ML FCS MINE SPEC II

AUSTRALIAN STANDARD

OPERATOR'S

MANUAL

ALLMAND BROTHERS INC.

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PART NO. 104824 REVISED: JUNE 2013

RECORD IMPORTANT INFORMATION

Recording the equipment information will help, when placing an order for replacement parts and/ or decals.

Company Equipment No: _____

Unit model No: _____

Unit Vin: _____

Engine Model No: _____ **Serial No:** _____

Generator Model No: _____ **Serial No:** _____

Accessories: _____

_____

_____

⚠ WARNING

CALIFORNIA PROPOSITION 65

Diesel engine exhaust and some of its constituents are know to the State of California to cause cancer, birth defects, and other reproductive harm.

⚠ WARNING

CALIFORNIA PROPOSITION 65

Battery post, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hand after handling.

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INTRODUCTION

ABOUT THIS MANUAL

TAKE TIME TO READ THIS MANUAL THOROUGHLY

This instruction manual provides necessary instructions for the **ML FCS MINE SPEC II** light tower.

The information found in this manual is in effect at the time of printing. Allmand Bros Inc. may change contents without notice and without incurring obligation.

Any reference in this manual to left or right shall be determined by looking at the trailer from the rear.

If you are uncertain about any of the information in the manual, contact Allmand service department at 1-800-562-1373, for clarification.

⚠ WARNING

EXPOSURE HAZARD

Always wear personal protective equipment, including appropriate clothing, gloves, work shoes, and eye and hearing protection, as required by the task at hand.

NOTICE

Only use replacement parts specified. Other replacement parts may effect warranty coverage.

SAFETY DEFINITIONS

Safety statements are one of the primary ways to call your attention to potential hazards. Follow the precautions listed throughout the manual before operation, during operation and during periodic maintenance procedures for your safety, the safety of others and to protect the performance of equipment. Keep the decals from becoming dirty or torn and replace them if they are lost or damaged. Also, if a part needs to be replaced that has a decal attached to it, make sure to order the new part and decal at the same time.

This safety alert symbol appears with most safety statements. It means attention,

become alert, your safety is involved! Read and abide by the message that follows the safety alert symbol.

⚠ DANGER

Indicates a hazardous situation which, if not avoided, **will** result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, **could** result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, **could** result in minor or serious injury.

NOTICE

Indicates a situation which can cause damage to the equipment, personal property and/or the environment, or cause the equipment to operate improperly.

NOTE: provides key information to make procedures easier or clearer.

SAFETY PRECAUTIONS

There is not substitute for common sense and careful practices. This information contains general safety precautions and guidelines that must be followed to reduce risk to personal safety. Special safety precautions are listed in specific procedures. Read and understand all of the safety precautions before operating or performing repairs or maintenance. This safety section cannot cover every situation that may occur that is incidental to the use of the equipment.

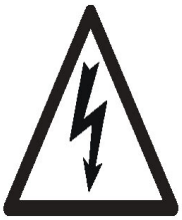
If you are uncertain about any of the information in the manual, contact Allmand service department at 1-800-562-1373, for clarification.

SAFETY

⚠ DANGER

The safety statements that follow have DANGER level hazards.

ELECTROCUTION HAZARD



- Always check overhead wires and obstructions before raising or lowering the light tower. Allow 10.6 m (35 feet) of clearance.
- High voltage is present when engine is running. Never attempt to service electrical components while engine is running.
- Do not operate the light tower if the insulation on the electrical cord or other electrical wiring is cut or worn or if bare wires are exposed. Repair or replace damaged wiring before starting the engine.

⚠ WARNING

The safety statements that follow have WARNING level hazards.

UNSAFE OPERATION HAZARD

- Never permit anyone to install or operate the equipment without proper training.
- Read and understand this Operator's Manual, the Engine Operator's Manual before operating or servicing the light tower to ensure that safe operating practices and maintenance procedures are followed.
- Safety signs and decals are additional reminders for safe operating and maintenance techniques.

FALL HAZARD

- Never carry riders on the equipment

MODIFICATION HAZARD

- Never modify the equipment without written consent of the manufacturer. Any modification can effect the safe operation of the equipment.

EXPOSURE HAZARD

- Always wear personal protective equipment, including appropriate clothing, gloves, work shoes, and eye and hearing protection, as required by the task at hand.

ROLLOVER HAZARD

- Do not raise, lower or use light tower unless all outriggers and jacks are positioned on firm ground.
- Never move or reposition the light tower while the light tower is extended in the vertical position.

EXPLOSION HAZARD

- While the engine is running or the battery is charging, hydrogen gas is being produced and can be easily Ignited. Keep the area around the battery well ventilated and keep sparks, open flame and any other form of ignition out of the area.
- Always disconnect the negative (-) battery cable before servicing equipment.
- Only use the starting procedure as described in the *Engine Operator's Manual* to start the engine.
- Never charge a frozen battery. Always slowly warm the battery to room temperature before charging.

SAFETY

FIRE AND EXPLOSION HAZARD

- Diesel fuel is flammable and explosive under certain conditions.
- Never use a shop rag to catch the fuel.
- Wipe up all spills immediately.
- Never refuel with the engine running.
- Store any containers containing fuel in a well ventilated area, away from any combustibles or sources of ignition.

⚠ WARNING

The safety statements that follow have WARNING level hazards.

EXHAUST HAZARD

- All internal combustion engines create carbon monoxide gas during operation and special precautions are required to avoid carbon monoxide poisoning.
- Never block windows, vents or other means of ventilation if the equipment is operating in an enclosed area.
- Always ensure that all connections are tightened to specifications after repair is made to the exhaust system.

ALCOHOL AND DRUG HAZARD

- Never operate the light tower while under the influence of alcohol or drugs, or when ill.

ENTANGLEMENT / SEVER HAZARD

- Always stop the engine before beginning service.
- If the engine must be service while it is operating, remove all jewelry, tie back long hair and keep hands, other body parts and clothing away from moving/rotating parts.
- Verify that all guards and covers are attached properly to the equipment before starting the engine. Do not start the engine if any guards are or covers are not properly installed on the equipment.
- Attach a “Do Not Operate” tag near the key switch while performing maintenance on the equipment.

PIERCING HAZARD

- Avoid skin contact with high pressure hydraulic fluid or diesel fuel spray caused by a hydraulic or fuel system leak such as a broken hydraulic hose or fuel injection line. High pressure hydraulic fluid or fuel can penetrate your skin and result in serious injury. If you are exposed to high pressure hydraulic fluid or fuel spray, obtain prompt medical treatment.
- Never check for a hydraulic fluid or fuel leak with your hands. Always use a piece of wood or cardboard.

FLYING OBJECT HAZARD

- Always wear eye protection when cleaning the equipment with compressed air or high pressure water. Dust, flying debris, compressed air, pressurized water or steam may injure your eyes.

COOLANT HAZARD

- Wear eye protection and rubber gloves when handling engine coolant. If contact with the eyes or skin should occur, flush eyes and wash immediately with clean water.

BURN HAZARD

- light fixtures and some of the engine surfaces become very hot during operation and shortly after shutdown.
- Keep hands and other body parts away from hot engine surfaces.
- Handle hot components, such as light fixtures, with heat resistant gloves.

⚠ CAUTION

The safety messages that follow have CAUTION level hazards.

TOOL HAZARD

- Always use tools appropriate for the task at hand and use the correct size tool for loosening or tightening equipment parts.

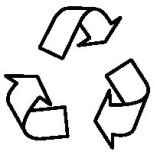
SLIP HAZARD

- Immediately clean up any spilled liquid on the shop floor.
- Clean up accumulated dirt and debris on the shop floor at the end of each shift.

NOTICE

The safety statements that follow have NOTICE level .

- Any part which is found defective as a result of inspection or any part whose measured value does not satisfy the standard or limit MUST be replaced.
- Always tighten components to the specified torque. Loose parts can cause equipment damage or cause it to operate improperly.



- Follow the guidelines of the EPA or other governmental agencies for the proper disposal of hazardous materials such as engine oil, diesel fuel and engine coolant.
- Only use replacement parts specified. Other replacement parts may effect warranty coverage.
- Clean all accumulated dirt and debris away from the body of the equipment and its components before you inspect the equipment or perform preventative maintenance procedures or repairs. Operating equipment with accumulated dirt and debris will cause premature wear of equipment components.
- Never dispose of hazardous materials by dumping them into a sewer, on the ground, or into groundwater or waterways.
- Retrieve any tools or parts that may have dropped inside of the equipment to avoid improper equipment operation.
- If any alert indicator illuminates during equipment operation, stop the engine immediately. Determine the cause and repair the problem before continuing to operate the equipment.

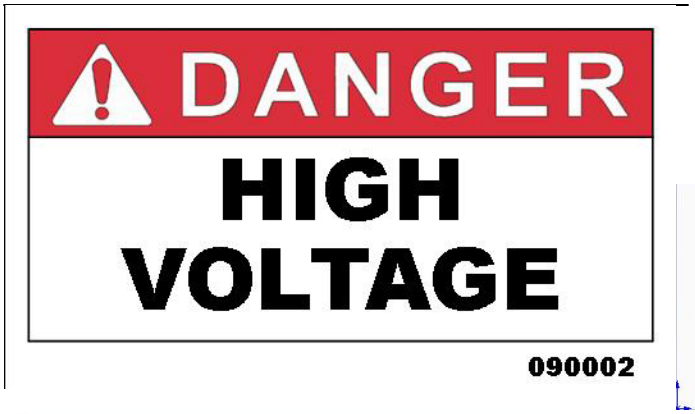
SAFETY LABELS

⚠ WARNING

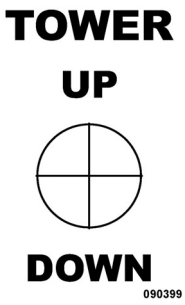
UNSAFE OPERATIONAL HAZARD

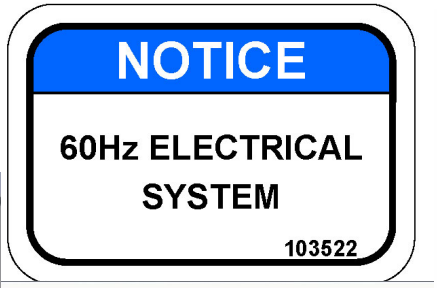
Always replace any safety and instruction decals that become damaged, painted or otherwise illegible.

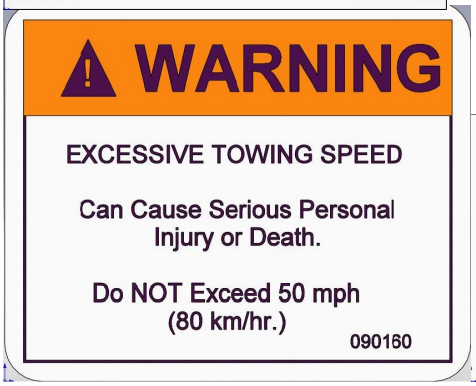
Refer to these representations of the safety warning decals used on the **ML FCS MINE SPEC II** light tower to insure correct ordering if replacement becomes necessary.



MEN







PREPARING THE UNIT FOR DELIVERY OR RENTAL

The **ML FCS MINE SPEC II** light tower should be operated properly and maintained properly for maximum service life. Never deliver or put machine into service with known defects or missing instructions or decals. Always instruct the customer in proper operation and safety procedures as described in this *Operator's Manual.* Always provide the manual with the equipment for proper and safe operation.

CHECK LIST

- Visually inspect the equipment to ensure that all instructions and decals are in place and legible.
- Inspect the light tower locking bar latch assembly which locks the light tower in the vertical position for proper operation.
- Check the hitch assembly and safety chains.
- Check the outriggers and jacks to make sure they operate properly.
- Inspect the light assemblies for damage and test for proper operation.
- Inspect the electrical wiring for signs of damage.

⚠ DANGER

ELECTROCUTION HAZARD

Do not operate the light tower if the insulation on the electrical cord or other electrical wiring is cut or worn or if bare wires are exposed. Repair or replace damaged wiring before starting the engine.

- Check ground rod cable and the ground lug. Make sure they are clean, undamaged and functional.
- Inspect tires to insure good condition and proper inflation.
- Check engine oil, fuel, engine coolant levels and hydraulic fluid levels, if equipped.
- Check to make sure the *Light Tower Operator's Manual, Engine Operator's Manual and the Generator Operator's Manual* are with the equipment.
- Inspect the machine physically for damage and repair if necessary.

NOTICE

See appropriate section of the Engine Operator's Manual and generator Operator's Manual for additional pre-operation checks.

After completing the pre-operation check list, operate the tower through a complete operation cycle, following the operating instructions in the **ML FCS MINE SPEC II** *Operator's Manual.*

⚠ WARNING

UNSAFE OPERATION HAZARD

Never permit anyone to install or operate the equipment without proper training.

ALWAYS READ AND UNDERSTAND THE INSTRUCTIONS FIRST.

TRAILERING, TRANSPORTING AND LIFTING

BEFORE TRAILERING OR TRANSPORTING

Before trailering, transporting or lifting, read *Safety* on page 7.

Perform the following before trailering / transporting:

- Lower the light tower and shut down the tower lights and the engine; See *Shutdown-prepare for trailering* on page 13.
- Visually inspect the trailer and equipment for damage. Repair or replace any components as needed before trailering.

NOTICE

Visually inspect the light mounting brackets and hardware for loose fasteners or damaged brackets. Repair any problems before trailering.

- Check the trailer lights for proper operation
- Inspect the tires to insure good condition and proper inflation.
- Inspect trailer springs and undercarriage for damage or loose parts.
- Check the hitch assembly and safety chains.
- Ensure the outriggers and jacks are properly stowed.
- Ensure the ground rod and cable are disconnected and properly stowed.
- Clean any spills from inside the trailer bilge area around the outside of the trailer; they may have occurred during operation.
- Ensure all compartment doors are closed and securely locked.

SHUTDOWN - Prepare for trailering

1. With the tower lights off, lower the light tower to the full DOWN position; See *Raising and lowering the light tower* on page 32.

NOTICE

See appropriate section of the Engine Operator's Manual and generator Operator's Manual for additional pre-operation checks.

2. Turn the engine off . Refer to your *Engine Operator's Manual* for stopping procedure.
3. Adjust the light bar and light fixtures for trailering; See *Tower Lights-Stowage for trailering* on page 14.
4. Disconnect the ground rod cable from the ground lug. Remove the ground rod from the earth and clean and secure the ground rod and cable in the trailer.
5. Close, secure and lock all compartment doors.

NOTICE

Be sure each outrigger jack is securely latched in transporting position by installing the outrigger lock pins before transporting.

7. Raise each outrigger stabilizer jack and rotate into trailering position (horizontal with outrigger bar).
8. Retract each outrigger bar and secure in the stowed position with latch pin.

VERTICAL TOWER LIGHTS - Stowage for Trailering

The light bar and fixtures must be stowed before trailering or transporting.

1. Ensure lights are off and tower is lowered to the full DOWN position; See *Raising and Lowering the Light Tower* on page 32.

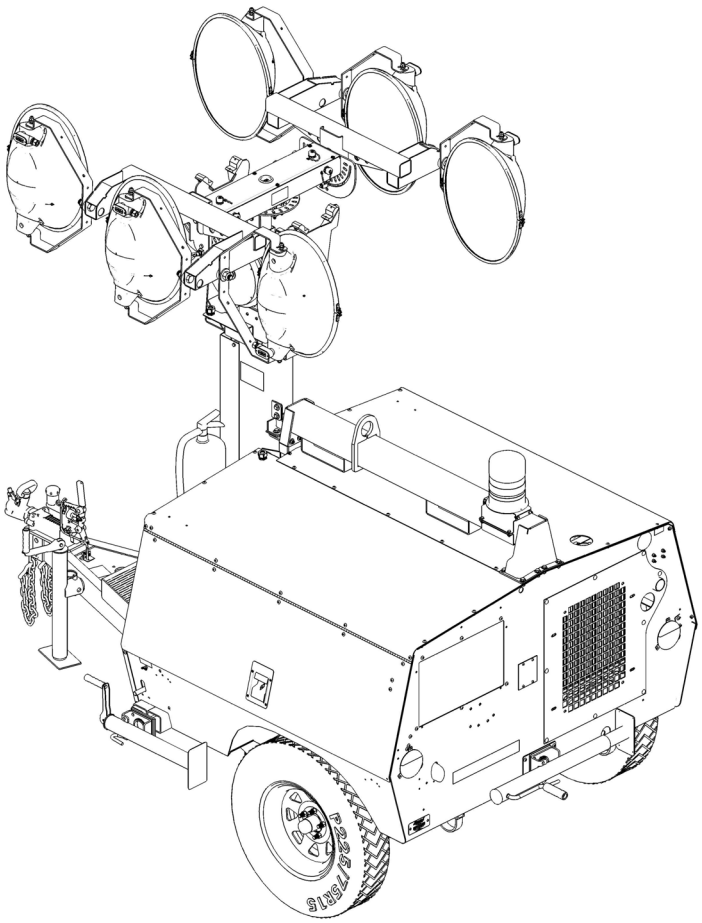
⚠ WARNING

BURN HAZARD

The light fixtures become extremely hot during use. Always use caution and heat-resistant gloves when handling the lights or allow the lights to cool down before handling.

2. Release the light bar park pin by pulling the ring and turning it 90° so that the pin remains in the retracted position.
3. Rotate the light bar into the trailering/ transporting park position (parallel with the trailer) and engage the park pin by twisting the park pin ring until the plunger is released and the pin engages and locks into the hole in the light bar.
4. Reposition the light fixtures for trailering/ transporting by pulling them down into the lowest position and face the fixtures toward the center of the trailer. (**See Right**)

If lights are to be removed for trailering/ transporting, See *Tower Lights - Removal for Trailering/ Transporting* on page 15.



TOWER LIGHTS - Removal for Trailering/ Transporting (optional)

Your light tower may be equipped with lights that can be removed for trailering/ transporting or for theft protection.

⚠ WARNING

BURN HAZARD

The light fixtures become extremely hot during use. Always use caution and heat-resistant gloves when handling the lights or allow the lights to cool down before handling.

1. Ensure lights are off and tower is lowered to the full DOWN position; See Raising and Lowering the light tower on page 32 .
2. Disconnect the electrical cord from each light fixture.
3. While supporting the light fixture, remove the nut and washer for each assembly fastening the main light fixture bracket to the light bar.
4. Store each light fixture to avoid any damage during transport

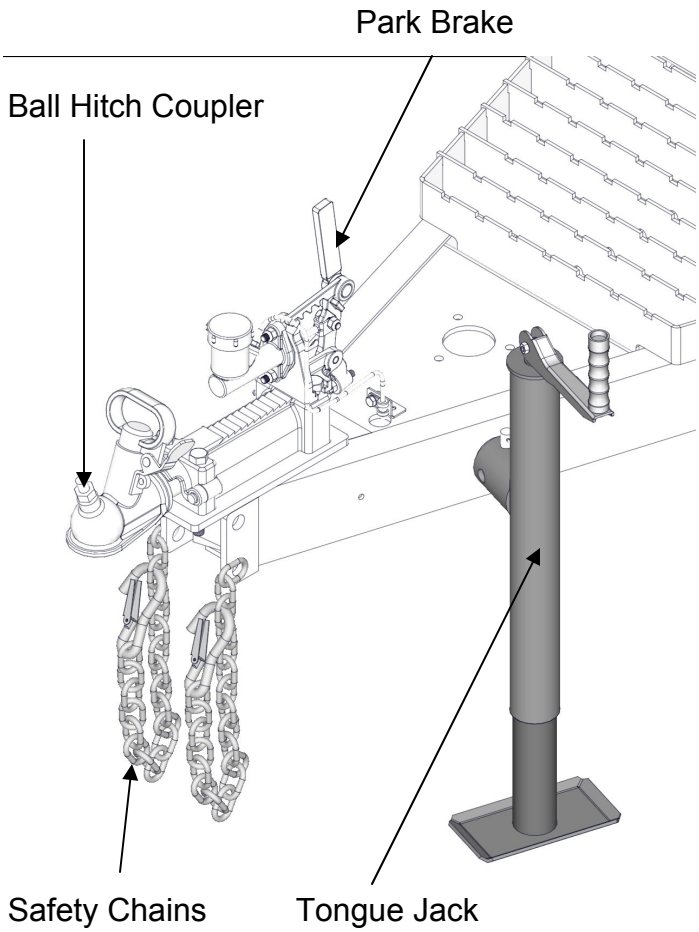
TRAILERING / TOWING

Before trailering / towing the light tower trailer, read *Before Trailering / Transporting* on page 13 and read *Safety* on page 7.

