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SUMMARY OF CHANGES: M-20-09, REVISION C

PAGE	DESCRIPTION OF CHANGE			
COVER	Updated REV. and date of release.			
65, 67	Removed off time delay module from diagram for POWER DOWN MOTOR & SO- LENOID OPERATION and ELECTRICAL SCHEMATIC.			
66 Changed hydraulic lock valves to bidirectional lock valves on POWER DOW DRAULIC SCHEMATIC. 71, 73 Removed off time delay module from diagram for POWER DOWN MOTOR LENOID OPERATION and ELECTRICAL SCHEMATIC WITH MAX ECU. 72 Changed hydraulic lock valves to bidirectional lock valves on POWER DOW DRAULIC SCHEMATIC WITH MAX ECU.				

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 asphalt, concrete or compacted dirt surface that will support 1500 lb. 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



PARTS BOX A OR C

LIFTGATE COMPONENTS FIG. 7-1

MXT-25 & MXT-33 INSTALLATION PARTS BOXES

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX A	1	297502-01
1	SPRING CLIP	10	050079
2	PLASTIC TIE, 12-14"	2	206864
3	#10 LOOM CLAMP	2	801681
4	SCREW TAPPING #10 X 1/2" LG.	2	030458
5	CABLE ASSEMBLY, 2 GA, 48" LG.	1	251871-26
6	CABLE ASSEMBLY, 175 AMPS, 38' LG.	1	264422
7	CAP SCREW, 5/16"-18 X 3/4" LG, GR8	1	900009-3
8	CABLE ASSEMBLY, 2 GA, 49-3/4" LG	1	268226-11

CONTENTS OF PARTS BOX A TABLE 8-1

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX B	1	297049-01
1	TOGGLE SWITCH ASSEMBLY	1	296855-01
2	HEX NUT, 1/2"-13	2	901011-9
3	HEX HEAD CAP SCREW, 1/2"-13 X 1-1/2" LG.	2	900035-3
4	INSTALLATION BRACKET	2	269462-01
5	SCREW, SELF TAPPING, #10-24 X 1-1/2" LG.	2	900057-7
6	LUG, 2 GA COPPER	1	906497-02

CONTENTS OF PARTS BOX B TABLE 8-2

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX C	1	297502-02
1	SPRING CLIP	20	050079
2	PLASTIC TIE, 12-14"	4	206864
3	GROMMET, 1" DIAMETER, 2 HOLES	1	266428-09
4	CABLE ASSEMBLY, 175 AMP 38' LG.	1	264422
5	GROUND CABLE ASSEMBLY, 2 GA X 38' LG.	1	269191-01
6	SCREW TAPPING #10 X 1/2" LG.	2	030458
7	#10 LOOM CLAMP	2	801681
8	CAP SCREW, 5/16"-18 X 3/4" LG, GR8	1	900009-3
9	CABLE ASSEMBLY, 2 GA, 49-3/4" LG	1	268226-11

CONTENTS OF PARTS BOX C TABLE 8-3

MXT-25 & MXT-33 MANUALS & DECALS

To find maintenance and parts information for your **MXT-25 or MXT-33 Liftgate**, go to www.maxonlift.com. Click the **PRODUCTS**, **TUK-A-WAY** and **MXT-25/MXT-33** buttons. Open the **Maintenance Manual** in the **PRODUCT DOCUMENTATION** window. For parts, click on the **PARTS PORTAL**, **TUK-A-WAY** and **MXT-25/MXT-33** buttons.

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	MXT-25 MANUAL & DECAL KIT	1	283770-01
1	INSTALLATION MANUAL	1	M-20-09
2	OPERATION MANUAL	1	M-20-10
3			220382
			285800-05
			299038-01
	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	282522-01
			282847-02
			298634-01
			299348-09

MXT-25 STANDARD KIT TABLE 9-1

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	MXT-33 MANUAL & DECAL KIT	1	283770-02
1	INSTALLATION MANUAL	1	M-20-09
2	OPERATION MANUAL	1	M-20-10
3			220388-02
			285800-05
			299038-01
	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	282522-01
			282847-02
			298634-01
			299348-09

MXT-33 STANDARD KIT TABLE 9-2

NOTE: Maximum and Minimum Operating Bed Height for Standard Platforms:

- Maximum bed height for MXT-25 and MXT-33 Liftgates on low bed vehicles is 46" (unloaded). Minimum bed height on low bed vehicles is 38" (loaded). See MXT-25 and MXT-33 LOW BED CLEARANCES, FIGS. 10-1 and 10-1A.
- If swing door latches interfere with fit of extension plate, do not install this Liftgate on vehicle bodies equipped with **swing open doors**.

