor battery. Batteries are fully charged, all cable. Solenoid wiring connections are tight. 	 Verify all lights are operational Platform lights turn ON when platform is unfolded, and turn OFF when platform is stowed. Taillights, stop lights, turn lights, and backup