NOTICE

Maximum highway speed is 80 km/h (50 mph) and maximum off highway speed is 16 km/h (10 mph). Do not exceed these limits or damage to light tower may occur.

Trailer Component Identification



Towing Vehicle and Hitch Considerations

⚠ WARNING

CONTROL HAZARD

Never pull a trailer load that exceeds the vehicle's towing capacity.

The towing vehicle must be able to safely pull the full trailer load. Never pull a trailer load that exceeds the vehicle's towing capacity. The vehicle must have a towing hitch that is capable of safely handling the trailer load and tongue weight of the trailer.

Before trailering, always check your vehicle owners manual for maximum towing/ trailering load specifications and maximum gross vehicle weight specifications that include the fully loaded trailer.

⚠ WARNING

CONTROL HAZARD

A vehicle hitch that is underrated or improperly installed can lead to loss of control of the trailer and/ or the vehicle. Never use a hitch size or rating that does not match the trailer coupler specifications.

Connecting the Trailer Hitch Coupler and Lights

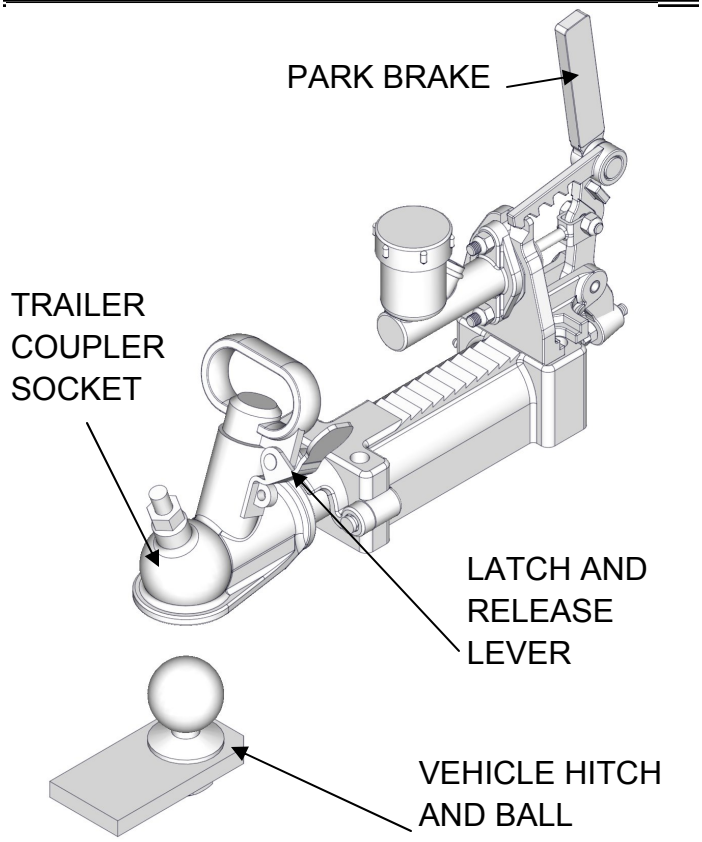
The trailer is equipped with a trailer coupler for a 50mm (2 inch) ball hitch.

⚠ WARNING

CONTROL HAZARD

Ensure the coupler bolts are tightened before trailering.

Hitch and Coupler



NOTICE

Safety chains must be rated at the same or greater weight capacity as the trailer's GVWR.

The trailer's safety chains prevent the trailer from completely detaching from the vehicle when underway. In the event the trailer separates from the vehicles hitch and ball.

1. Connect the trailer coupler to the tow vehicle's hitch and ball. Make sure the coupler is securely attached to the tow vehicle's hitch.

⚠ WARNING

CONTROL HAZARD

Attach the safety chains properly and securely between the towing vehicle and the trailer before trailering. Never allow the chains to drag on the ground when trailering.

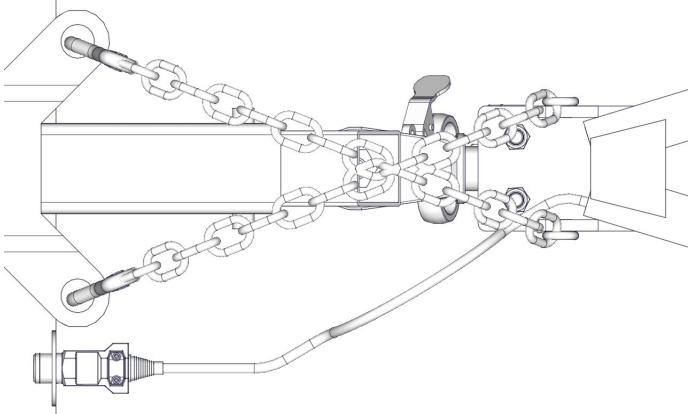
2. Connect the safety chains to the vehicle's hitch frame and crisscross the chains under the trailer tongue to prevent the tongue from dropping to the road if the trailer separates from the hitch ball. Rig the chains as tight as possible with enough slack to permit free turning.
3. Connect the 7-pin light connector from the trailers harness to the vehicles harness.

NOTICE

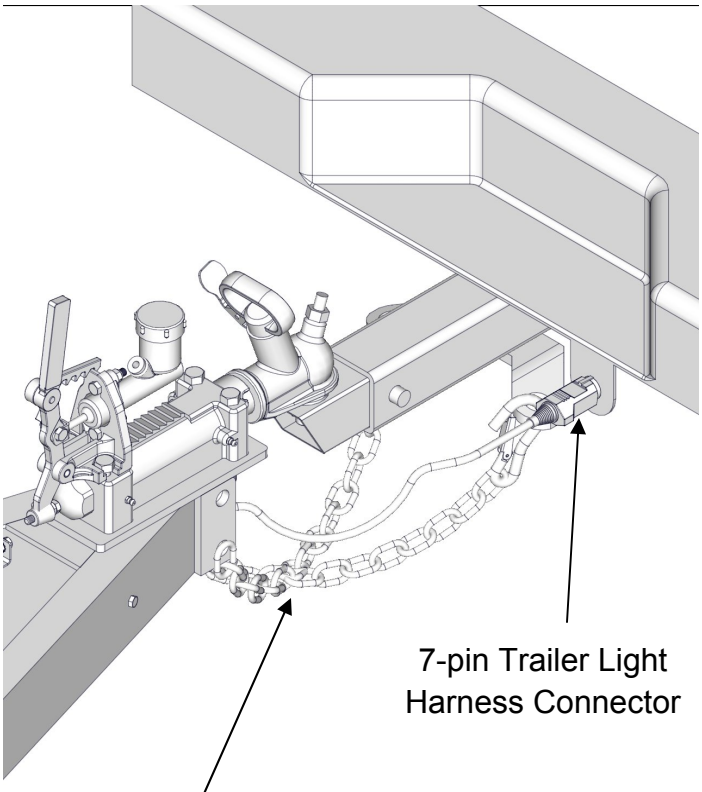
Do not allow excessive harness slack or the harness can be damaged from scraping on the ground.

4. Ensure there is adequate slack in the harness to prevent binding or disconnection when turning.
5. Before trailering, check all lights for proper operation.

BOTTOM VIEW OF HITCH AND COUPLER



PROPER CHAIN CONNECTION



LIFTING THE LIGHT TOWER

The approximate fully loaded weight of the light tower and trailer is:

Vertical tower - 1,271.4 kg (2,803lbs)

The **ML FCS MINE SPEC II** light tower is equipped with top forklift pockets and a lifting eye for lifting or hoisting.

⚠ WARNING

ROLLOVER HAZARD

Before lifting, lower the light tower and shut down tower lights and the engine: See *SHUT -DOWN-prepare for trailering*.

TRAILERING, TRANSPORTING AND LIFTING

⚠ WARNING

CRUSH HAZARD

Always make sure the lifting devise you are using is in good condition and is rated for the maximum capacity of the task to safely lift the light tower trailer.

⚠ WARNING

CRUSH HAZARD

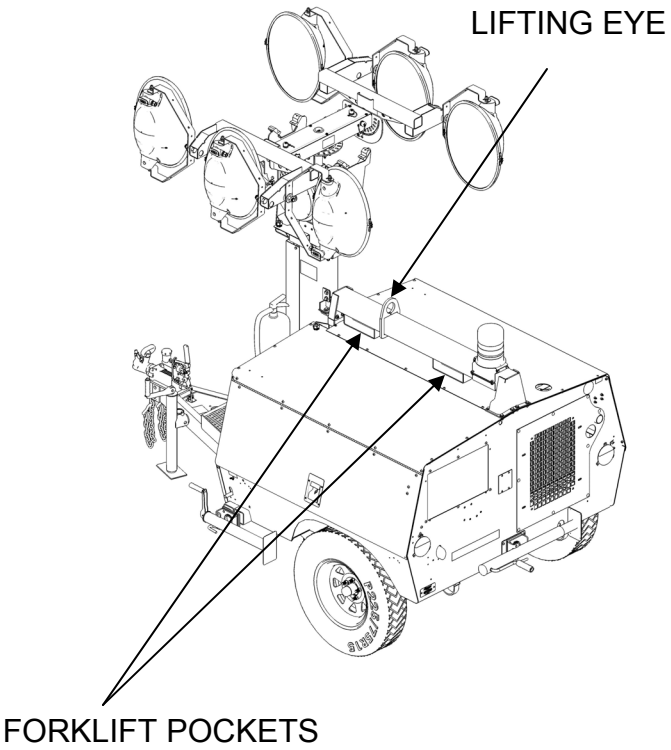
Always acquire assistance when using a forklift, crane or hoist and when loading and unloading.

⚠ WARNING

CRUSH HAZARD

Only use the lifting eye on the lifting bar to lift or hoist the unit with a hoist or crane.

LIFTING ATTACHMENT POINTS - Vertical Tower



⚠ WARNING

CRUSH HAZARD

Do not stand or walk under the unit when lifted and keep others away.

⚠ WARNING

CRUSH HAZARD

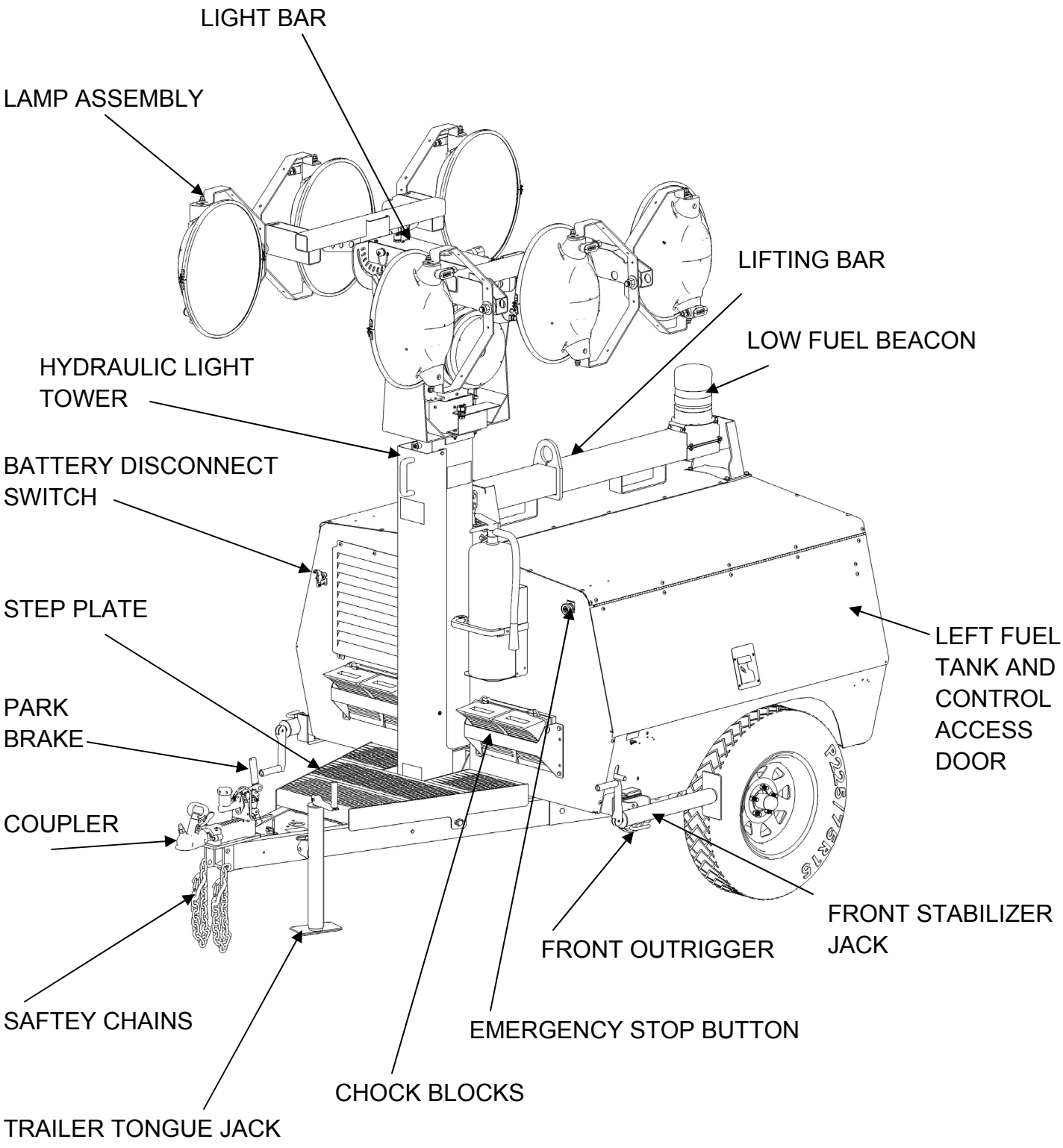
Always use shackles or a locking type hook when lifting.

TRANSPORTING ON A TRAILER

When transporting the light tower trailer on a truck or a trailer, always secure the unit using properly rated tie-down chains or straps connecting the light tower frame using tie-down loops to the towing trailer. The operator of the towing vehicle is responsible for securing the load properly.

GENERAL SERVICE INFORMATION

EQUIPMENT IDENTIFICATION– VERTICAL TOWER



GENERAL SERVICE INFORMATION

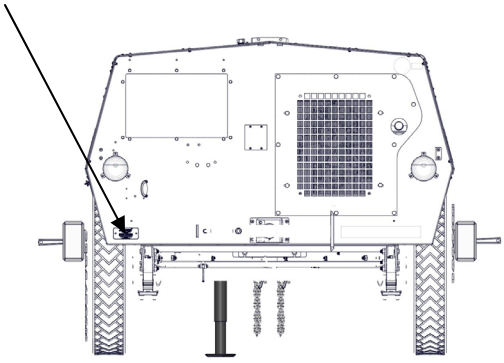
MODEL AND SERIAL NUMBERS

Model and serial number information is required for product support and repair parts. The following descriptions show model and serial number locations of the primary components.

Trailer

All **ML FCS MINE SPEC II** light tower trailers have a serial number plate attached to the rear panel .

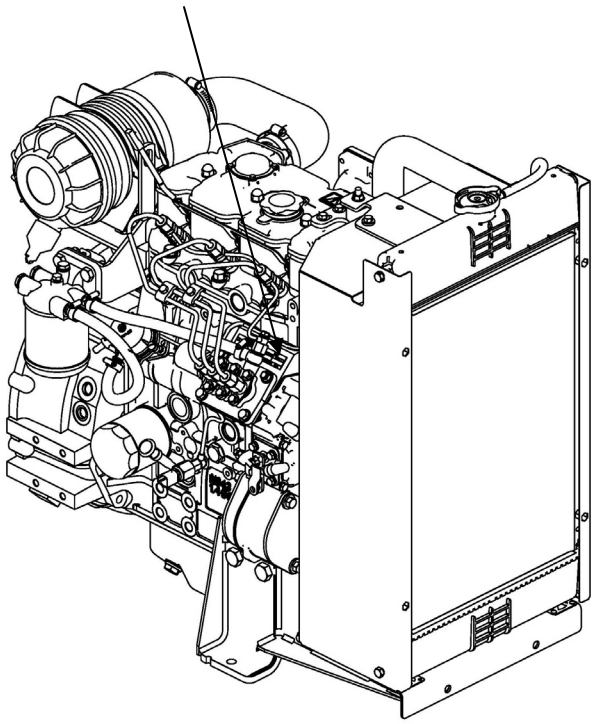
TRAILER
SERIAL PLATE



Engine

The CATERPILLAR engine has a serial number plate attached on the upper right side of the engine block above the fuel injection pump.

SERIAL PLATE

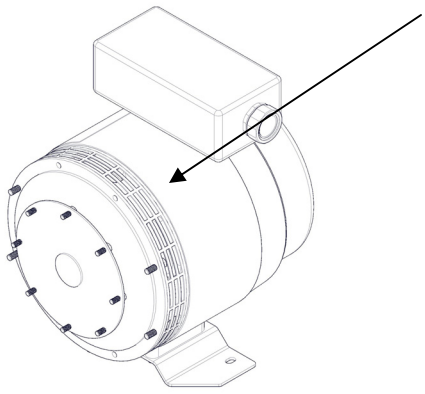


CAT ENGINE C1.5

Generator

The generator has a serial number plate attached to the side of the housing.

STAMPED SERIAL PLATE



MARATHON

SPECIFICATIONS (STANDARD AND OPTIONAL FEATURES)

Refer to the Engine Operator's Manual or the Generator Operator's Manual for specific Engine or Generator specifications.

Overall Dimensions

	Hydraulic Tower
Height Light Tower Lowered	2.34 m (7 Ft 8 in.)
Height Light Tower Raised	7.8 m (25 ft 6in.)
Width (outriggers retracted)	1.9 m (74 in.)
Width (outriggers extended)	3.91 m (12 ft 10 in.)
Length w/o Fixtures	3.14 m (10 ft 4 in.)
Length with Fixtures	3.14 m (10 ft 4 in.)
Dry Weight (4 lights)	1,036 kg (2,503 lbs.)