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

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

1. Check for correct clearances on vehicle (FIGS. 10-1 and 10-1A) to prevent interference between vehicle and Liftgate.





VEHICLE REQUIREMENTS - Continued

CAUTION

- To prevent platform from being damaged, make sure vehicle frame is cut correctly. If the cutouts are incorrect, platform may hit vehicle frame or underbody when stowing the Liftgate.
- Installer is responsible for ensuring that vehicle body and frame modifications do not adversely affect the integrity of the body and frame.

NOTE: The dimensions, shown in the illustration below, are maximums except as indicated.

NOTE: The platform cutout area shown below applies to trucks. If the rear sill dimension is taller than 5", it may need to be modified. Check with body manufacturer before modifying the rear sill and for best practices to reinforce cutout areas in the rear sill.

2. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in **FIG. 11-1**.



FIG. 11-1

CENTER OF MASS



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: MXT-25 & MXT-33 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. 13-1 and 14-1.

REAR SILL - HOLE LOCATIONS FOR 96" WIDE VEHICLE FIG. 13-1



FIG. 14-1

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. 15-1** 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. 15-1. 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.



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.
 - 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. Before welding extension plate to vehicle body, make sure top surface of extension plate is flush with floor of vehicle body. Weld the extension plate to vehicle body sill as shown in FIGS. 16-1 and 17-1.



FIG. 16-1



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH FIG. 17-1

- **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. Make sure dowel on installation brackets is pushed snug against extension plate when tightening screws. The extension plate has bolt holes for bolting on the installation brackets provided in parts box.
- 2. Bolt 2 installation brackets (parts box items) on the extension plate as shown in **FIG. 17-2**. Tighten hex nuts securely.



FIG. 17-2

STEP 2 - WELD LIFTGATE TO VEHICLE

NOTE: MXT-25 and MXT-33 Liftgates are equipped with mounting plates that are bolted to the main frame. Liftgates are shipped at a standard distance of 34-1/4" between mounting plates. For narrower chassis, the RH and LH plates may be unbolted from the main frame and bolted on the opposite side. Distance is 33-3/4" between plates.

If necessary, unbolt mounting plates from main frame (FIGS. 18-1 and 18-2). Then, bolt on opposite side (FIGS. 18-1, 18-2 or 22-1). Torque mounting plate nuts and bolts 220 - 240 lb-ft.



FIG. 18-2

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

1. Unfold the platform and flipover (FIG. 19-1).



PLATFORM & FLIPOVER UNFOLDED FIG. 19-1

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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

ACAUTION

To prevent damage to the flipover, NEVER hoist the Liftgate by the flipover as shown in FIG. 20-2. Hoist the Liftgate by the platform only as shown in FIG. 20-1.

 Make sure hoist is set up the correct way (FIG. 20-1). Place a "C"-clamp on each side of platform as shown in FIG. 20-1. (Clamps prevent hoist chain from slipping off platform.) Place chain all around platform (FIG. 20-1).



CORRECT WAY TO HOIST LIFTGATE FIG. 20-1

3. Hoist the Liftgate. Then, place floor jack under main frame (FIG. 20-1). Jack the Liftgate into position. Make sure vehicle floor is horizontal, pins are lined up, and that the platform is pushed tight against dowels of the installation brackets (FIG. 20-1).



FIG. 20-2

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.

4. Clamp both LH and RH mounting plates to vehicle frame. Weld the mounting plates to vehicle frame as shown in **FIG. 21-1**.



FIG. 21-1

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.



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(800) 227-4116 FAX (888) 771-7713 90670 CA. Santa Fe Springs, MAXON[®] 11921 Slauson Ave.

NOTE: The hanger brackets for the battery box frame can either be bolted or welded to the cross members of the vehicle body.