Trailer

Hitch Coupler	Fixed height
	50 mm (2 in.) ball
Max. Road Speed	
(paved road)	60 mph (97 km/h)
Max. Off - road Speed	20 mph (32 km/h)
Number of Axles	1
Axle Rating	5000 lbs. (907.1 kg)
Tire Size & Rating	ST 225/75 D15
Max Tire Pressure	448 kPa (65 PSI)
Door Locks	Standard
Trailer Lights:	Stop, Turn, Running
Trailer lLight Connector	7 - Pin Plug
Lifting Eye	Standard
Tie - Down Rings	Standard
Side Forklift Pockets	Standard
Top Forklift Pockets	Standard
Number of Stablizers	4
Number of Outrigger	
Stabilizers	2
Tongue Jack	Standard
Ground Rod	Standard

Light Tower– Vertical

Sections	6
Hydraulic Cylinder	Standard
Vertical	Standard
Max Wind Load	85.3 km/h
	(57 mph)
Light Bar Rotation	360°
Cord Reel	Standard

GENERAL SERVICE INFORMATION

Tower Lights

SHO - HD 1250W Metal Halide (lumen rating: 150,000)	Standard
SHO - HD 1000W Metal Halide (lumen rating: 110,000)	Optional
SHO - HD 1000W and 1250W Metal Halide	Warm - up time: 2-4 minutes
SHO - HD 1000W and 1205W Metal Halide	Re - start time: 10 to 15 minutes
Six Fixtures	Standard (sealed for all weather use)
Light Fixture Weight	15 lbs (6.75 kg)
Indivdual Light Switches	
1000W Light Switch (1 per 2 lights)	Optional
1250W Light Switch (1 per 2 light)	Standard
Individual Ballast (1 ballast per light)	Standard

Generator

20 kW	Standard

ML FCS MINE SPEC II	
	STANDARD
Model	CAT C1.5
Type	Water Cooled 4 Cycle Diesel
Bore	3.3 in (84mm)
Stroke	3.5 in. (90mm)
Displacement	89.8 cu. in. (1472cc)
Power @1800 RPM 60Hz	18.8 hp (14kW)
Power @1500 rpm 50Hz	16 hp (12kW)
Power Output rerating	3% per 1000ft above 360ft 1% per 10° above 77° F
Note: Horsepower ratings are established in accordance with Society of Automotive Engineers Small Engine Test Code – J1349 GROSS	
Fuel System	Indirect injected Diesel
Starting System	12VDC Negative Ground
Electrical System	12VDC Negative Ground
Battery Type	Group 24
Battery Rating	550 CCA
Number of Batteries	1
Compression Ratio	22.5:1
Weight	434 lb (196.9 kg)
Oil Capacity	MAX 6.3qt (6L) MIN 4.8 qt (4.5L)
Lubrication	Forced Lubrication by Pump
Oil Filtration	Cartridge Type
Cooling System	Pressurized radiator forced circulation with water pump
Low Oil Pressure Shutdown	Standard all Engines
High engine Temperature Shutdown	
Glow Plug Cold Start Assist	
Fuel	Use a clean NO. 2 diesel fuel oil (SAE J313 JUN87) according to ASTM D795. Do not use alternative fuel, because its quality is unknown or it may be inferior in quality, and kerosene, which is very low in cetane rating, adversely affects the Engine. Refer to the *Engine Operator's Manual* for more detailed fuel requirements.
Engine Oil	Use a high- quality engine oil of API (American Petroleum Institute) service class CC/CD/CE. Refer to the *Engine Operator's Manual* for more detailed engine oil requirements.
Fuel Tank	50 gal. (189.27) or 70 gal (264.98. L)
Cooling Tank	See *Engine Operator's Manual*
Engine Oil	See *Engine Operator's Manual*

OPTIONAL ACCESSORY EQUIPMENT

- Saf -T-Visor™
- Hydraulic Tower
- LSC100™ Light Sequence Commander
- Heavy Duty Battery (700 CCA)
- Battery Heating Pad
- Engine Block Heater
- Sound Attenuation package
- 7-Blade RV Taillight Connector
- 189 L (50 gal.) Fuel tank
- Quick - Disconnect Lamp Fixtures

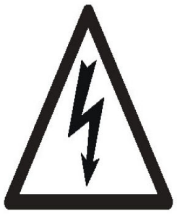
PRE-OPERATION SETUP

Work site safety considerations

Overhead Obstructions

Position the light tower trailer where there are no overhead obstructions. Ensure that there is sufficient clearance from structures, trees and wires before raising the light tower.

⚠ DANGER



ELECTROCUTION HAZARD

Always check overhead wires and obstructions before raising or lowering the light tower. Allow 10.6m (35 feet) of clearance.

Ground Surface

Check the ground conditions where you intend to set up the light tower trailer. The ground must offer firm, stable footing for the outriggers and jacks. The area must be flat and level.

⚠ WARNING

ROLLOVER HAZARD

Do not position or set up on unlevel or unstable ground. Only set up on smooth, flat and solid ground surfaces.

Wind

The light tower will remain operational in sustained winds up to 92 km/h (57 mph) when properly positioned on firm level ground, with the outriggers and jacks properly positioned, and the light tower fully raised.

⚠ WARNING

ROLLOVER HAZARD

Do not operate with the light tower extended in winds exceeding 92 km/h (57 mph.).

Pre - Operation Check list

Always perform the following checks before traveling to the work site and before operation. Repair or replace any components as required before operation.

NOTICE

See appropriate section of the Engine Operator's Manual and generator Operator's Manual for additional pre-operation checks.

- Visually inspect the equipment to ensure that all instructions and decals are in place and legible.
- Inspect the light tower locking bar latch assembly, which locks the light tower in the vertical position for proper operation. (Laydown Tower only).
- Check the hitch assembly and safety chains.
- Check the outriggers and jacks to make sure they operate properly.
- Inspect the light assemblies for damage and test for proper operation.

⚠ DANGER

ELECTROCUTION HAZARD

Do not operate the light tower if the insulation on the electrical cord or other electrical wiring is cut or worn or if bare wires are exposed.

- Inspect the electrical wiring for signs of damage.
- Check the ground rod cable and ground lug. Make sure they are clean, undamaged and functional.
- Inspect the tires to ensure good condition and proper inflation.

- Check engine oil, fuel, engine coolant levels and hydraulic fluid levels, if equipped.
- Check to make sure the *Light Tower Operator's Manual, Engine Operator's Manual* and *Generator Operator's Manual* are with the equipment.
- Physically inspect the machine for damage and repair if necessary.

After completing the pre-operation check list, operate the light tower through a complete operation cycle.

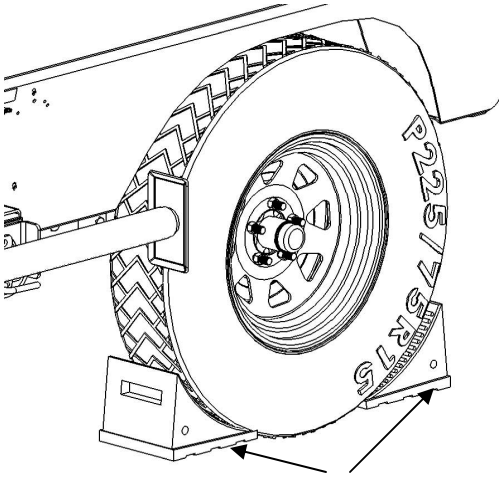
Leveling and Stabilizing the Trailer

⚠ WARNING

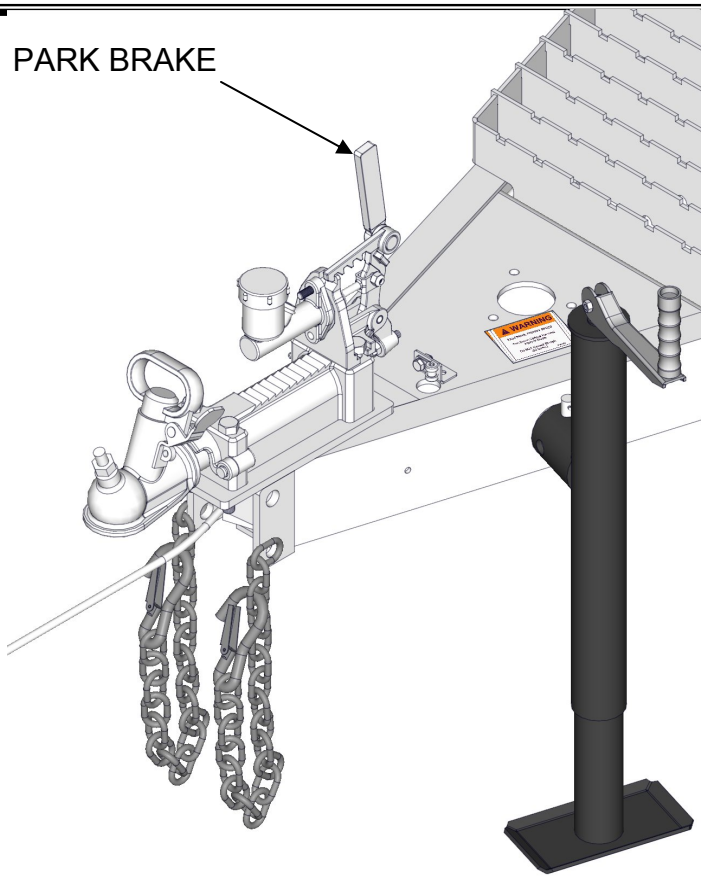
ROLLOVER HAZARD

Do not set up on unlevel or unstable ground. Only set up on smooth, flat and solid ground surfaces. Always level the light tower trailer before raising the light tower.

1. Position the **ML FCS MINE SPEC II** on an adequate site: See *Work Site Safety Considerations* on page 28.
2. Block each wheel on each side with a suitable wheel chock.
3. Set park brake.



Wheel Chock Blocks

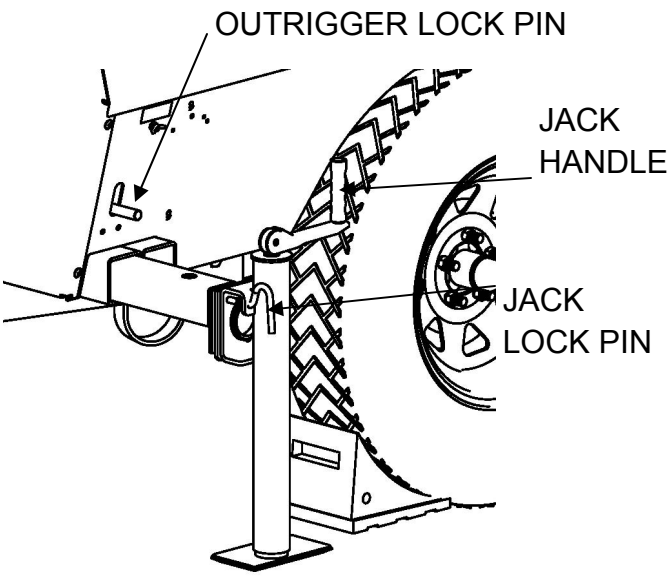


⚠ WARNING

ROLLOVER HAZARD

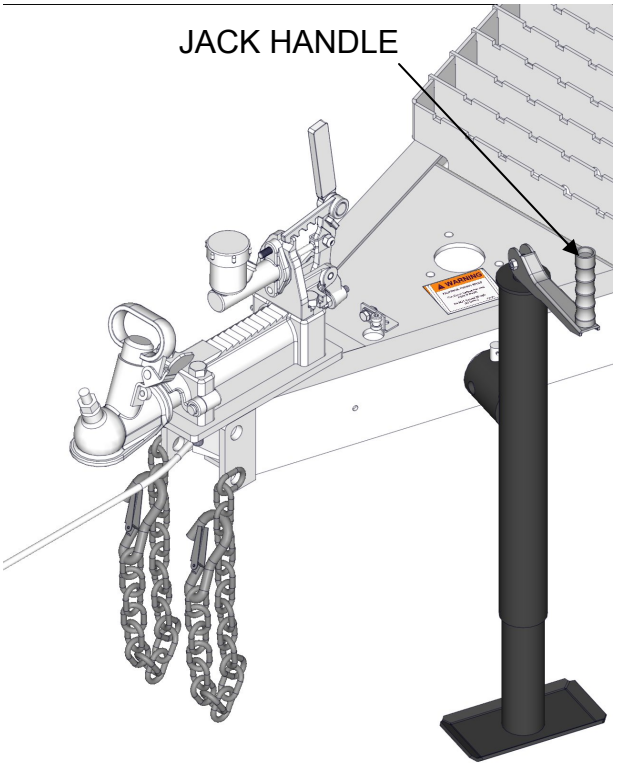
All stabilizer jacks must be supported by a flat, level solid ground surface.

3. Extend the front outrigger stabilizers out and lock in place.



4. Rotate the rear stabilizer jack perpendicular with the ground and lock in place.

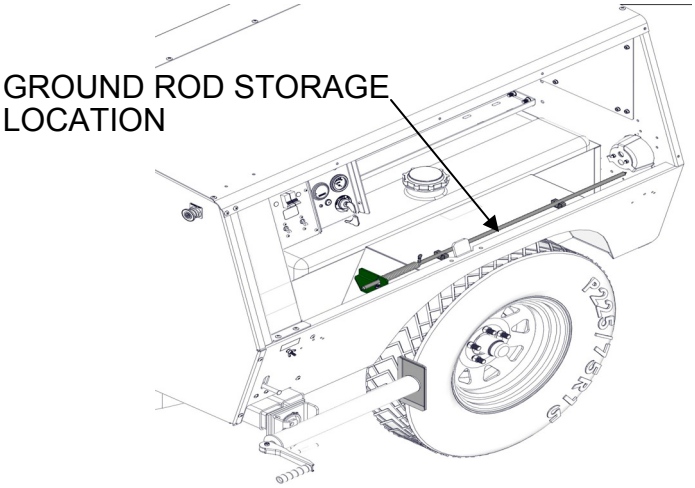
5. Adjust each front stabilizer jack and the tongue jack to achieve proper leveling. Turning the handles clockwise will raise the jacks and counterclockwise will lower the jacks.

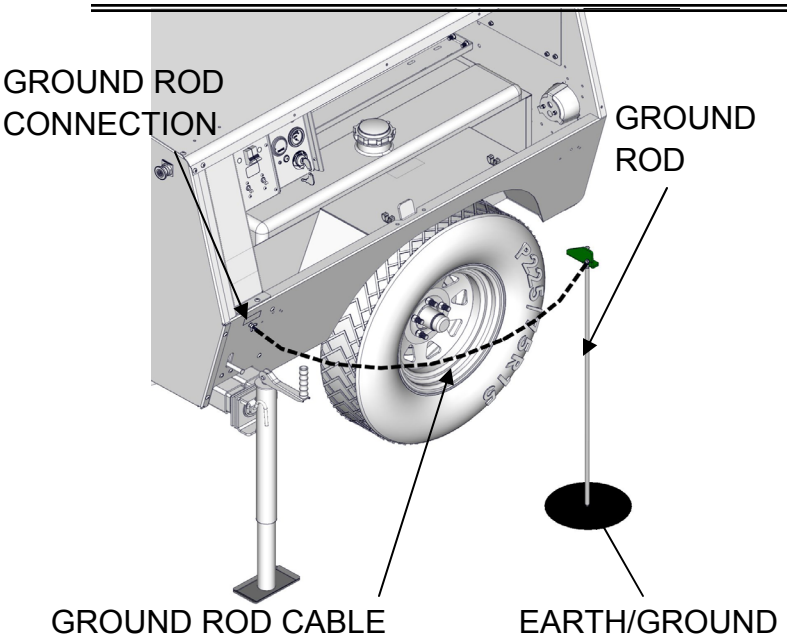


Installing the Ground Rod

The ground rod is a safety devise that may reduce the chance of personal injury from stray electrical current. Allmand recommends using the ground rod. However, it is the user's responsibility to determine the requirements and/or applicability of local, state or national electrical code which governs the use of the ground rod.

Drive the ground rod fully into the ground using a hammer. Attach the supplied cable to the rod and then attach the cable to the ground lug on the unit. Make sure the cable connections are tightened.





ENGINE OPERATION

Before starting the engine or operating the light tower, review *Safety* on page 7.

The Allmand **MLFCS MINE SPEC II** light tower is powered by a diesel engine and generator unit.

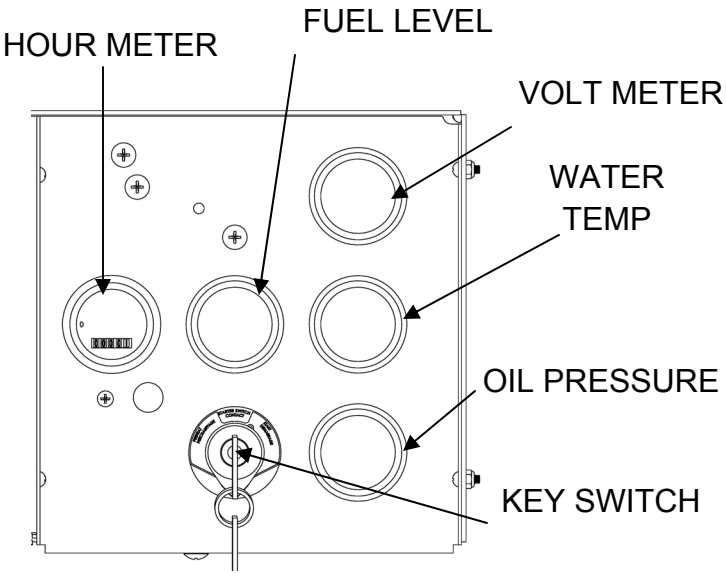
Pre– Start Checks

1. Check the engine oil and add oil if required. Fill the engine with the proper grade of lubricating oil: refer to *Engine Operator's Manual* for oil specifications.
2. Check and add diesel fuel as required.
3. Ensure that the air cleaner is firmly attached and air cleaner seals and hose clamps are properly sealed. Air cleaner element should

Engine Control Panel

The engine control panel consists of the engine start/stop key or button, hour meter.

CAT C1.5 Control Panel



Starting the Engine

The Starting procedure is different depending on the engine model used. Refer to your *Engine Operator's Manual* for the starting procedure.

Cold - Weather Starting

The cold-weather Staring procedure is different depending on the engine model used. Refer to your *Engine Operator's Manual* for the cold-starting procedure.

Low Fuel Level Warning

When the fuel level is at 1/4 of a tank, the fuel warning light will turn on (Warning light located on the trailer lift bar).

If Engine has Run Out of Fuel

1. Refill the fuel tank.
2. Refer to your *Engine Operator's Manual* for the starting procedure.

NOTICE

Do not operate starter for more than 10 seconds without allowing 30 seconds to pass between starting attempts. Possible starter damage could result from excessive heat caused by cranking the engine too long.

NOTICE

If the engine develops sufficient speed to disengage the starter but does not keep running (a false start), the engine rotation must be allowed to come to a complete stop before attempting to restart the engine.

If starter is engaged while the flywheel is rotating, the starter pinion and flywheel ring gear may clash, resulting in damage to the starter or flywheel ring gear.

Stopping the Engine

The engine stopping procedure may differ depending on the engine model. Refer to your *Engine Operator's Manual* for engine stopping procedures.

Emergency Stop Switch

The **ML FCS MINE SPEC II** light tower trailer is equipped with an emergency Stop switch. Which will cut the power to the engine in case of on emergency. The switch must be reset in order to restart the engine.

Battery Disconnect

The light tower trailer is supplied with a lockable battery shut off switch. The switch disconnects the power from the battery to all electrical components. The switch must be in the ON position to start the engine.

Automatic Engine shutdown System

The engine is equipped with an automatic engine shutdown system to prevent excessive engine damage in the event of a low oil or overheat condition. For additional information, refer to your *Engine Operator's Manual.*

Low Oil Pressure Shutoff

Should a low oil pressure condition occur, the oil pressure sending unit breaks the circuit between the circuit between the battery and the fuel solenoid, allowing the spring load to immediately move the fuel control to the shutoff position.

High Coolant Temperature Shutoff

Should a high coolant temperature condition occur, the temperature sending unit breaks the circuit between the battery and the fuel solenoid, allowing the spring load to immediately move the fuel control to the shutoff

TOWER AND LIGHT OPERATION

VERTICAL

Before operating the tower lights, review *Safety* on page 7.

The vertical tower is raised and lowered by a hydraulic pump actuating a six section telescoping mast.

⚠ WARNING

ROLLOVER HAZARD

Before raising, lowering or operating the tower lights, the trailer must be set up, properly leveled and stabilized and ground rod installed; *See Pre-Operation Setup.*

⚠ WARNING

CRUSH HAZARD

Allow adequate clearance around and above trailer when raising or lowering the light tower. Ensure that there are no obstructions or persons near the light tower when raising or lowering the light tower.

Light Bar and Light Fixture Adjustment-Vertical

Lights– Work Site Adjustment

The light bar and light fixtures must be adjusted to the desired work angle before raising the light tower.

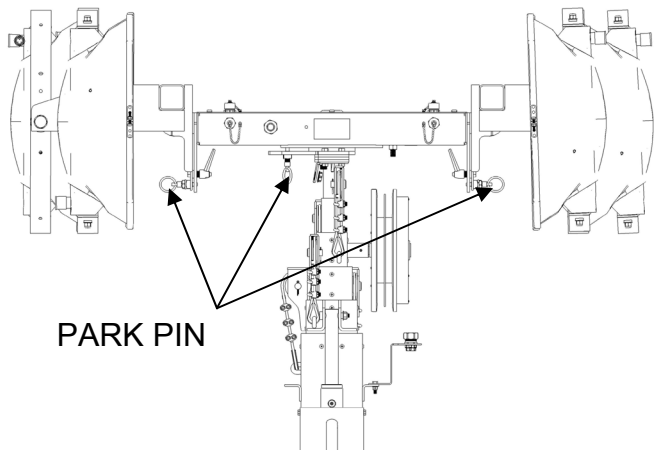
⚠ WARNING

BURN HAZARD

The light fixtures become extremely hot during use. Always use caution and heat-resistant gloves when handling the lights or allow the lights to cool down before handling.

With the light tower fully lowered and the lights off, the light bar assembly and light fixtures can be manually rotated into the desired position.

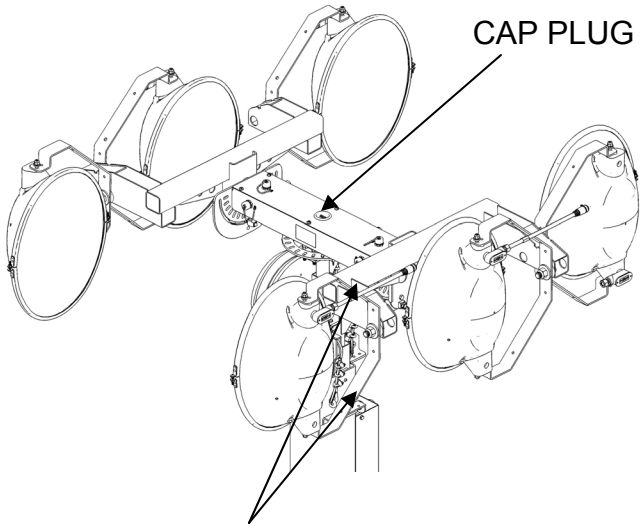
To adjust the light bar, release the light bar park pin by pulling the ring and turning it 90° so that the pin remains in the retracted position.



With the light bar park pin released, the light bar is designed to be manually rotated with enough resistance so that the bar will stay in the desired position once the operator has directed

If the light bar rotates too easily or does not stay in position, remove the cap plug from the center of the light bar cover and tighten the nut to achieve the desired resistance and replace the cap plug.

To adjust each light fixture, manually swivel each light fixture at its base into the desired working position.

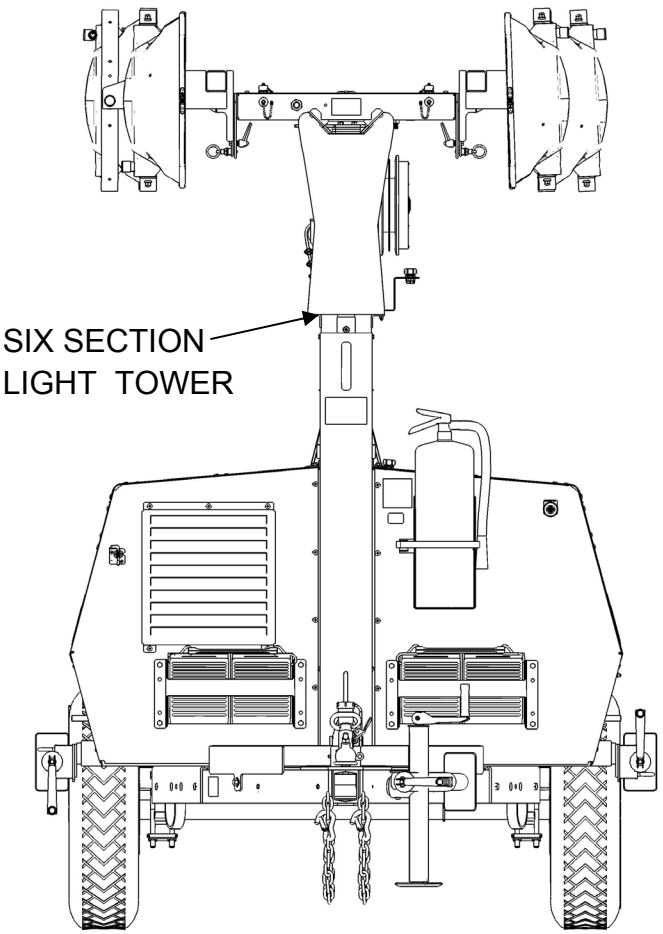


The light bar and light fixtures must be stowed properly for trailering or transporting. See *Tower Lights-Stowage for trailering-Vertical on page 14.*

Raising and Lowering the Vertical Tower

Light Tower

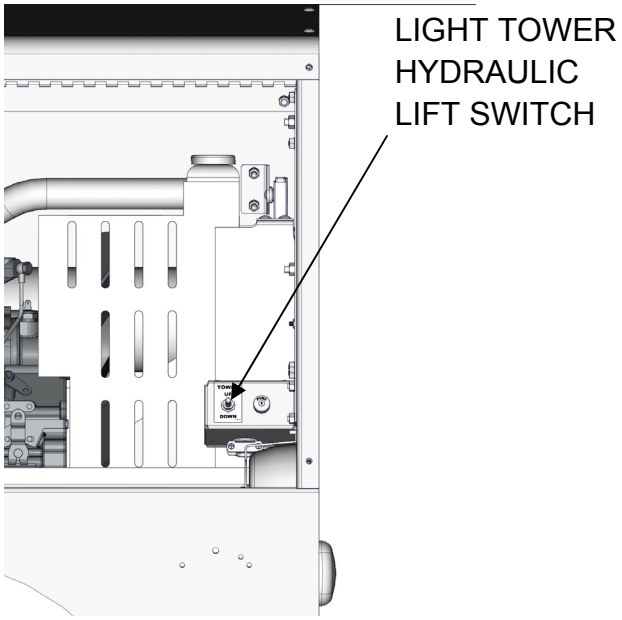
The Hydraulically actuated light tower uses 12VDC Battery power to operate. The light tower may be raised and lowered as needed without the engine running.



Raising

Before raising the light tower, visually inspect the equipment for worn or damaged parts and replace or repair as necessary.

1. Before raising the light tower, adjust the tower lights to the desired work position; see *Light Bar and Light Fixture Adjustment-Vertical* on page 32.
2. Turn the lights off; see *Light Control Panel* on page33.
3. Press the light tower lift switch up to raise the light tower to the desired height.



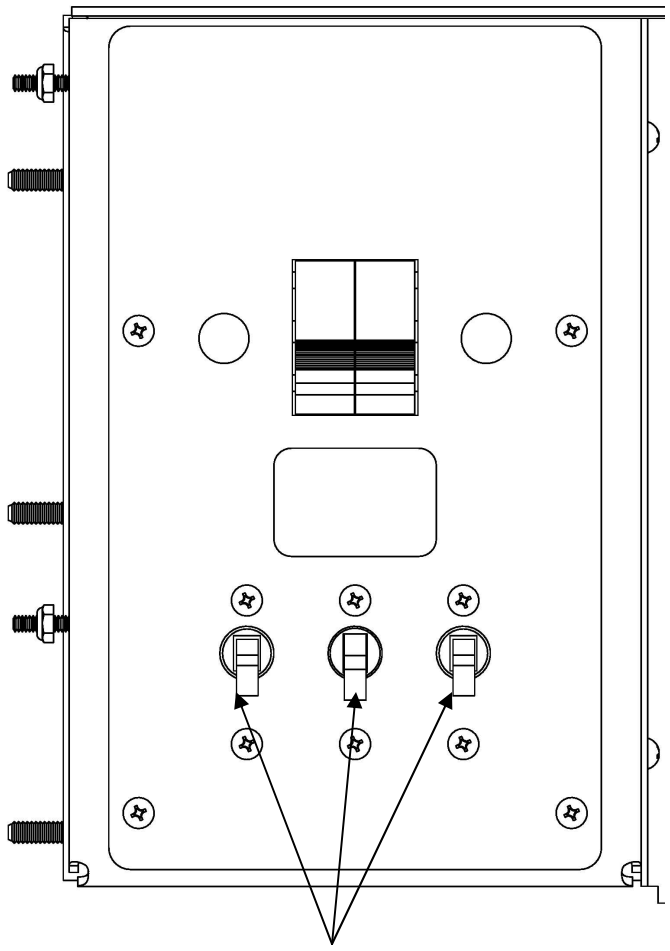
Lowering

1. Turn the lights off; see *Light Control Panel* on page 33.
2. Press the tower light hydraulic lift switch down to lower the light tower to the desired height or to the full DOWN position.
3. When tower reaches the bottom, run switch for three additional seconds to ensure that the tower is at its lowest possible position.
4. Stop engine.

Light Control Panel

The tower light control panel consist of the breaker switches.

The six light fixtures are controlled and protected by three breaker switches located on the light control panel.



LIGHT BREAKER SWITCHES

Lights On

NOTICE

Before turning the lights on, the engine *MUST* be running and should be allowed to reach normal operating temperature.

Turn the light breaker switches to the ON position. Two to Six lights may be used

Lights Off

Turn all light breaker switches to the OFF position.

NOTICE

Failure to turn off lights before stopping the engine *MAY* result in generator damage and void warranty.

SHUTDOWN PROCEDURE

Shutdown

When shutting down the light tower perform the following procedures.

1. With the lights off, lower the light tower to the full DOWN position; see *Raising and Lowering the Light Tower* on page 32.
2. Turn the engine off. Refer to your *Engine Operator's Manual* for stopping procedure.

Before performing any maintenance procedures, read *Safety* on page 7.

Scheduled maintenance prevents unexpected downtime, and helps extend the life of the light tower. Proper maintenance and care of your light tower and trailer is a must for safe and reliable operation. Use the following maintenance and care guidelines in addition to those scheduled by your shop's preventative maintenance schedule.

Where equipment is operated under severe conditions (very dusty, extreme heat or cold, etc.), affected items should be serviced more frequently.

ENGINE

Refer to the *Engine Operator's Manual* for all engine scheduled maintenance procedures.

Changing and Adding Engine Oil

NOTICE

Follow the guidelines of the EPA or other governmental agencies foe the proper disposal of hazardous materials such as engine oil, diesel fuel and engine coolant. Consult the local authorities or reclamation facility.

Use a high-quality engine oil of API (American Petroleum Institute) service class CC/CD/CE. Refer to the *Engine Operator's Manual* for detailed engine oil specifications and service procedures.

All models are equipped with the remote oil drain.

Engine Filters

Refer to the *Engine Operator's Manual* for air, oil and fuel filter service procedures.

ELECTRICAL SYSTEM

Refer to the *Generator Operator's Manual* for all general scheduled maintenance procedures.

Ballast Panel

The ballast panel is located on the left, front side of the light tower trailer. The ballast panel can be accessed by removing the left front panel. The ballast panel contains six tower light lamp ballast and six capacitors. For additional wiring information, see schematics or contact Allmand Bros. or your Allmand dealer.

⚠ WARNING

ELECTROCUTION HAZARD

Only qualified electricians should service or perform replacement procedures. Ballast and capacitors are capable of discharging high voltage. Always use appropriate personal safety clothing and gear when servicing electrical equipment.

⚠ WARNING

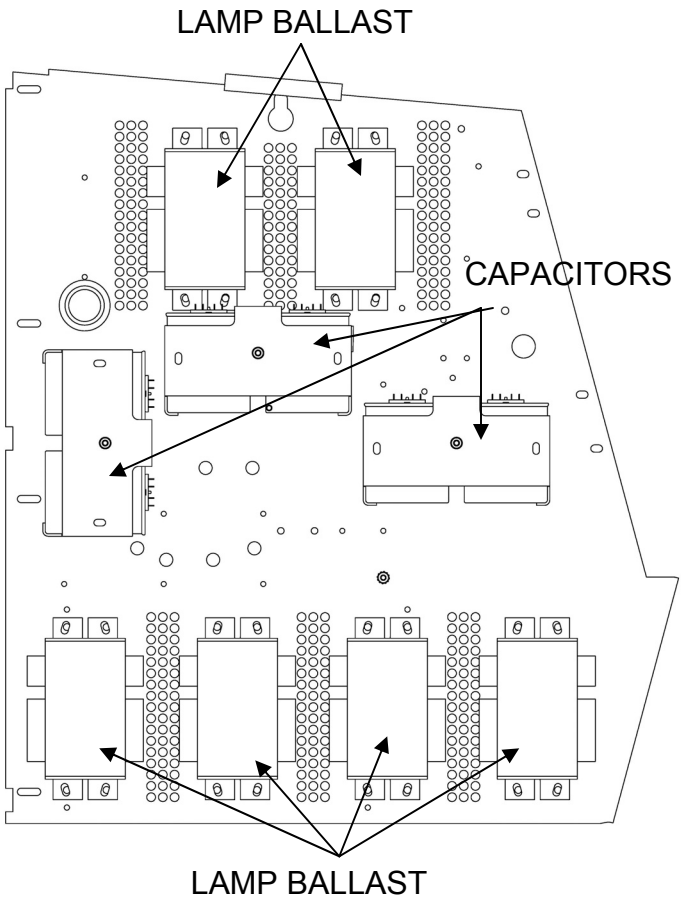
ELECTROCUTION HAZARD

High Voltage is present when engine is running. Never attempt to service electrical components while engine is running.

⚠ WARNING

ELECTROCUTION HAZARD

Do not operate the light tower if the insulation on the electrical wiring is cut or worn, or if bare wires are exposed. Repair or replace damaged wiring before starting the engine.

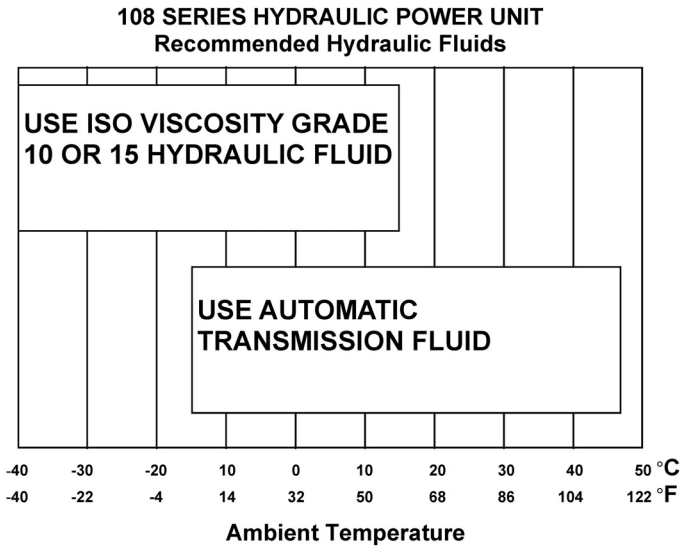


Adding Hydraulic Oil

Fill the reservoir with an iso viscosity grade 10 or 15 hydraulic fluid or any clean hydraulic fluid having a viscosity index that is suitable for the climate conditions in which the unit will be operated. Standard units are supplied with automatic transmission fluid (ATF), and arctic units are supplied with iso viscosity 10 or 15 hydraulic fluid.

HYDRAULIC PUMP

Hydraulic Oil Specification



Priming the Hydraulic Pump

The ports are marked on the hydraulic power unit casting: ‘UP’ and ‘DN’. When facing the power unit with the motor up, plug the right hand, or ‘DN’ port. Jog the motor until oil flows from the left hand or ‘UP’ port. The pump is now primed. Connect the hose or tubing to the ‘UP’ port and tighten. Connect the other hose end to the blind end of a fully retracted hydraulic cylinder. With the hose fitting loose, operate the power unit until oil (and no air) bleeds from the fitting. Tighten the fitting. Refill the reservoir.

LIGHT TOWER AND LAMPS

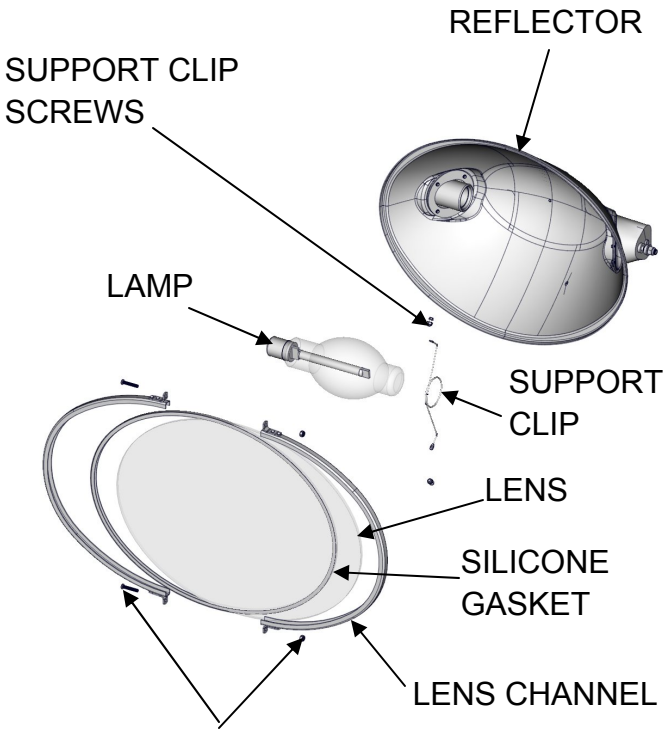
Changing Lamps

⚠ WARNING

BURN HAZARD

The light bulbs and the fixtures become extremely hot during use. Allow the bulbs and fixtures to sufficiently cool down before changing bulbs or severe burn may occur.

1. Turn off the lights and shut off the engine. Allow the bulbs and fixtures to cool.
2. Lower the light tower to the full DOWN position.
3. Loosen the lens channel screws to allow the removal of the lens channel.



4. Remove the silicone gasket and lens.
5. Remove the support clip screws and support clip.
6. Carefully remove the old lamp and install the correct replacement lamp.
7. Clean reflector and lens.
8. Install support clip and screws.
9. Install the silicone gasket and lens; replace if damaged or as needed.
10. Install lens channel and screws.
11. Test the new lamp to ensure proper operation.

TRAILER

Proper maintenance and care of your trailer is a must for safe and reliable operation. Follow these maintenance and care guidelines in addition to those scheduled by your shop equipment maintenance schedule.

Frame

1. Check the coupler for proper operation, and for corrosion or damage replace as needed.
2. Inspect the lifting bar for corrosion or damage and replace as needed.
3. Inspect the axle, springs and undercarriage for wear and damage and replace as needed.
4. Inspect the outrigger bars, front and rear stabilizer jacks and locking mechanisms for proper operation and wear and damage and replace as needed/
5. Inspect the safety chains for wear, corrosion or damage and replace as needed.

Grease Points

Use N.G.L.I. consistency #2 high-temperature anti- friction bearing lubricating grease for all trailer mechanical pivot points.