BOLTING FRAME HANGER BRACKETS TO VEHICLE CROSS MEMBERS FIG. 24-2

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.



A WARNING

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. 26-1** or 24 volt power as shown in **FIG. 26-1**.

GROUND CABLE TO PUMP BOX OR COMMON



FIG. 26-1



FOR 24 VOLT POWER FIG. 27-1

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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.



BATTERY BOX ASSEMBLY (REAR VIEW SHOWN) FIG. 28-1



FIG. 29-1

STEP 4 - RUN POWER CABLE

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



STEP 4 - RUN POWER CABLE - 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. 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.

 Clip fused power cable to vehicle chassis with fuse nearest the vehicle battery, as shown in FIG. 31-1. Keep enough cable near the battery to reach the positive terminal without straining cable (after connection). Run cable to pump box on Liftgate. 90670 (800) 227-4116 FAX (888) 771-7713

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STEP 5 - CONNECT POWER CABLE

1. Unbolt and remove pump cover (FIG. 32-1).



STEP 5 - CONNECT POWER CABLE - Continued

NOTE: Electrical lines must be run into pump box through sealing grommets **(FIG. 33-3)**. To ensure a good seal on hydraulic and electrical lines, never cut the sealing grommets.

- 2. Run fused power cable through bottom grommet on pump mounting plate (FIG. 33-3).
- On the bare wire end of fused power cable, keep enough length to attach copper terminal lug and reach starter solenoid without putting tension on cable (after connection) (FIG. 33-1). Measure (if needed) and then cut excess cable from bare wire end of cable. Put heat shrink tubing (parts box) (FIG. 33-1) on the end of the cable (leave room for terminal lug). Crimp copper terminal lug (from parts box) on the fused power cable and shrink the heat shrink tubing (FIG. 33-2).
- 4. Form a drip loop on the fused power cable where it enters the grommet from outside the pump mounting plate (FIGS. 33-3).

CAUTION

Do not over-tighten the terminal nuts on starter solenoid. For the load terminals, torque nuts to 35 lb-in max. Torque the nuts on #10-32 control terminals 10-15 lb-in.

Remove hex nut and lock washer from battery terminal post on the starter solenoid. Connect the fused power cable to the starter solenoid as shown in FIG. 33-3. Reinstall and tighten lock washer and hex nut. Torque hex nut to 30-35 lb-in maximum.



TYPICAL FUSED POWER CABLE CONNECTION (GRAVITY DOWN PUMP SHOWN) FIG. 33-3

STEP 6 - CONNECT GROUND CABLE

NOTE: Electrical lines must be run into pump box through sealing grommets **(FIG. 34-1A)**. To ensure a good seal on the electrical lines, never cut the sealing grommets.

NOTE: To ensure power unit is correctly grounded, connect 2 gauge ground cable to grounding connection on pump.

- Insert external ground cable (parts box) through grommet on pump mounting plate (FIGS. 34-1 and 34-1A).
- 2. Form a drip loop on the ground cable where it enters the grommet from outside the pump mounting plate (FIG. 34-1B).
- Bolt ground cable to ground connection on pump using existing bolt (FIGS. 34-1 and 34-1B).



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BOLT TERMINAL LUG (EXTERNAL GROUND CABLE) ORIP LOOP GROUND CONNECTION

BOLTING GROUND CABLE TO PUMP FIG. 34-1B

STEP 6 - CONNECT GROUND CABLE - Continued

NOTE: If there is a grounding point on the frame, use it to connect ground cable. Then, skip the step for drilling a hole.

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

- 4. Extend the ground cable to reach vehicle frame (FIG. 35-1) 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. 35-1).
- 6. Bolt the ground cable terminal lug to vehicle frame as shown in **FIG. 35-1**.
- 7. To prevent corrosion, paint or use galvanized spray on bare metal area (FIG. 35-1).







STEP 7 - INSTALL CONTROL SWITCH


STEP 7 - INSTALL CONTROL SWITCH - Continued

NOTE: Electrical lines must be run into pump box through sealing grommets **(FIGS. 37-1, 37-2, 38-1 and 38-2)**. To ensure a good seal on the electrical lines, never cut the sealing grommets.