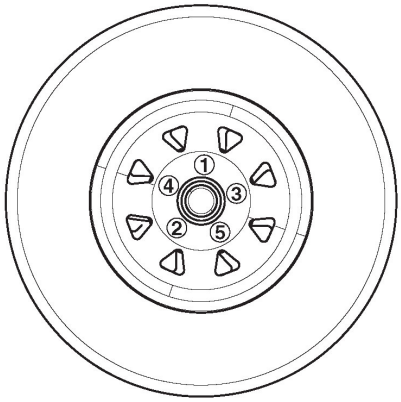
Trailer Wheels and Tires

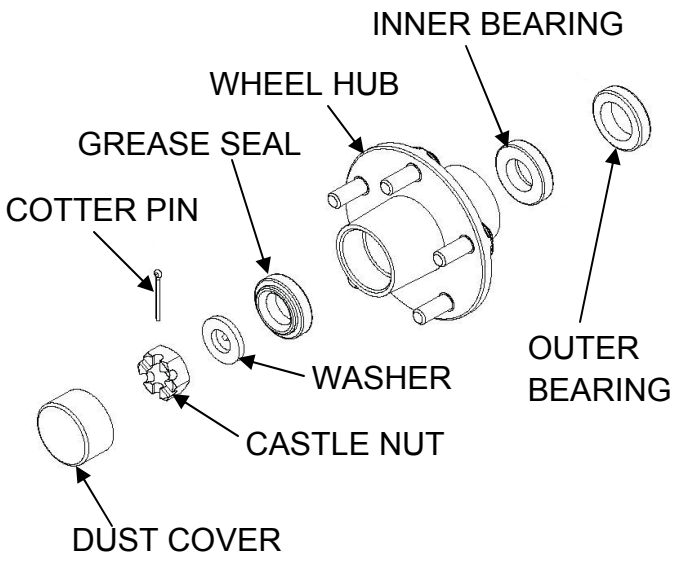
⚠ WARNING

TOWING HAZARD

Never tow the trailer with inoperable trailer lights.

1. Check the tires for any cracks, cuts or damage. Repair or replace the damaged tires before towing.
2. Check the air pressure of the trailer tires when cold. The correct air pressure for the tire is specified on the tire. Never over or under inflate tires.
3. Check the wheel rims for any cracks or damage.
4. Make sure all the lug nuts are in place. Never tow the trailer with missing or improperly tightened lug nuts.
5. Check that the lug nuts are tightened properly. The correct torque for the lug nuts is 90 lb-ft (122N-m).
6. When torquing the lug nuts, always use a crisscross pattern.





Wheel Bearings

Wheel bearings require periodic maintenance. More frequent service may be required under extremely dust or damp operating conditions. The best protection against failure is to keep the wheel bearings clean and fully lubricated.

When replacing or repacking wheel bearings, always:

- Use a high quality wheel bearing grease.
- Avoid mixing grease types.
- Clean all components thoroughly of all grease and inspect for damage and wear. Replace as needed.
- Always use a new grease seal and cotter pin.
- Keep all components clean during assembly.
- Replace any component that is operationally questionable.
- Pack grease into the bearing before installing it.

- Always replace bearings and races as a set. Never mix bearings and races. Bearing part numbers are sometimes found on the bearing races; always use the correct bearing set.
- Do not over or under tighten the bearing nut. Wheel bearings should only be tightened by hand (spin the wheel while tightening). Back off the nut to insert the cotter pin. The wheel should spin freely but without play.
- Pack some grease in the inner hub area and dust cap and ensure the dust cap fits tightly.

Trailer Lighting

⚠ WARNING

TOWING HAZARD

Never tow the trailer with inoperable trailer lights.

Keep the lights in proper working order.

- Check that all lights operate properly.
- Check the trailer lights and harness for damage or wear and replace as needed.
- Ensure the harness is secured into the trailer and does not hang down onto the ground.
- Check the taillight housing assemblies for leaks. Use silicone or rubber sealant to seal the lens or harness or replace the housing assembly. Dielectric grease will help protect the sockets and prevent their corrosion.
- When replacing bulbs, ensure the proper bulb is used and use a small amount of Di-electric grease in the sockets to prevent cor-rosion.

For trailer light wiring schematic information,

See *Tail lamp* wiring schematic on page 50.

LONG TERM STORAGE

Proper maintenance is required when the light tower and trailer will be stored or removed from operation for long periods of time.

Refer to the *Engine Operator's Manual* and the *Generator Operator's Manual* for all engine and generator long term storage procedures.

1. Lower the light tower to the full DOWN position.
2. Make any repairs necessary to ensure the equipment is fully functional upon returning the unit back into commission.
3. Clean and wash the frame and body panels. Apply an anticorrosion coating to all Surfaces where applicable.
4. Clean any oil or liquid spills inside the engine compartment.
5. Clean all electrical wiring and components by hand using a non-corrosive cleaner.
6. Clean the light tower and light fixture assemblies.
7. Disconnect and remove battery.
8. Use suitable cover to protect the light tower and trailer.
9. Properly support the trailer axle on jack stands or other suitable supports to allow the tires to remain off the ground during storage.

CLEANING

Keeping the light tower clean is important to ensure proper operation. Dirt and dust buildup acts as an insulator and may cause the engine, generator and light assemblies to operate at excessively high temperatures.

Use the following guidelines:

- Use caution when using compressed air or water/steam pressure washers. Do not pressure clean electrical components as this may damage electrical equipment.
- Clean the light tower and remove all dust, dirt or other foreign material.
- Inspect and clean the cooling air intake and exhaust louvers of the enclosure. Make sure they are clean. Remove dirt or any buildup that may restrict the cooling air flow.
- Clean the light tower and its components with a damp cloth or sponge.
- Inspect and clean all engine linkages so they operate properly.

Cleaning and Draining the Trailer Bilge

The Allmand **ML FCS MINE SPEC II** light tower trailers have a fuel containment tray option, designed to catch fuel, oil or coolant spills. Should a spill occur, position a suitable container beneath the unit and remove the containment tray drain plug. After the fluid has been drained, reinstall the drain plug and dispose of the fluid properly in accordance with EPA or other governmental guidelines.

Before performing any troubleshooting procedures, read *Safety* on page 7.

For engine and generator troubleshooting, see the *Engine Operator's Manual* and *The Generator Operator's Manual* or contact Allmand Bros. Service Department or your Allmand dealer.

⚠ WARNING

ELECTROCUTION HAZARD

Only qualified electricians should service or perform replacement procedures. Ballast and capacitors are capable of discharging high voltage. Always use appropriate personal safety clothing and gear when servicing electrical equipment.

⚠ WARNING

ELECTROCUTION HAZARD

High Voltage is present when engine is running. Never attempt to service electrical components while engine is running.

⚠ WARNING

ELECTROCUTION HAZARD

Do not operate the light tower if the insulation on the electrical wiring is cut or worn, or if bare wires are exposed. Repair or replace damaged wiring before starting the engine.

Always follow the electrical component manufacture specifications for voltage and test procedures.

TROUBLESHOOTING CHART

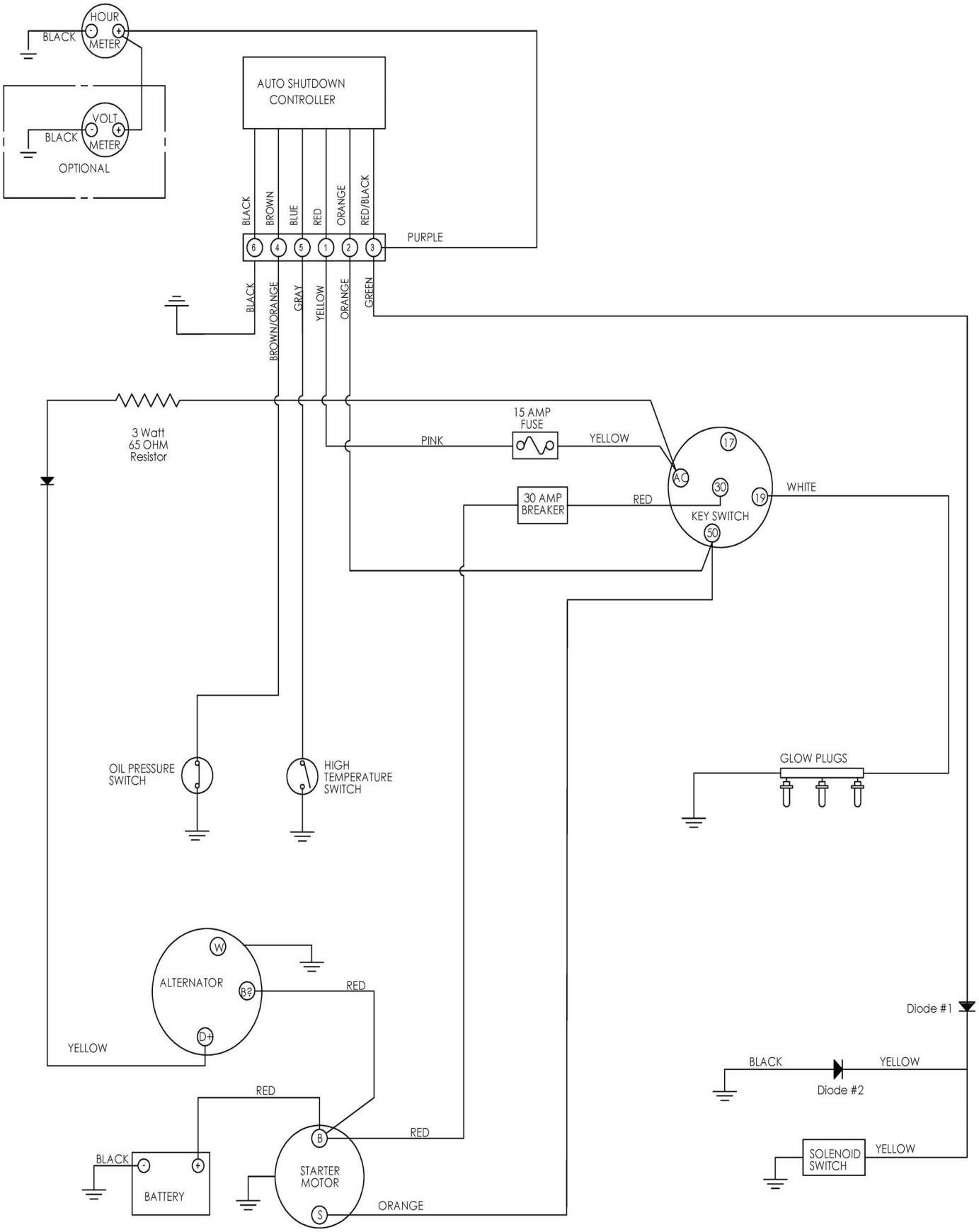
PROBLEM	POSSIBLE CAUSE
	1. The lamp or lamps are burned out or broken or not screwed in securely.
	2. Low electrical system voltage. Check volts and engine speed.
	3. Too much power is being drawn from the auxillary outlets.
	4. A circuit breaker or breakers are defective.
NO LIGHT	5. A capacitor or transformer has failed.
(ONE OR MORE	6. Plug and socket at light bar not securely pushed together and locked.
LIGHTS)	7. A loose connection in the back of the lamp socket in the lamp holder.
	8. If the lamps have been on before. Lamps are not allowed time to cool
	after last being lit. You must allow 15 minutes between the time the
	lights are shut off and the time they are restarted.
	9. A wrong style replacement lamp (requiring a different ballast) has been
	installed.
	10. Corrosion has occurred on the lamp bases.

MAINTENANCE RECORD

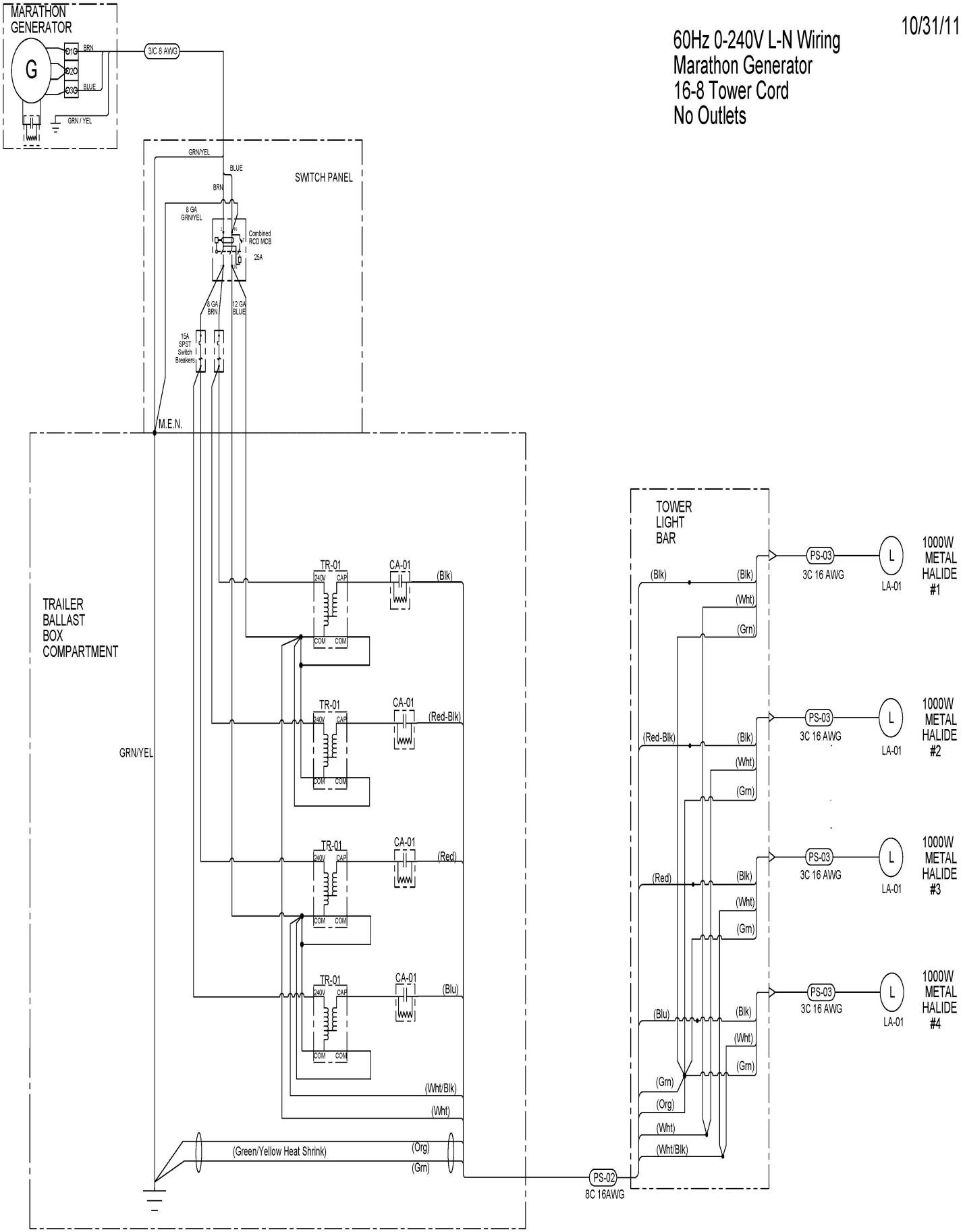
DATE	SERVICE DESCRIPTION	SERVICED BY

SCHEMATICS

CAT 1.5 ENGINE

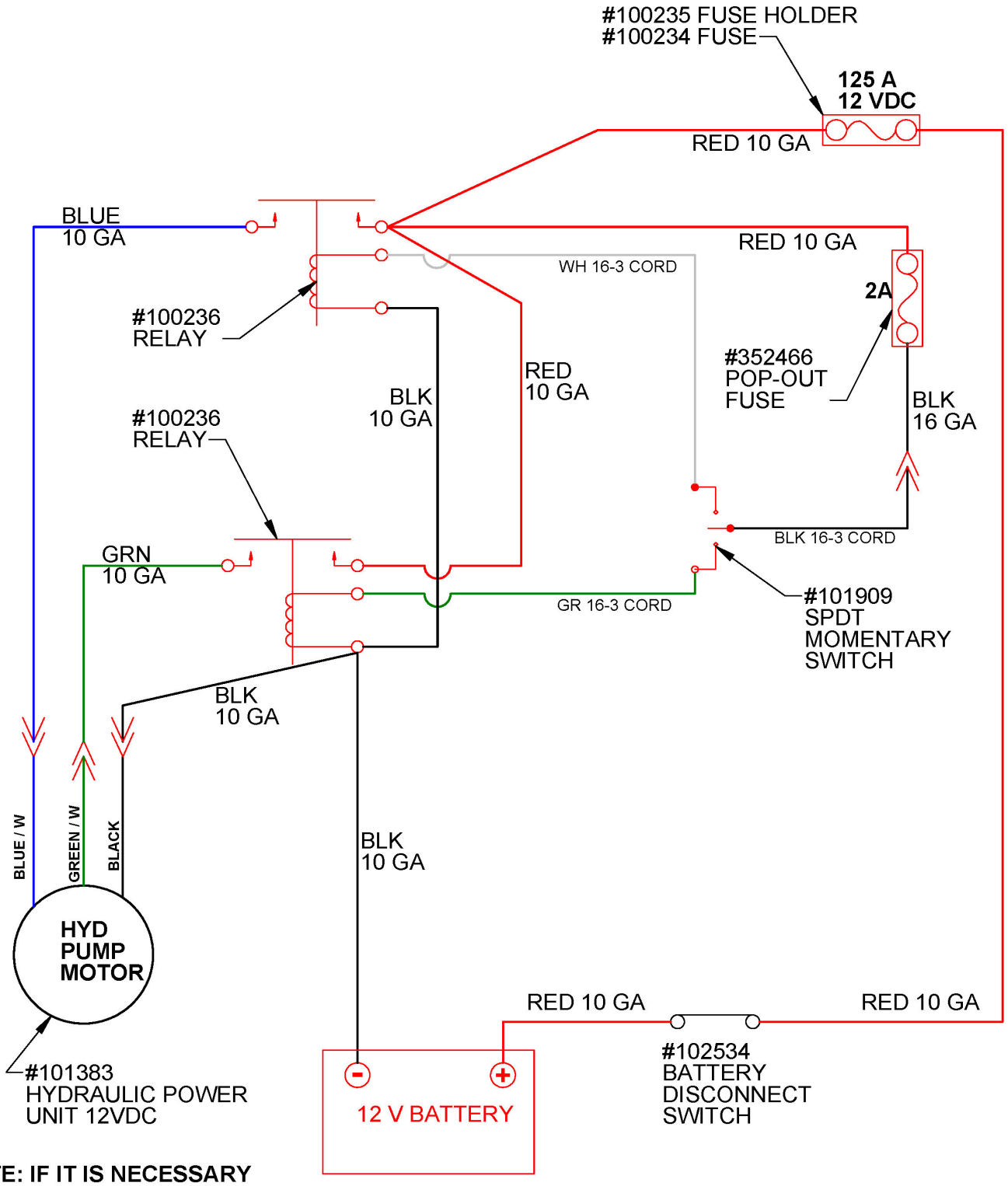


SCHEMATICS


10/31/11
60Hz 0-240V L-N Wiring
Marathon Generator
16-8 Tower Cord
No Outlets
MARATHON GENERATOR
G
BRN
BLUE
GRN / YEL
3/C 8 AWG
GRN/YEL
BLUE
BRN
SWITCH PANEL
8 GA GRN/YEL
Combined RCD MCB
25A
8 GA BRN
12 GA BLUE
15A SPST Switch Breakers
M.E.N.
TRAILER BALLAST BOX COMPARTMENT
GRN/YEL
TR-01
CA-01
240V
CAP
COM
(Blk)
(Red-Blk)
(Red)
(Blu)
(Wht/Blk)
(Wht)
(Green/Yellow Heat Shrink)
(Org)
(Grn)
PS-02
8C 16AWG
TOWER LIGHT BAR
PS-03
3C 16 AWG
L
LA-01
1000W METAL HALIDE #1
1000W METAL HALIDE #2
1000W METAL HALIDE #3
1000W METAL HALIDE #4