STEP 7 - INSTALL CONTROL SWITCH - Continued



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 oil. Use correct oil for climate conditions.
 +50 to +120 Degrees F - Grade ISO 32
 Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606
 See TABLES 40-1 & 40-2 for recommended brands of ISO 32 & ISO 15 oils.

POWER UNIT

(REF)

NYLON NUT.

5/16"-18

(2 PLACES)

PUMP COVER

FLAT WASHER,

5/16"

(2 PLACES)

UNBOLTING PUMP COVER FIG. 39-1

HOLDER FLAT (2 PLACES)

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- 1. Unbolt and remove pump cover (FIG. 39-1).
- 2. Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, or platform at vehicle bed height, level should be as shown in **FIG. 39-2**.



CAUTION

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

 Bolt on the pump cover as shown in FIG. 39-1. Torque the bolts (cap screws) to 10-14 lb-in.



POWER UNIT FLUID LEVEL FIG. 39-2

CAP SCREW.

5/16"-18

(2 PLACES)

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 40-1

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 40-2

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STEP 9 - CONNECT POWER CABLE TO BATTERY

NOTE: MAXON recommends using dielectric grease on battery cable connections. **POSITIVE (+)** 1. Remove nut from negative (-) bat-90670 (800) 227-4116 FAX (888) 771-7713 **BATTERY CABLE** tery terminal. Disconnect negative NUT (-) battery cable (FIG. 41-1). **POSITIVE (+) BATTERY TERMINAL NEGATIVE (-) BATTERY CABLE NEGATIVE (-) BATTERY TERMINAL** BATTERY 2. Remove nut from positive (+) battery terminal (FIG. 41-1). **DISCONNECTING (-) BATTERY CABLE** FIG. 41-1 NUT Santa Fe Springs, CA. FUSED (+) CABLE 3. Connect fused positive (+) cable POSITIVE (+) to positive (+) battery terminal **BATTERY TERMINAL** (FIG. 41-2). Then, reinstall nut on positive (+) battery terminal (FIG. 41-2). BATTERY AXON[®] 11921 Slauson Ave. **CONNECTING FUSED (+) CABLE** FIG. 41-2 4. Reconnect negative (-) battery cable to negative (-) battery terminal (FIG. 41-3). Then, reinstall **NEGATIVE (-)** TTERY TERMINAL nut on negative (-) battery terminal (FIG. 41-3). NUT **NEGATIVE (-) BATTERY CABLE** BATTERY RECONNECTED BATTERY CABLES FIG. 41-3

CAUTION

Do not fully pressurize the system in this step. Fully pressurize the system and check for hydraulic leaks after Liftgate is fully welded.

- 1. Push control switch to UP position and hold just enough time to pressurize hydraulic system. Release control switch. Hydraulic system is ready.
- 2. Remove floor jack and hoist supporting Liftgate (FIG. 42-1).







FIG. 42-2

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NOTE: To operate Liftgate, locking brackets must be removed from cylinders.

4. Remove locking brackets from LH and RH cylinder (FIG. 43-1).



FIG. 43-1

5. Unbolt and discard knuckle down bracket locking bolts from LH and RH sides of Liftgate (FIGS. 44-1 and 44-1A).



UNBOLTING KNUCKLE DOWN BRACKET LOCKING BOLTS (RH SIDE SHOWN) FIG. 44-1

NOTE: Correct any interference problems before continuing with installation.

 Raise platform to bed height (FIG. 45-1). Then, lower platform to the ground (FIG. 45-2). Look for any interference between liftgate and vehicle as platform is raised and lowered.



RAISING PLATFORM FIG. 45-1

NOTE: If there is air in the hydraulic fluid, allow the air to dissipate before raising platform.

7. If the platform lowers with a "jerking" motion, bleed air from the hydraulic system by doing the following. Push the control switch to the DOWN position until you hear air escaping into the hydraulic fluid reservoir. Then, raise the platform (FIG. 45-1). Repeat this step until there is no air left in the system and platform lowers smoothly (FIG. 45-2).



LOWERING PLATFORM FIG. 45-2

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





FIG. 46-1

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

9. Ensure top surface of platform SURFACES FLUSH and extension plate are flush at the RH and LH sides of platform (FIGS. 47-1 and 47-2). The maximum allowable height PLATFORM difference is 1/8" at the LH and 1/8" (MAX) RH sides, and 1/4" from side to side across the width of the platform. **EXTENSION** PLATE DIFFERENCE IN HEIGHT FOR TOP OF PLATFORM & EXTENSION PLATE (RH VIEW) FIG. 47-1 SURFACES FLUSH PLATFORM 1/8" (MAX) EXTENSION PLATE DIFFERENCE IN HEIGHT FOR TOP OF PLATFORM & EXTENSION PLATE (LH VIEW) FIG. 47-2

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STEP 11 - ADJUST PLATFORM OPENER

To adjust openers, remove cap screw and hex nut from opener bracket (FIG. 48-1). Rotate opener assembly to the correct hole position (FIG. 48-2 and TABLE 48-1). Reinstall cap screw and nut.



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NOTE: Hole positions are approximate and may have to be adjusted up 1 hole or down 1 hole for best opener function on your vehicle.

TRUCK BED HEIGHT	HOLE NUMBER
38" - 43"	1
43" - 44"	4
44" - 45"	5
45" - 46"	6

BOLT HOLE CHART FOR 38"- 46" BED HEIGHTS (24" + 24" PLATFORMS) TABLE 48-1



STEP 12 - ADJUST PLATFORM (IF REQUIRED)

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

 With the platform and flipover unfolded, raise platform to bed level (FIG. 49-1). Measure how much the outboard edge of platform rises above floor level (FIG. 49-1). The outboard edge must be 1/2" to 2" above floor level (FIG. 49-1). If indication is correct, Liftgate is installed correctly and no adjustment is needed. If the outboard edge is more than 2" above floor level, turn both RH and LH platform adjustment bolts counter-clockwise until the platform edge is within specification (FIG. 49-2).



STEP 12 - ADJUST PLATFORM (IF REQUIRED) -Continued

 If the tip of the platform is less than 1/2" above floor level (FIG. 50-1), turn both RH and LH platform adjustment bolts clockwise until the platform tip is 1/2" to 2" above floor level (FIGS. 50-1 and 50-2).



ADJUSTING PLATFORM (IF TOO LOW) (RH ADJUSTMENT BOLT SHOWN) FIG. 50-2

STEP 13 - FINISH WELDING LIFTGATE TO VEHICLE



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STEP 14 - BOLT OPTIONAL STEPS TO EXTENSION PLATE

1. Lower platform to the ground (FIG. 52-1).

battery.



STEP 14 - BOLT OPTIONAL STEPS TO EXTENSION PLATE - Continued

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. 53-1). Tighten **FLANGE LOCK NUT** bolts 1, 2, 3 and 4 in the numbered (2 PLACES) order shown in FIG. 53-1. Then, torque PART OF each bolt and lock nut to 105 lb-ft in **EXTENSION** the same order. PLATE 0 05 B---()) Ø Ø **CARRIAGE BOLT,** Ø 3 1/2"-13 (2 PLACES) **@**2 FRAME BOLT, 0 1/2" X 1-1/2" LG LOCK NUT (2 PLACES) (2 PLACES) LH STEP **FLAT WASHER** (2 PLACES) **BOLTING STEP TO EXTENSION PLATE** (LH DUAL STEP SHOWN) FIG. 53-1

STEP 14 - BOLT OPTIONAL STEPS TO EXTENSION PLATE - Continued



- FIG. 54-1
- 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. 54-1).
- Ensure slotted hole in the step support is lined up with the hole on the step (FIG. 54-1). Then, bolt the support to step (FIG. 54-1). Torque the lock nuts (FIG. 54-1) to 105 lb-ft.

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STEP 14 - BOLT OPTIONAL STEPS TO EXTENSION PLATE - Continued

- **9.** Repeat instructions **3 through 8** for RH step. Use the RH step assembly (Kit item).
- Reconnect power to the pump by reconnecting positive (+) and negative (-) cables to battery (FIG. 56-1). Reinstall and tighten nut when each battery cable is reconnected.



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.

ATTACH DECALS: MXT-25 & MXT-33

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.

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



FIG. 58-1

ATTACH DECALS - Continued





Always stand clear of

F

platform area.