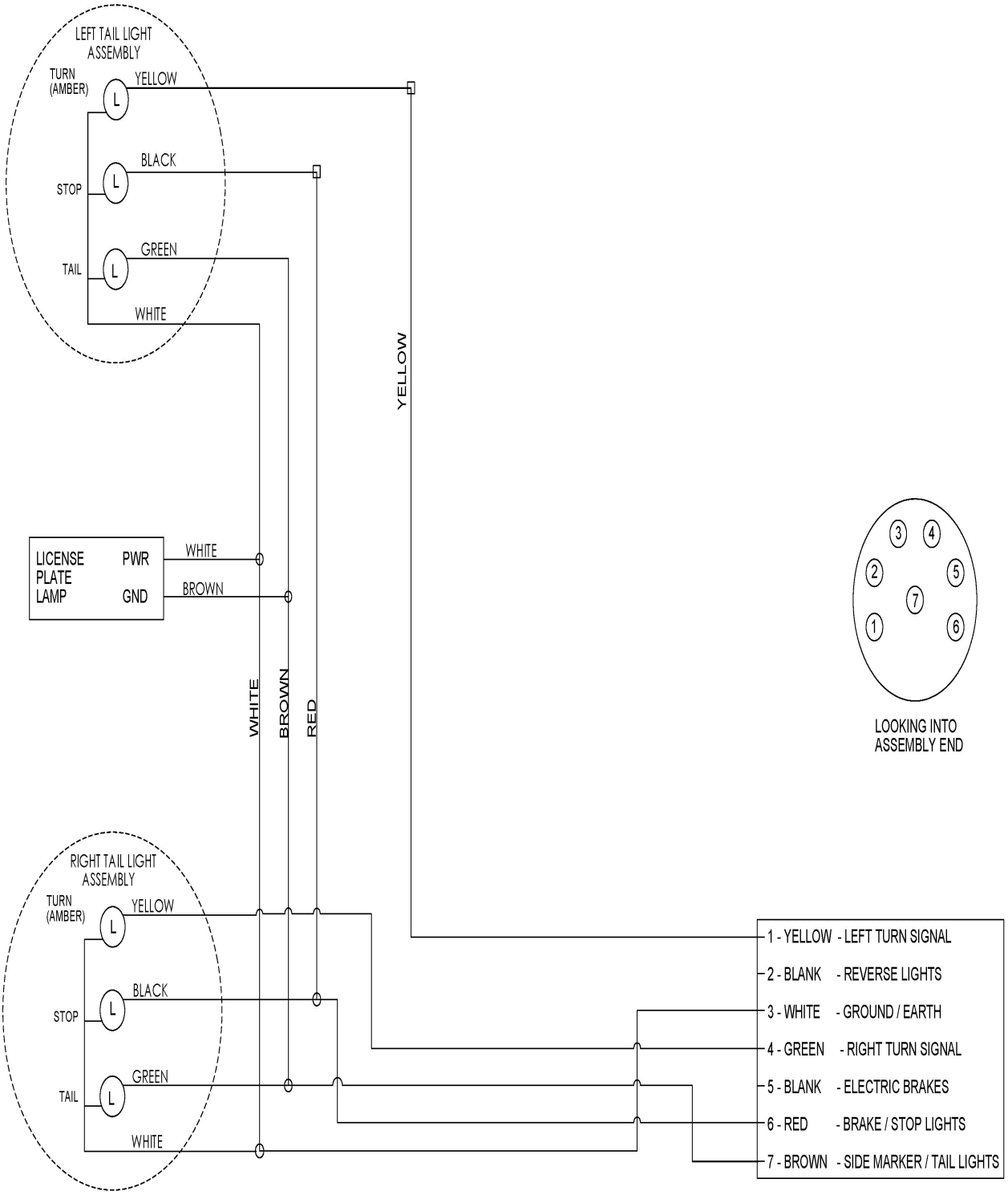
MAXI

V-SERIES MAXI HYDRAULIC W RELAY CONTROL
WIRING SCHEMATIC - **COMPONENTS**
8/10/09



NOTE: IF IT IS NECESSARY TO REVERSE PUMP DIRECTION, SWITCH BLUE/W & GREEN/W WIRES FROM PUMP MTR.

TAIL LIGHT WIRING



SHUTOFF VALVE ADJUSTMENT

ADJUSTMENT

Once the shutdown valve is installed, adjustment of the overspeed trip setting is carried out using the adjuster and locknut. Basically rotating the adjuster clockwise will increase the engine speed at which automatic shutdown occurs.

As supplied, the valve will be adjusted such that shut down will generally occur well below the engine high idle speed. To increase the speed at which automatic shut down occurs, proceed as follows:

1. Check that the manual shut down cable is in the run condition i.e. the “T” handle is pushed inward.
2. Start engine. Slowly accelerate. Note speed at which shut down occurs.
3. Remove hose at air inlet to shutdown valve to expose the adjuster and locknut.
4. Release locknut. Turn adjuster clockwise one turn. Tighten locknut.
5. Refit inlet hose to valve.
6. Start engine. Slowly accelerate. Note speed at which shut down occurs.
7. Repeat steps ‘3’ to ‘6’ until the first setting at which the engine does not shut down at high idle speed (i.e. full throttle, no load). Then either:

   a) Use the results of shut down speed verses adjuster setting as a calibration check to make a final adjustment to give the required setting (typically 10% to 15% over high idle).

   Or

   b) If a very precise setting is not required, turn the adjuster a further one turn clockwise to take the shut down above high idle speed by a suitable using this setting procedure it may be found that the engine occasionally shuts down during the normal operation. If so, turn the adjuster clockwise by a further one half turn.
8. Ensure the adjuster locknut is fully tightened. (Use a thread lock adhesive on the locknut threads).

Chg	Description	Date	ECO	Rev
SAS	NEW ENGINEERING SPEC	06-12-12	3562	A

Drawn By: SAS	Allmand™ Holdrege, Ne 68949 USA		
Date: 06-12-2012	Title: SHUTOFF VALVE ADJUSTMENT		
Weight: 0.0 LBS	Page 1 of 1	Part No: 104146	Rev A

WARRANTY

ALLMAND LIGHTING SYSTEMS
LIMITED WARRANTY
UNITED STATES and U.S. TERRITORIES

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR PURPOSE AND ANY EXCEPTIONS ARE DESCRIBED IN THE PUBLISHED LIMITED WARRANTY ADDENDUM, AVAILABLE UPON REQUEST.

COMPONENTS, SUB-ASSEMBLIES, AND DEVICES MANUFACTURED BY OTHER MANUFACTURERS *ARE NOT* COVERED BY THIS WARRANTY. ALL WARRANTY INFORMATION FROM SUCH OTHER MANUFACTURERS IS PROVIDED WITHIN OR ACCOMPANIES THESE GOODS.

Subject to the foregoing, the manufacturer, Allmand Bros. Inc., hereby warrants all light towers manufactured by Allmand Bros. Inc. after April 1, 2008 to be free from defects in material and workmanship for a period of (2) years after delivery to the original purchaser. The first year warranty would include parts and labor. The second year warranty would be limited to parts manufactured by Allmand Bros. Inc. and components warranted by the original equipment manufacturer for more than 12 months. Additionally, Allmand Bros. Inc. hereby warrants all replacement parts supplied by Allmand Bros. Inc. to be free from defects in material and workmanship for a period of 90 days after date of invoice. Delivery shall be deemed for the purposes of this warranty to have occurred no later than five days following the date of sale agreement or invoice unless the purchase agreement or invoice specifically states a later delivery date in which case such delivery date shall control. The original purchaser shall be deemed to be a person who places the goods or products in actual use, and any person holding such goods solely for wholesale or retail sale purposes shall not constitute an original purchaser. PROVIDED, any leasing of these goods or other use beyond normal demonstration of same shall be deemed to be in use by an original purchaser and all warranty periods shall commence at the time of such use. During the warranty period any defective goods or parts hereof shall be repaired or replaced at manufacturer's discretion. In the event it is necessary to return such goods or parts to the factory, all transportation charges shall be prepaid. The manufacturer shall in no event pay mileage expenses, but will warrant outbound ground freight. The manufacturer shall in no event be responsible for down time and or lost revenue.

The obligations of the manufacturer is solely to repair or replace defective goods or parts or to refund the cost of the same if it is determined by the manufacturer that repair or replacement will not return the goods to proper working order or utility. **THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE AND MANUFACTURER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES. THE OBLIGATIONS OF THE MANUFACTURER HEREUNDER SHALL IN NO WAY EXCEED THE PRICE OF THE EQUIPMENT OR PART UPON WHICH SUCH LIABILITY IS BASED.**

The warranty shall not extend to tires, lamps, batteries, or parts that have been altered, changed, damaged, or improperly installed, repaired, operated or maintained. Provided, this exclusion shall not apply to installations, repairs or other work done at the manufacturer's plant or under direct manufacturer's supervision. The Operator's Manual, to the extent covered therein, is deemed to set forth the proper procedures for operation, repair, installation, and maintenance of these goods.

No representative, dealer or distributor of the company is authorized to make any changes or exceptions to this warranty unless expressly authorized in writing from the manufacturer. All warranty claims must be filed within thirty (30) days of the failure.

LIGHTING SYSTEMS
LIMITED WARRANTY ADDENDUM

THIS IS AN ADDENDUM TO THE BASIC ALLMAND LIMITED WARRANTY OF TWO (2) YEARS AFTER DELIVERY TO THE ORIGINAL PURCHASER.

The following manufacturers limited warranty policy warrants their components to be free from defects in material and workmanship from date of manufacture as follows (see specific manufacturer's warranty for details):

CATERPILLAR	TWO (2) YEAR LIMITED	2000 HOURS
KUBOTA	THREE (3) YEAR LIMITED	3000 HOURS
LOMBARDINI	THREE (3) YEAR LIMITED	3000 HOURS
ISUZU 3CD	TWO (2) YEAR LIMITED	2000 HOURS
ISUZU 4LE	FIVE (5) YEAR LIMITED	5000 HOURS

ADVANCE BALLAST	TWO (2) YEAR LIMITED	--
MARATHON	TWO (2) YEAR LIMITED	1000 HOURS
MECC ALTE	ONE (1) YEAR LIMITED	--
STAMFORD	ONE (1) YEAR LIMITED	--
LIGHT TOWER ASSEMBLY	TEN (10) YEARS	FAILURE TO OPERATE DUE TO CORROSION

No representative, dealer, or distributor of the company is authorized to make any changes or exceptions to this warranty unless expressly authorized in writing from the manufacturer. All warranty claims must be filed within thirty (30) days of failure.

Please call the Allmand Service and Warranty Department for specific manufacturer's warranty terms and schedules. All warranties are subject to change without notice.

Limited Warranty LIGHTING SYSTEMS Addendum 4/08

MLFCS MINE SPEC II

AUSTRALIAN STANDARD

PARTS MANUAL

ALLMAND BROTHERS INC.

P.O. BOX 888

HOLDREGE, NE 68949

PHONE: (308) 995- 4495, 1- 800- 562- 1373

ALLMAND FAX: (308) 995– 5887

ALLMAND PARTS DEPT. FAX : (308) 995– 4883

www.allmand.com

PART NO. 104824 REVISED: JUNE 2013

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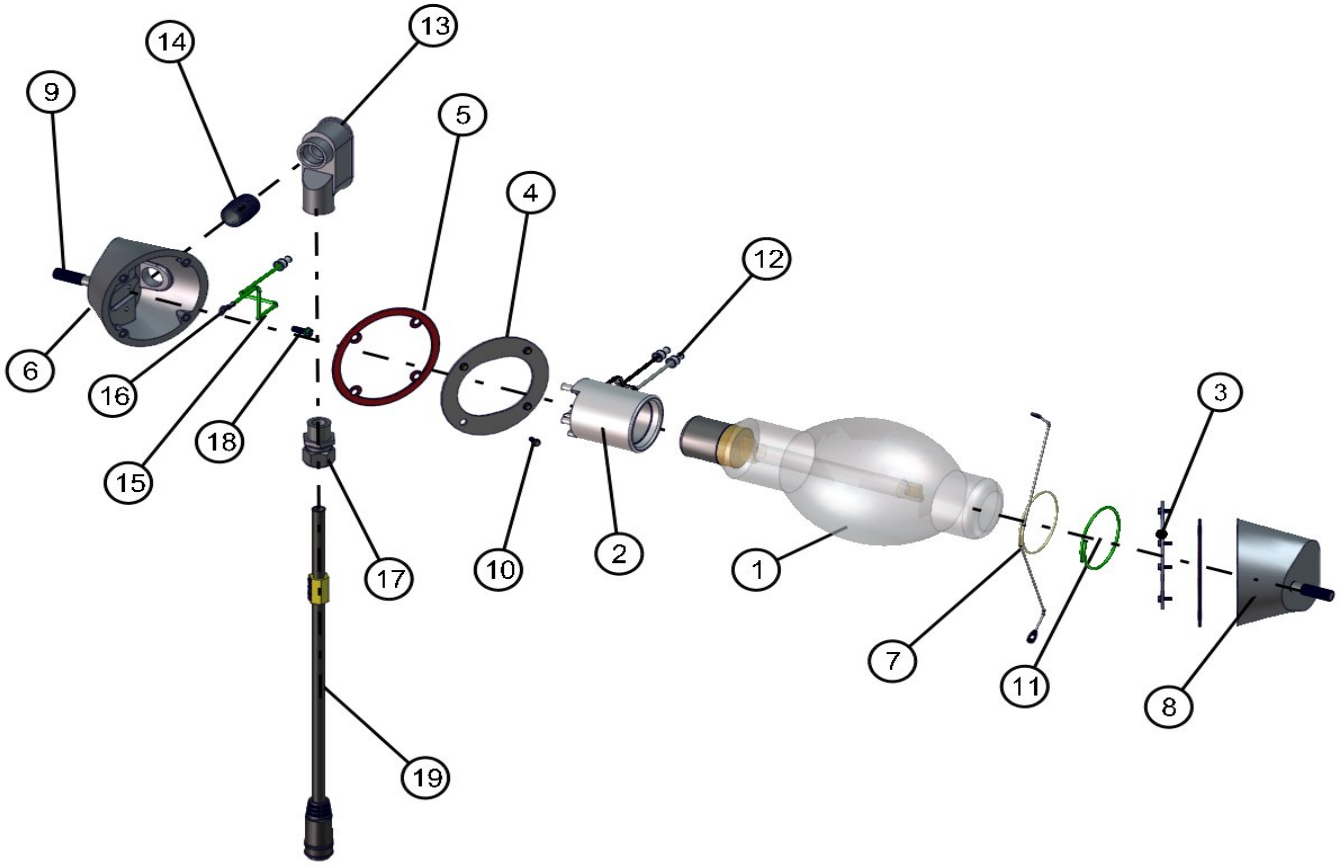
1250W SHO LAMP
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	610221	LAMP 1250W BT37
2	1	610212	CERAMIC SOCKET
3	1	610207	INTERIOR COVER PLATE
4	1	610208	INTERIOR COVER PLATE
5	2	610213	GASKET
6	1	610205	SOCKET END CAP, w. STOP BOSS
7	1	610209	LAMP SUPPORT TIP
8	1	610206	SOCKET END CAP, w. STOP BOSS
9	2	045142	STUD 3/8-24 X 3/8-16 X 2"
10	8	041028	10-24 X 1/2 HEX MACH SCREW

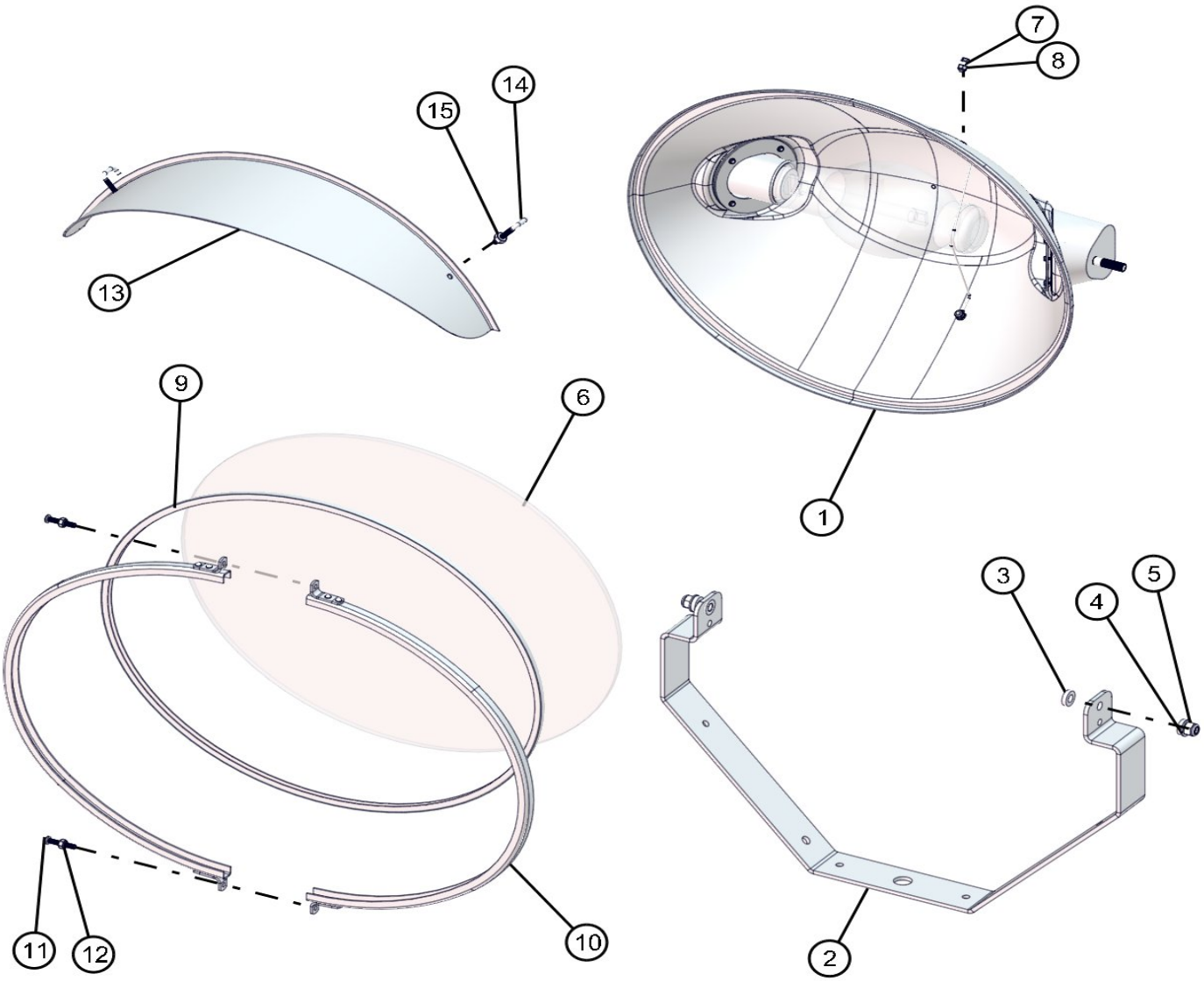
NO	QTY	PARTNO	DESCRIPTION
11	1	610210	FIBERGLASS MESS TUBE 12"
12	3	022060	WIRE CAP SMALL
13	1	610214	ELBOW
14	1	610215	NIPPLE
15	1	610219	14 AWG GREEN 6"
16	1	022155	#10 ELEC. RING
17	1	510007	1/2 DIA CORD GRIP
18	1	041257	10-32 GROUND SCREW
19	1	310434	MALE CONNECTOR CABLE (OPTION)