DECAL SHEET P/N 282522-01 FIG. 59-1

MODEL	DECAL P/N	CAPACITY
MXT-25	220382	2500 POUNDS [1134 KG]
MXT-33	220388-02	3300 POUNDS [1500 KG]

CAPACITY DECALS TABLE 59-1

DECALS & PLATES



FIG. 60-1

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TOUCHUP GALVANIZED FINISH

CAUTION

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

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 OPERATION (GRAVITY DOWN)



FIG. 62-1

POWER UNIT MOTOR & SOLENOID OPERATION					
LIFTGATE		SOLENOID OPERATION (✓ MEANS ENERGIZED)			
FUNCTION	PORT	MOTOR	VALVE "S1"	LOCK VALVE	
RAISE	C1	\checkmark	-	-	
LOWER	51	-	\checkmark	\checkmark	
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC					

TABLE 62-1

SYSTEM DIAGRAMS - Continued HYDRAULIC SCHEMATIC (GRAVITY DOWN)



FIG. 63-1

SYSTEM DIAGRAMS - Continued ELECTRICAL SCHEMATIC (GRAVITY DOWN)





SYSTEM DIAGRAMS - Continued PUMP & MOTOR SOLENOID OPERATION (POWER DOWN)



TABLE 65-1

SYSTEM DIAGRAMS - Continued HYDRAULIC SCHEMATIC (POWER DOWN)



FIG. 66-1

SYSTEM DIAGRAMS - Continued ELECTRICAL SCHEMATIC (POWER DOWN)



FIG. 67-1

SYSTEM DIAGRAMS - Continued PUMP & MOTOR SOLENOID OPERATION WITH MAX ECU MODULE (GRAVITY DOWN)

DIRECTION OF CONTROLLED FLOW

 Image: Classical stratule of the stratule of th

LIFTGATE		SOLENOID OPERATION (✓ MEANS ENERGIZED)			
FUNCTION	PORT	MOTOR	VALVE "S1"	LOCK VALVE	
RAISE	C1	\checkmark	-	-	
LOWER	CI	-	\checkmark	\checkmark	
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC					

TABLE 68-1

SYSTEM DIAGRAMS - Continued HYDRAULIC SCHEMATIC WITH MAX ECU MODULE (GRAVITY DOWN)



FIG. 69-1



FIG. 70-1

SYSTEM DIAGRAMS - Continued PUMP & MOTOR SOLENOID OPERATION WITH MAX ECU MODULE (POWER DOWN) "C2" "C1" DIRECTION OF CONTROLLED **FLOW** 0 6 STARTER SOLENOID MOTOR "S1" VALVE MAX ECU MODULE **POWER DOWN POWER UNIT** FIG. 71-1 **POWER UNIT MOTOR & SOLENOID OPERATION**

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LIFTGATE		SOLENOID OPERATION (✓ MEANS ENERGIZED)				
FUNCTION	PORT	MOTOR(S)	VALVE "S1"	LH LOCK VALVE	RH LOCK VALVE	
RAISE	C1	\checkmark	-	\checkmark	\checkmark	
LOWER	C2	\checkmark	\checkmark	\checkmark	\checkmark	
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC						

TABLE 71-1

SYSTEM DIAGRAMS - Continued HYDRAULIC SCHEMATIC WITH MAX ECU MODULE (POWER DOWN)



FIG. 72-1





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SYSTEM DIAGRAMS - Continued 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 Valve (S1)		
Coil resistance:	6.2Ω @ 70ºF. ±15%	35.8Ω @ 70°F. ±15%
Ampere:	1.6A	0.67A
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		
Operation voltage	4V - 30V	4V - 30V
Ampere	<2	2mA
Ground Cable		
Cap screw torque: 24 lb-ft max.		

OPTIONS OPTIONAL LIFTGATE COMPONENTS

MECHANICAL KITS	PART NO.	GD	PD
EXTENSION KIT 102", 13" EXTENSION PLATE, GALVANIZED	287095-03G	X	Х
ELECTRICAL KITS	PART NO.	GD	PD
IN CAB ON-OFF SWITCH	298905-01	X	Х
TUK-A-WAY DUAL CONTROL KIT	297115-01	X	Х
TUK-A-WAY DUAL CONTROL KIT, STREET SIDE	297116-01	X	Х
HAND HELD CONTROL ASSEMBLY, INSIDE	280570-07	X	
HAND HELD CONTROL ASSEMBLY, 120" LG.	263260-13	X	Х
HAND HELD CONTROL ASSEMBLY, 240" LG.	263260-14	X	Х
OVAL, 2 LIGHT MOUNTING FRAME BRACKET, GALVANIZED	282372-01G	Х	Х
CYCLE COUNTER	297620-01	X	Х
MISCELLANEOUS KITS	PART NO.	GD	PD
TRAFFIC CONES	268893-01	X	Х
EXTENSION PLATE HARDWARE KIT (96" & 102" W VEH)	283257-02	X	Х
LICENSE PLATE, TUK-A-WAY	299970-01	X	Х
LICENSE PLATE, WITHOUT LIGHT, TUK-A-WAY	299970-02	X	Х
STEP OPTIONS (42" TO 46" BED HEIGHT, 30" OVERALL STEP	HEIGHT)		
	,		
GALVANIZED DUAL STEP KITS WITH BUMPER	PART NO.	GD	PD
DUAL STEPS, 14" RUBBER BUMPERS	288705-01G	X	Х
DUAL STEPS, 13.5" RUBBER BUMPERS	288705-02G	X	Х
DUAL FLEX STEPS 14" RBR BUMPERS WITH FLEXIBLE WIRE ROPE LOWER STEP & 14" LG. RUBBER BUMPER	288705-21G	X	Х
DUAL FLEX STEPS WITH FLEXIBLE WIRE ROPE LOWER STEP & 13.5" LG. RUBBER BUMPER	288705-22G	x	х
DUAL STEPS W/ BRACKET FOR LIGHT AND 14" RUBBER BUMPERS	288705-31G	X	Х
DUAL STEPS W/ BRACKET FOR LIGHT AND 13.5" PLASTIC BUMPERS	288705-32G	X	Х
GALVANIZED DUAL STEPS WITH BUMPERS AND NO STEPS ON STREET SIDE	PART NO.	GD	PD
DUAL STEPS, STREET SIDE, NO STEPS, 14" BUMPER	288705-03G	X	Х
DUAL STEPS, STREET SIDE, NO STEPS, 13.5" BUMPER	288705-04G	X	Х
DUAL FLEX STEPS, STREET SIDE, NO STEPS, 14" BUMPER	288705-23G	X	Х
DUAL FLEX STEPS, STREET SIDE, NO STEPS, 13.5" BUMPER	288705-24G	X	Х
	288705-33G	X	Х
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 14" BUMPER		Х	Х
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 14" BUMPER DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 13.5" BUMPER	288705-34G		
	288705-34G PART NO.	GD	PD
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 13.5" BUMPER			PD X
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 13.5" BUMPER GALVANIZED DUAL STEPS WITHOUT BUMPERS	PART NO.	GD	
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 13.5" BUMPER GALVANIZED DUAL STEPS WITHOUT BUMPERS DUAL STEPS, NO BUMPERS	PART NO. 288705-05G	GD X	Х
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 13.5" BUMPER GALVANIZED DUAL STEPS WITHOUT BUMPERS DUAL STEPS, NO BUMPERS DUAL STEPS, STREET SIDE, NO STEPS, NO BUMPERS	PART NO. 288705-05G 288705-06G 288705-25G	GD X X	X X
DUAL STEPS, W/LIGHT STREET SIDE, NO STEPS, 13.5" BUMPER GALVANIZED DUAL STEPS WITHOUT BUMPERS DUAL STEPS, NO BUMPERS DUAL STEPS, STREET SIDE, NO STEPS, NO BUMPERS DUAL FLEX STEPS, NO BUMPERS	PART NO. 288705-05G 288705-06G	GD X X X	X X X