NS - 100623 LAMPHOLDER ASSEMBLY W/ QD, YOKE, LAMP

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

SHO LAMPHOLDER
ML FCS MINE SPEC II SERIES

6/6/13



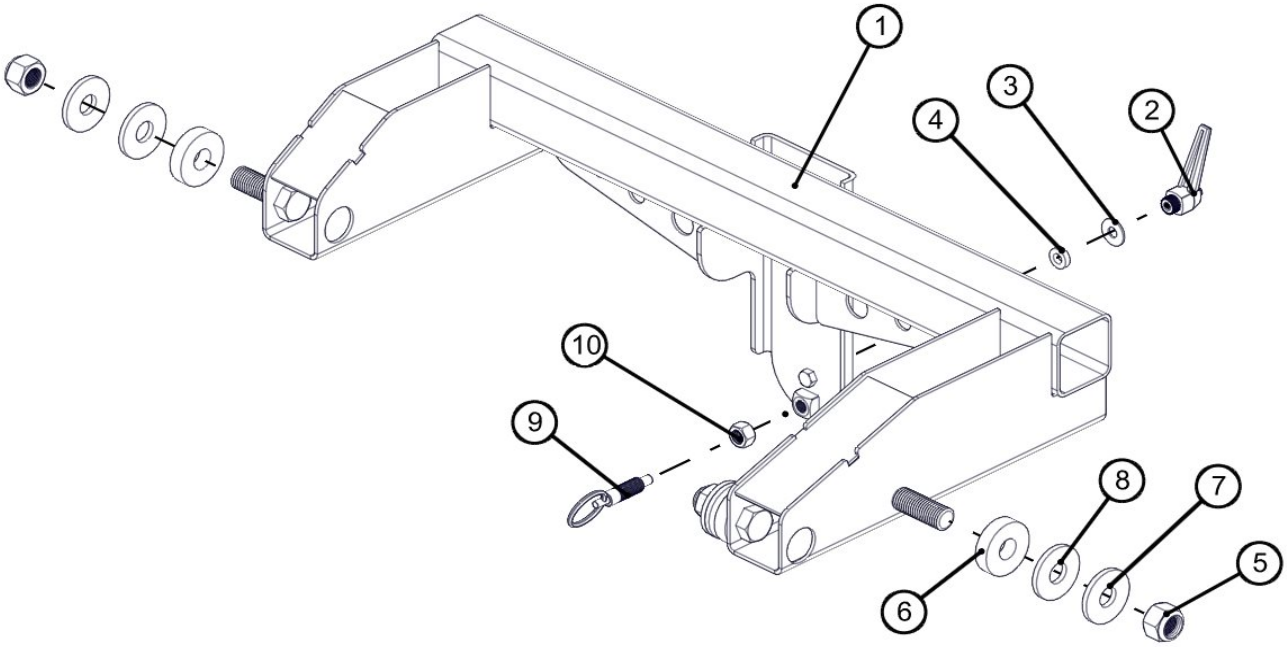
NO	QTY	PARTNO	DESCRIPTION
1	1	610201	REFLECTOR
2	1	660130P	SOLID MOUNT YOKE
3	4	047019	3/4 OD X .385 ID NYLON BUSHING
4	2	047016	3/8 SAE FLAT WASHER
5	2	044037	3/8-24 NYLOC HEX NUT
6	1	610203	LENS FROSTED
7	2	041200	8-32 X 1/2 HEX HEAD MS
8	2	044013	#8-32 NYLOCK HEX NUT
9	1	610217	SILICONE GASKET
10	2	610202	LENS CHANNEL
11	2	041036	10-24 X 1 1/4 PH-ROUND HEAD MS SS
12	2	044019	10-24 NYLOC HEX NUT
13	1	610017	SAF-T VISOR (OPTION)
14	2	045070	#10-24 HOOK SQ BD BOLT (OPTION)
15	2	044023	1/4-20 NYLOCK HEX NUT (OPTION)

NS - 610017A SAF-T-VISOR SET OF 4 W/ HARDWARE

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

LIGHT FIXTURE BRACKET
ML FCS MINE SPEC II SERIES

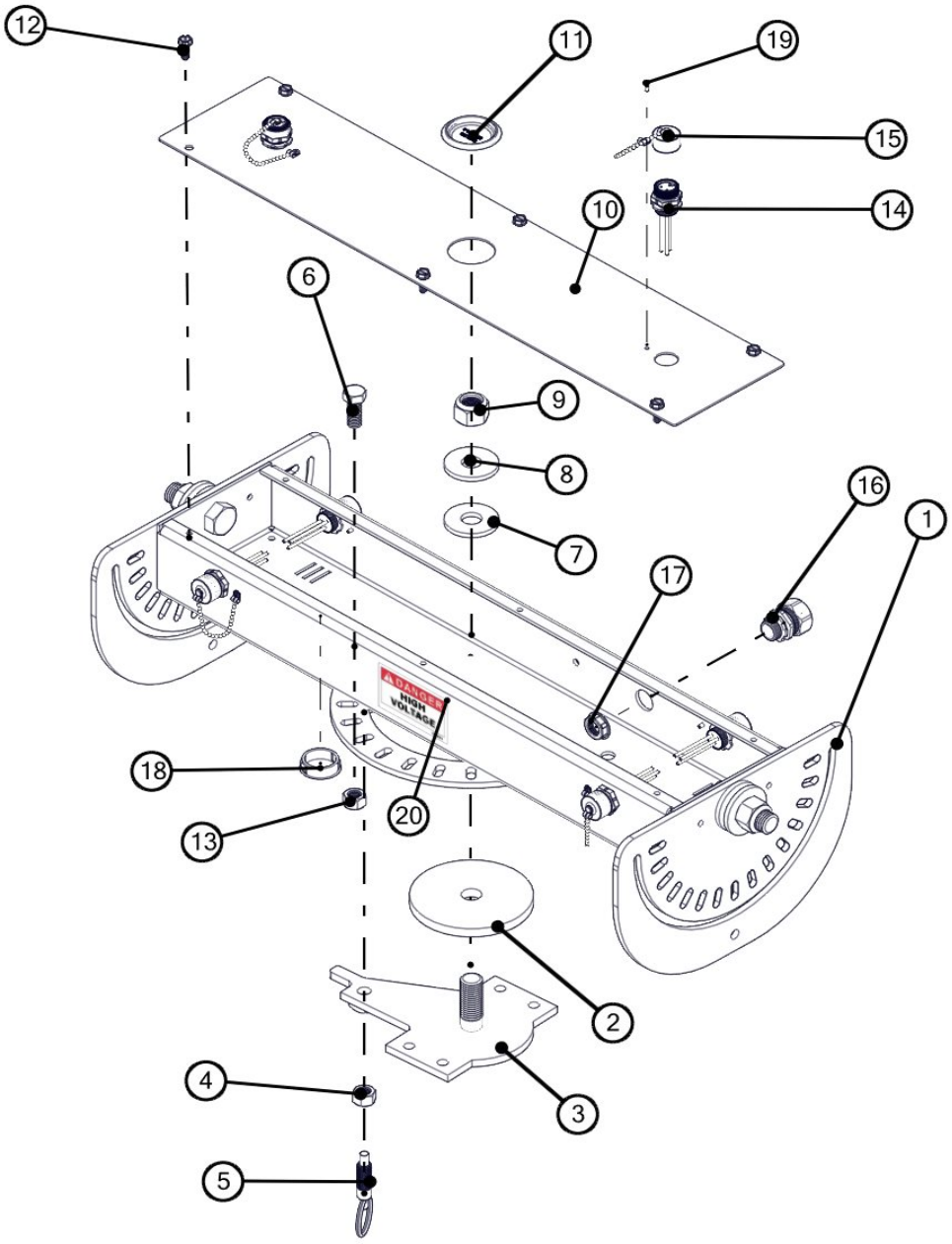
6/6/13



NO	Qty	PARTNO	DESCRIPTION
1	1	104006P	6 LIGHT FIXTURE BRKT
2	1	102361	ADJUSTABLE LEVER PUSH BUTTON
3	1	047015	3/8 FLAT WASHER PL
4	1	047019	3/4 OD X .385 ID NYLON BUSHING
5	3	044048	3/4-10 NYLOCK HEX NUT PL
6	3	101813	.781 ID x 2 OD x 1/2 HDPE WASHER
7	3	047035	3/4 FLAT WASHER PL
8	3	650550	.785" x 2" HDPE WASHER
9	1	100148	SPRING LOCK 1/2-13 X 1.4
10	1	044045	1/2-13 HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

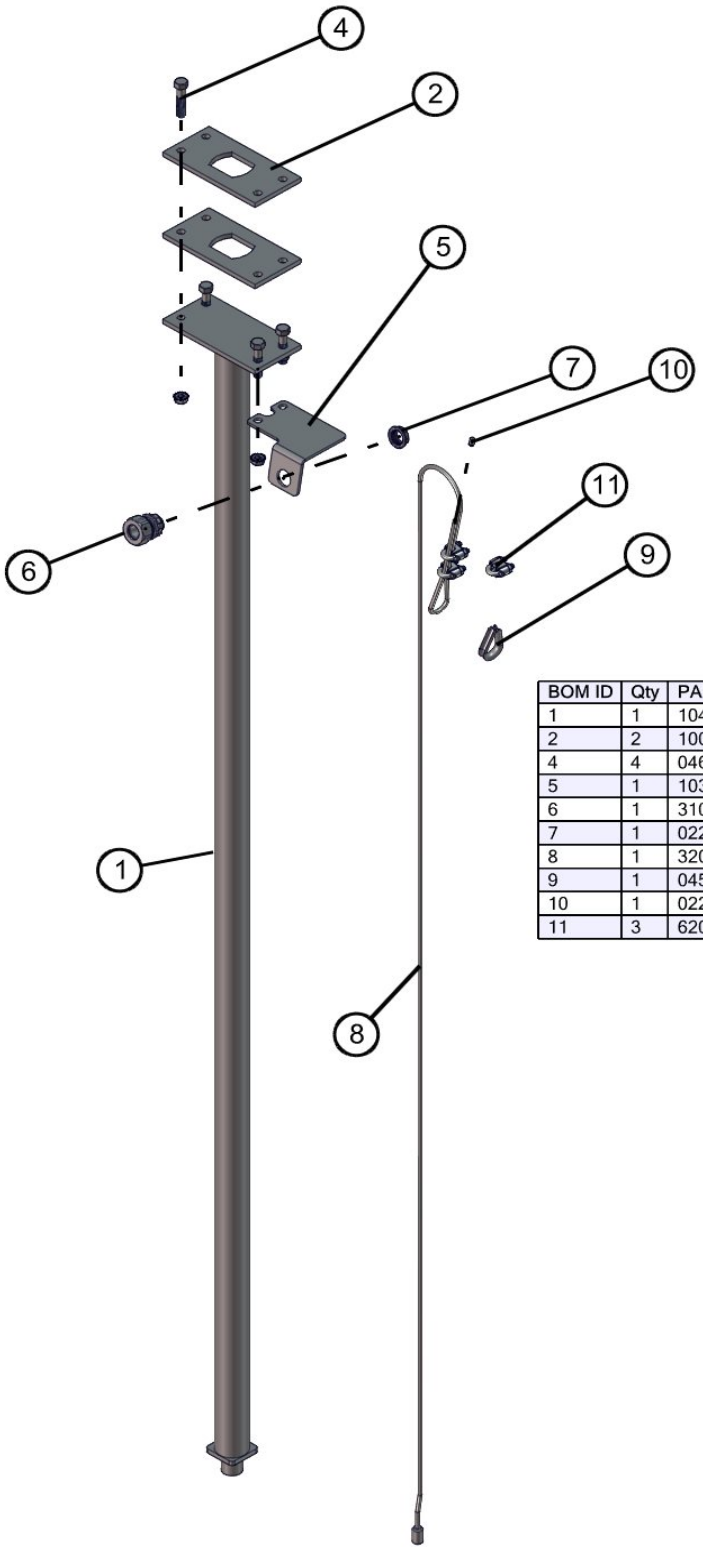
ROTATIONAL LIGHT BAR
ML FCS MINE SPEC II SERIES



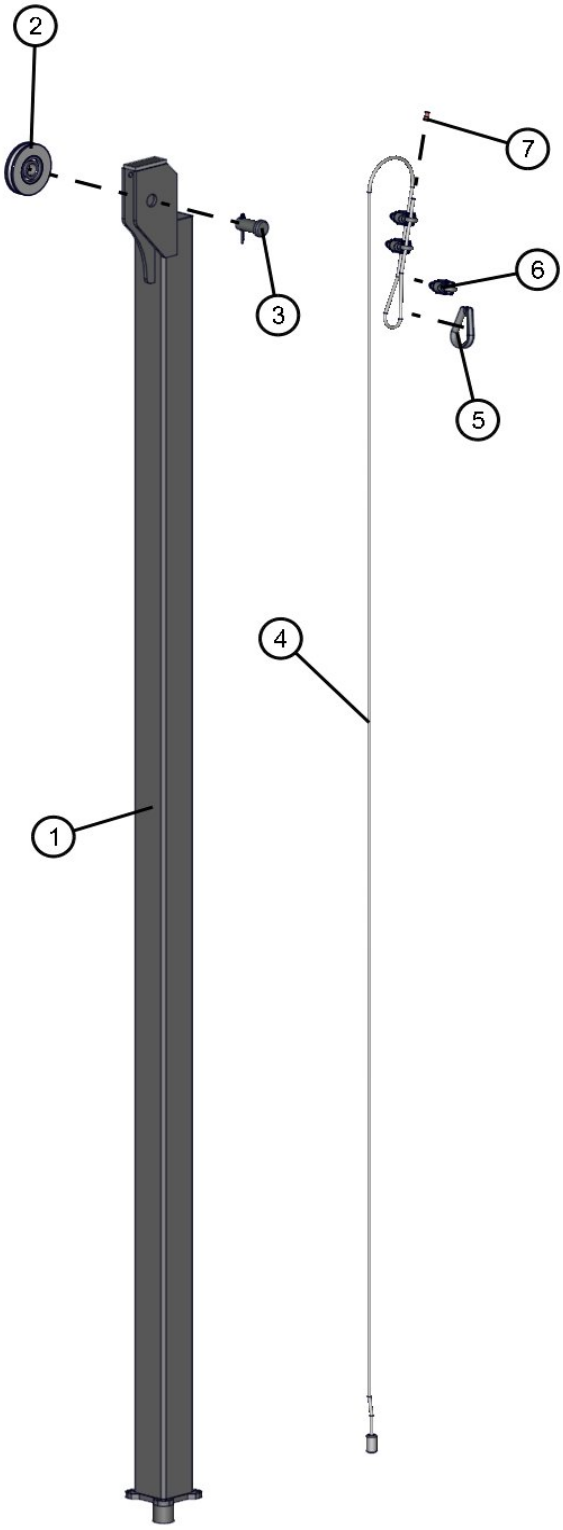
BOM ID	Qty	PARTNO	NAME
1	1	104008P	LIGHT BAR WELDMENT
2	1	100147	UHMW BEARING TWR ROTATION
3	1	100143P	ROTATION MOUNT
4	1	044045	1/2-13 HEX NUT PL
5	1	100148	SPRING LOCK 1/2-13 X 1.4
6	1	046180	1/2-13 X 1 1/4 HEX HEAD CS GR5 PL
7	3	650550	.785" x 2" HDPE WASHER
8	3	047035	3/4 FLAT WASHER PL
9	3	044048	3/4-10 NYLOCK HEX NUT PL
10	1	104063P	LIGH BAR COVER
11	1	680878	1 3/4 CAPLUG

BOM ID	Qty	PARTNO	NAME
12	6	041070	1/4-20 x 3/4 SL-HEX WASHER HEAD MS TP F
13	1	044045	1/2-13 HEX NUT PL
14	6	310414	QD CONNECTOR FEMALE
15	6	310413	CAP QUICK DISCONNECT
16	1	310033	1/2 CORD GRIP
17	1	022415	1/2 INSULATING BUSHING
18	1	064040	1 3/8 CAP PLUG
19	6	045116	1/8 X 1/4 BLIND RIVET
20	2	090002	HIGH VOLTAGE DANGER DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

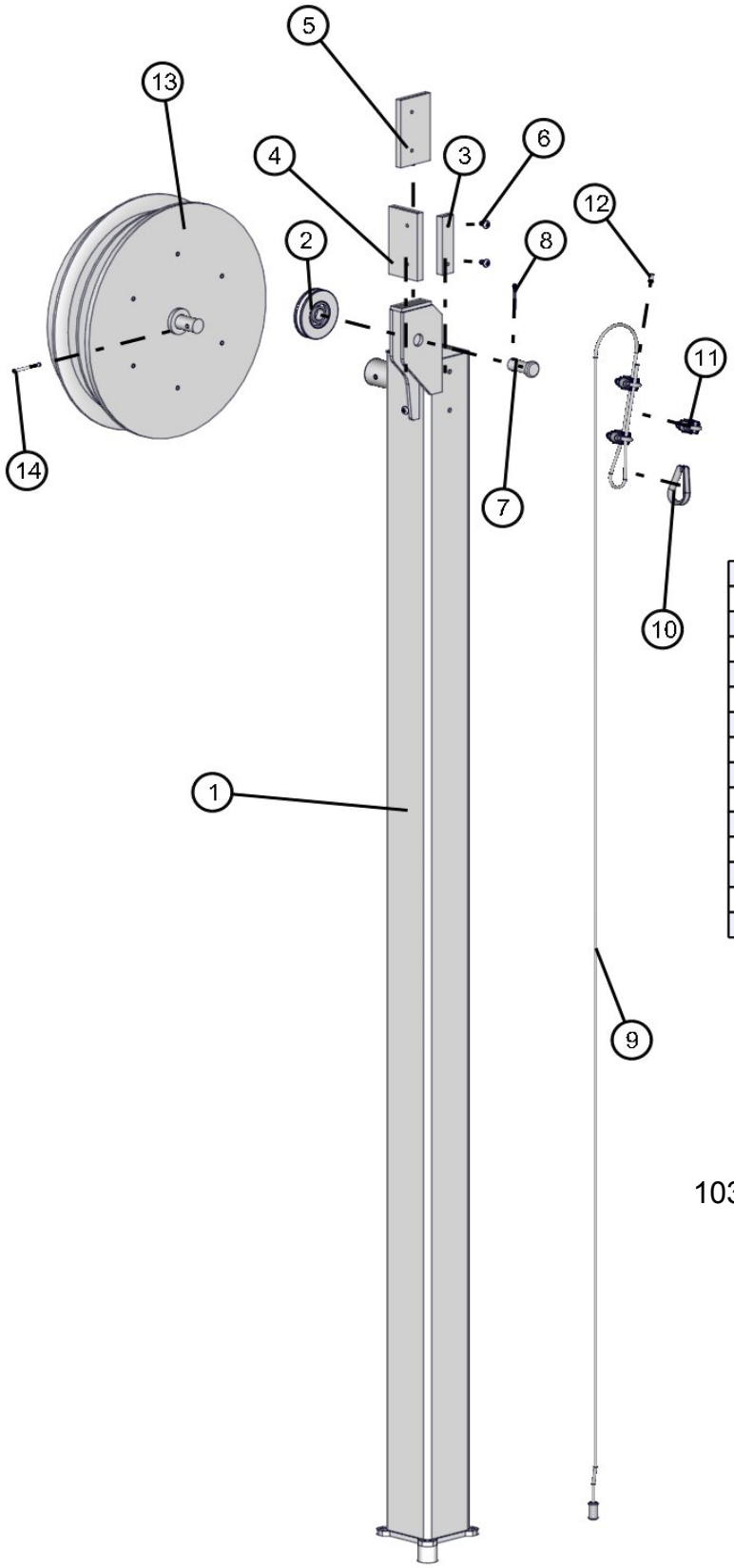


BOM ID	Qty	PARTNO	NAME
1	1	104053P	ROUND SECTION OPTION
2	2	100104P	BRACKET LIGHT BAR SEC7
4	4	046126	3/8-16 x 1 3/4 HEX HEAD CS GR5 PL
5	1	103191P	VT2 CORD REEL ROUND SECTION CORD GRIP BRACKET
6	1	310033	1/2 CORD GRIP
7	1	022415	1/2 INSULATING BUSHING
8	1	320185	3/16 X 10' STEEL CABLE
9	1	045040	3/16 CABLE THIMBLE
10	1	022150	FERRULE 10-12 AWG
11	3	620084	1/4 CABLE CLIP



NO	QTY	PARTNO	DESCRIPTION
1	1	102968P	2" SECTION
2	1	100160	2 1/2 PULLEY BALL BEARING
3	1	102906	5/8 X 1 1/4 CLEVIS PIN
4	1	320185	3/16 X 10' STEEL CABLE
5	1	045040	1/4 CABLE THIMBLE
6	3	620084	1/4 CABLE CLIP
7	1	022150	FERRULE 10-12 AWG