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OPTIONS OPTIONAL LIFTGATE COMPONENTS - CONTINUED

STEP OPTIONS (38" TO 42" BED HEIGHT, 21" OVERALL STEP	HEIGHT)	-	<u> </u>		
GALVANIZED SINGLE STEPS WITH BUMPERS	PART NO.	GD	PD		
SINGLE STEPS, 14" RUBBER BUMPERS	288705-11G	Х	X		
SINGLE STEPS, 13.5" PLASTIC BUMPERS	288705-12G	X	X		
GALVANIZED SINGLE STEPS WITH BUMPERS NO STEPS ON STREET SIDE	PART NO.	GD	PD		
SINGLE STEPS, STREET SIDE NO STEPS, 14" RUBBER BUMPERS	288705-13G	X	X		
SINGLE STEPS, STREET SIDE NO STEPS,13.5" PE BUMPERS	288705-14G	X	X		
GALVANIZED SINGLE STEPS WITHOUT BUMPERS	PART NO.	GD	PD		
SINGLE STEP KIT, NO BUMPERS	288705-15G	X	X		
SINGLE STEP KIT, STREET SIDE, NO STEPS, NO BUMPERS	288705-16G	Х	X		
GALVANIZED DUAL STEPS WITH BUMPERS & LIGHT CUTOUTS	PART NO.	GD	PD		
DUAL STEPS W/LIGHT, 14" RUBBER BUMPERS	288705-41G	X	X		
DUAL STEPS W/LIGHT, 13.5" PLASTIC BUMPERS	288705-42G	Х	Х		
GALVANIZED DUAL STEPS WITH BUMPERS & LIGHT CUTOUTS	PART NO.	GD	PD		
DUAL STEPS W/LIGHT, SS NO STEPS, 14" RUBBER BUMPERS	288705-43G	X	X		
DUAL STEPS W/LIGHT, SS NO STEPS, 14 ROBBER DOMPERS	288705-44G				
DUAL STEPS WILIGHT, SS NO STEPS, 13.5 PLASTIC BUMPERS	200705-44G				
GALVANIZED DUAL STEPS WITHOUT BUMPERS & LIGHT CUTOUTS	PART NO.	GD	PD		
DUAL STEPS W/LIGHT, NO BUMPERS	288705-45G	X	X		
DUAL STEPS W/LIGHT, NO BUMPERS	288705-46G	Х	Х		
BUMPERS KIT	PART NO.	GD	PD		
RUBBER BUMPER KIT, 14" BUMPERS (2.5"W X 3"H X 14" LG)	288706-01	X	X		
RUBBER BUMPER KIT, 13.5" PLASTIC BUMPERS (2.9"W X 1.5"H X 13.5" LG)	288707-01	Х	X		

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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.

M	Model: Date:			
Se	rial Number: Technician:			
Pr	e-Installation Inspection:	0	peration Inspection:	
□ □ St	Correct model Correct platform size Correct platform size Correct manuals & decals Correct manuals & decals		NOTE: The following times are for 46" bed height, aluminum platform and fli- pover, 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.	
	Pump box is mounted securely.		5 1 5 5	
	All installation welds are done per instructions in this manual.		optional control switches.	
	All roll pins, bolts & fasteners on liftgate are tight. All hardware & fasteners, used to secure			
	liftgate to vehicle body, are tight.		MXT-25 or MXT-33 Power Down only:	
	Ensure platform ramp touches ground when shackles are 1" above ground, and platform & flipover are level & touching the ground.		Unloaded platform lowers in 9 sec .	
Ну	draulic Inspection:		MXT-25 or MXT-33:	
	Fluid is 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		Unloaded platform raises and lowers evenly. At the extension plate, platform must not be more than 1/4 " uneven, from side to side.	
Ele	ectrical Inspection:		and fold platform is 40 lb-ft maximum.	
	Power/charge plug and terminals are clean & tight		Platform stores securely under vehicle body Cycle counter indicates total number of up and	
	Individual wire connections are tight		down cycles and adds 1 more count each time	
	Circuit breaker (150A) is installed in battery box (if equipped) or by truck/tractor battery. Batteries are fully charged, all cable		platform is raised and lowered. Decals in correct location and legible	
	connections are tight & tiedowns are tight.	V	erify all lights are operational	
	Solenoid wiring connections are tight. Wiring harness connections are tight. Electrical cable connections are tight & secured clear of moving parts & sharp edges.		For lights supplied by MAXON only) Platform lights turn ON when platform is unfolded, and turn OFF when platform is stowed.	