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

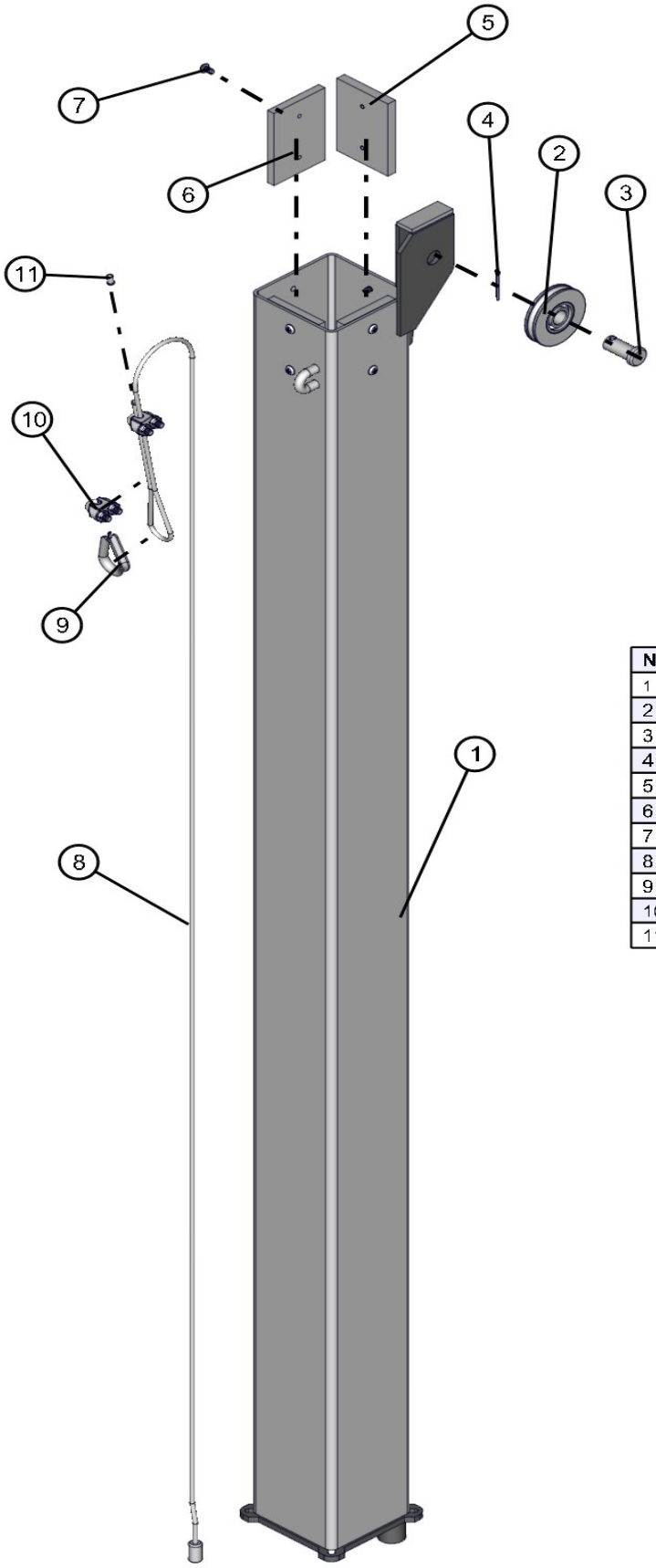


NO	QTY	PARTNO	DESCRIPTION
1	1	102965P	3" SECTION
2	1	100160	2 1/2 PULLEY BALL BEARING
3	1	100062	3/8 UHMW SPACER
4	1	100446	3/8 PAD
5	2	352280	5/16 PAD
6	8	041023	#10 X 3/8 PH-ROUND HEAD MS PL
7	1	102906	5/8 X 1 1/4 CLEVIS PIN
8	1	045045	5/32 X 1 1/2 COTTER PIN
9	1	320185	3/16 X 10' STEEL CABLE
10	1	045040	1/4 CABLE THIMBLE
11	3	620084	1/4 CABLE CLIP
12	1	022150	FERRULE 10-12 AWG
13	1	320410P	CORD REEL
14	1	320453	3/16 X 1 3/4 SPRING ROLL PIN

103542 CORD REEL AND CORD

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

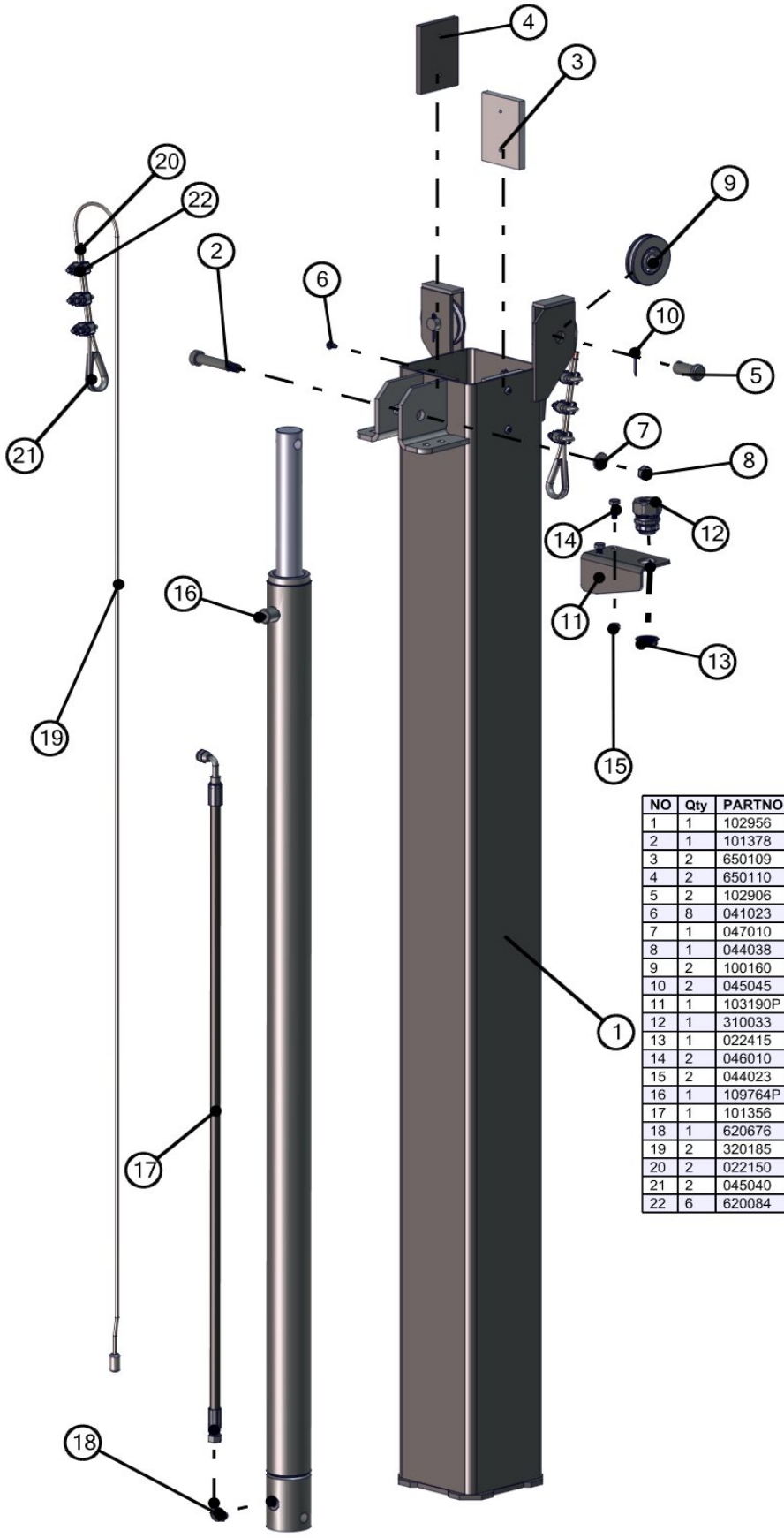
SECTION 3
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	102961P	4" SECTION
2	1	100160	2 1/2 PULLEY BALL BEARING
3	1	102906	5/8 X 1 1/4 CLEVIS PIN
4	1	045045	5/32 X 1 1/2 COTTER PIN
5	2	650109	3/8 PAD
6	2	650110	5/16 PAD
7	8	041023	#10 X 3/8 PH-ROUND HEAD MS PL
8	1	320185	3/16 CABLE X 10'
9	1	045040	1/4 CABLE THIMBLE
10	2	620084	1/4 CABLE CLIP
11	1	022150	FERRULE 10-12 AWG

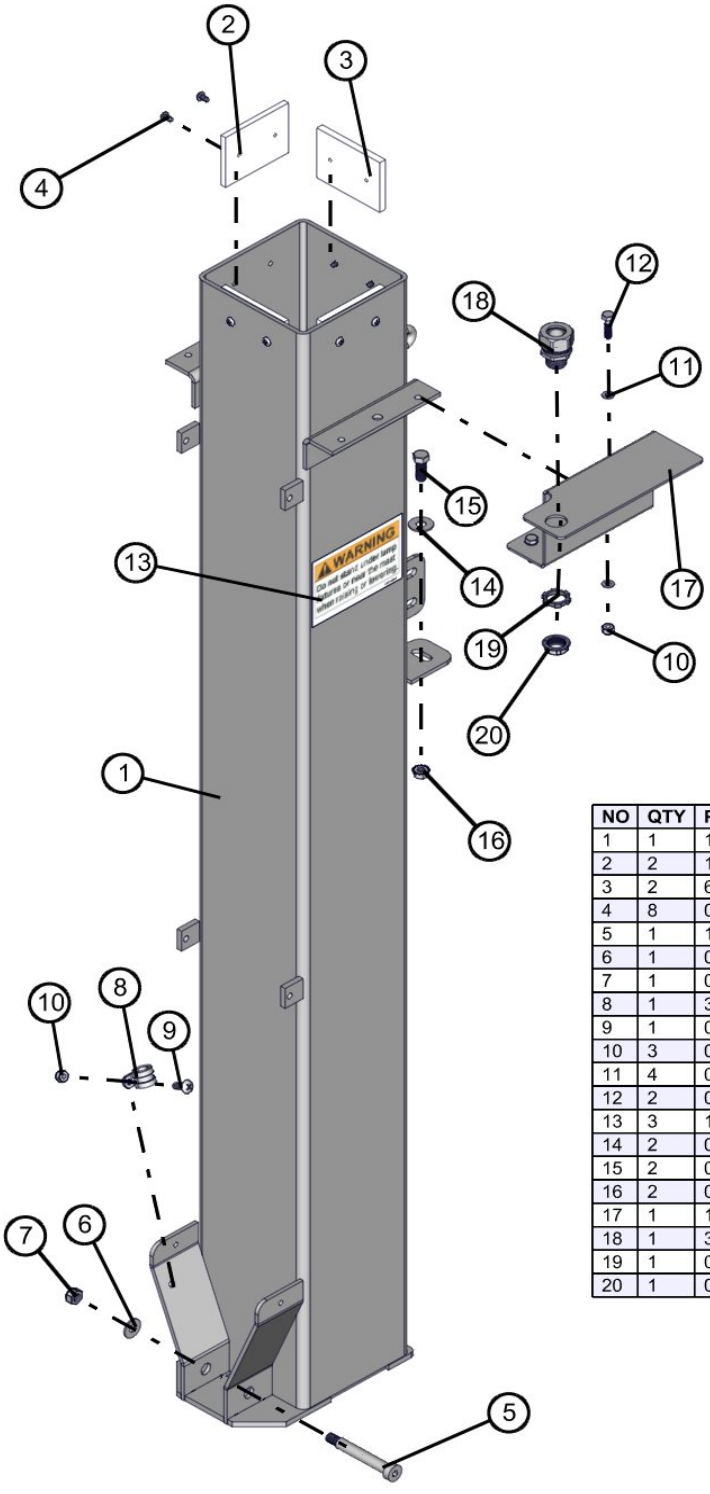
NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

SECTION 2
ML FCS MINE SPEC II SERIES



NO	Qty	PARTNO	NAME
1	1	102956	VT2 5" SECTION
2	1	101378	1/2 X 2 (3/8-16 X 5/8) HX-SOCKET HEAD SHOULDER BOLT
3	2	650109	.375 TOWER PAD
4	2	650110	.312 TOWER PAD
5	2	102906	5/8 X 1 1/4 CLEVIS PIN
6	8	041023	#10 X 3/8 PH-ROUND HEAD MS PL
7	1	047010	5/16 FLAT WASHER PL
8	1	044038	3/8-16 NYLOCK HEX NUT PL
9	2	100160	2 1/2 PULLEY BALL BEARING
10	2	045045	5/32 X 1 1/2 COTTER PIN
11	1	103190P	VT2 CORD REEL 5" SECTION 2 CORD GRIP BRACKET
12	1	310033	1/2 CORD GRIP
13	1	022415	1/2 INSULATING BUSHING
14	2	046010	1/4-20 X 3/4 HEX HEAD CS GR5 SS
15	2	044023	1/4-20 NYLOCK HEX NUT PL
16	1	109764P	VT2 HYDRAULIC CYLINDER
17	1	101356	HYDRAULIC HOSE 4FJX - 4FJX90S -
18	1	620676	4MBO-4FJX 90° HYDRAULIC FITTING
19	2	320185	3/16 CABLE 10' STEEL
20	2	022150	FERRULE 10-12 AWG
21	2	045040	3/16 CABLE THIMBLE
22	6	620084	1/4 CABLE CLIP

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”



NO	QTY	PARTNO	DESCRIPTION
1	1	104036P	6" SECTION
2	2	102954	1/4 PAD
3	2	650110	5/16 PAD
4	8	041023	#10 X 3/8 PH-ROUND HEAD MS PL
5	1	101379	1/2 X 2 3/4 (3/8-16 X 5/8) HX-SOCKET HEAD SHOULDER BOLT
6	1	047010	5/16 FLAT WASHER PL
7	1	044038	3/8-16 NYLOCK HEX NUT PL
8	1	310212	#10 CUSH CLAMP 1/4 HOLE
9	1	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
10	3	044023	1/4-20 NYLOCK HEX NUT PL
11	4	047009	1/4 FLAT WASHER SAE SS
12	2	046015	1/4-20 X 1 HEX HEAD CS GR5 PL
13	3	101404	DO NOT STAND DECAL
14	2	047015	3/8 FLAT WASHER PL
15	2	046110	3/8-16 X 1 HEX HEAD CS GR5 PL
16	2	044036	3/8-16 KEPS HEX NUT PL
17	1	103301P	BRACKET
18	1	310033	1/2 CORD GRIP
19	1	022035	1/2 CORD GRIP NUT
20	1	022415	1/2 INSULATING BUSHING

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

HYDRAULIC VERTICAL TOWER

Section 6 -

Remove cable clamps (2) from section 4.
Remove section 6.
Remove all broken and frayed cable.
Replace new cable into slot in the bottom of section 6.
Replace section 6 into section 5.
Route cable through pulley bracket on section 5.
With all sections pushed together tight, insert cable through half-link on section 5.
Replace cable clips.

Section 5 -

Remove cable clamps (2) from section 3.
Remove machine screws (8) and pads (4) from section 4. *Being careful not to drop them into lower tower sections*
Remove section 5.
Remove all broken and frayed cable.
Replace new cable into slot in the bottom of section 5.
Replace section 5 into section 4.
Route cable through pulley bracket on section 4.
With all sections pushed together tight, insert cable through half-link on section 3.
Replace cable clips.
Replace tower pads and screws. *Be careful not to drop them into lower tower sections.*

Section 4 -

Remove cable clamps (2) from section 2.
Remove machine screws (8) and pads (4) from section 3. *Being careful not to drop into lower tower sections*
Remove section 4.
Remove all broken and frayed cable.
Replace new cable into slot in the bottom of section 4.
Replace section 4 into section 3.
Route cable through pulley bracket on section 3.
With all sections pushed together tight, insert cable through half-link on section 2.
Replace cable clips.
Replace tower pads and screws. *Be careful not to drop them into lower tower sections.*

HYDRAULIC VERTICAL TOWER

Section 3 -

Remove cable clamps (6) from section 1.
Remove machine screws (8) and pads (4) from section 2. *Being care full not to drop into lower tower sections*
Remove section 3.
Remove all broken and frayed cable.
Replace new cable into slot in the bottom of section 3.
Replace section 3 into section 2.
Route cables through pulley brackets on section2.
With all sections pushed together tight, insert cables through half-link on section 1.
Replace cable clips.
Replace tower pads and screws. *Be careful not to drop them into lower tower sections.*

Note:

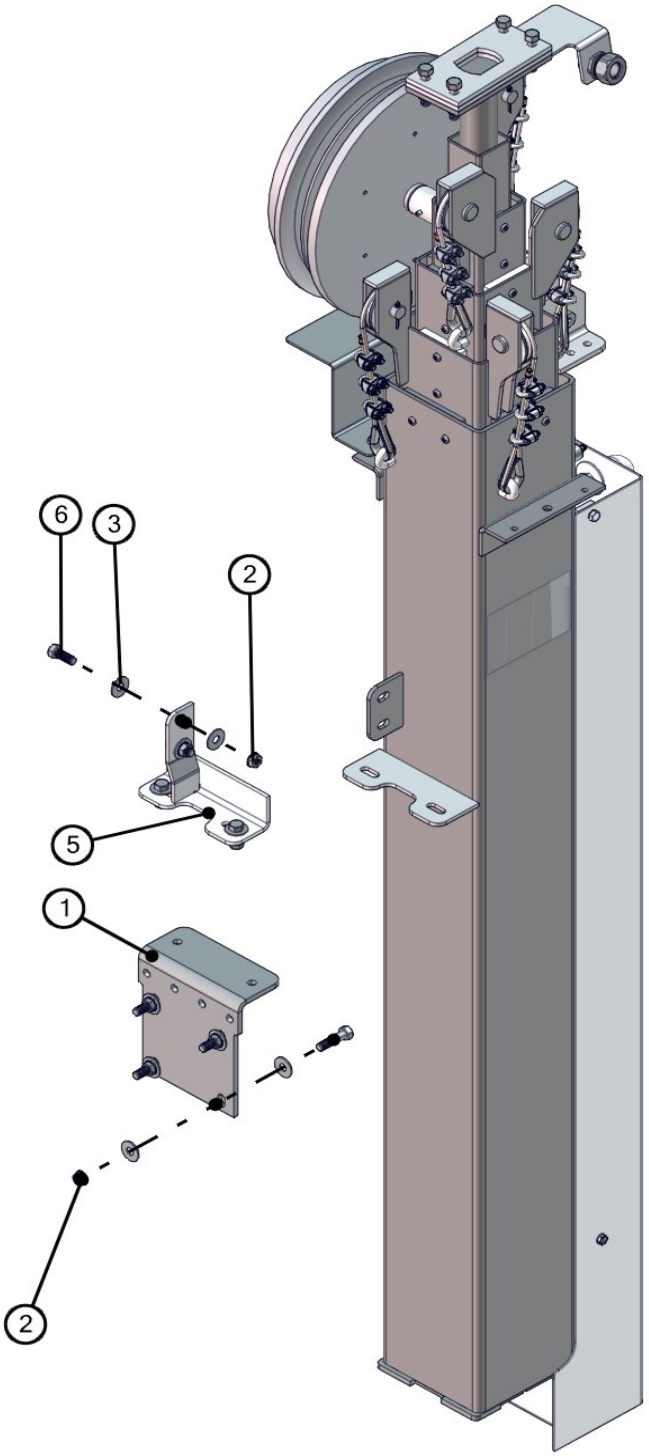
If broken cable, tower pads or pad screw happen to fall into lower sections they must be retrieved . Damage to tower sections or other moving parts may occur.

Note:

When replacing tower section cables, the tower sections above the cable being replaced should be removed.

VERTICAL TOWER REINFORCEMENT
ML FCS MINE SPEC II SERIES

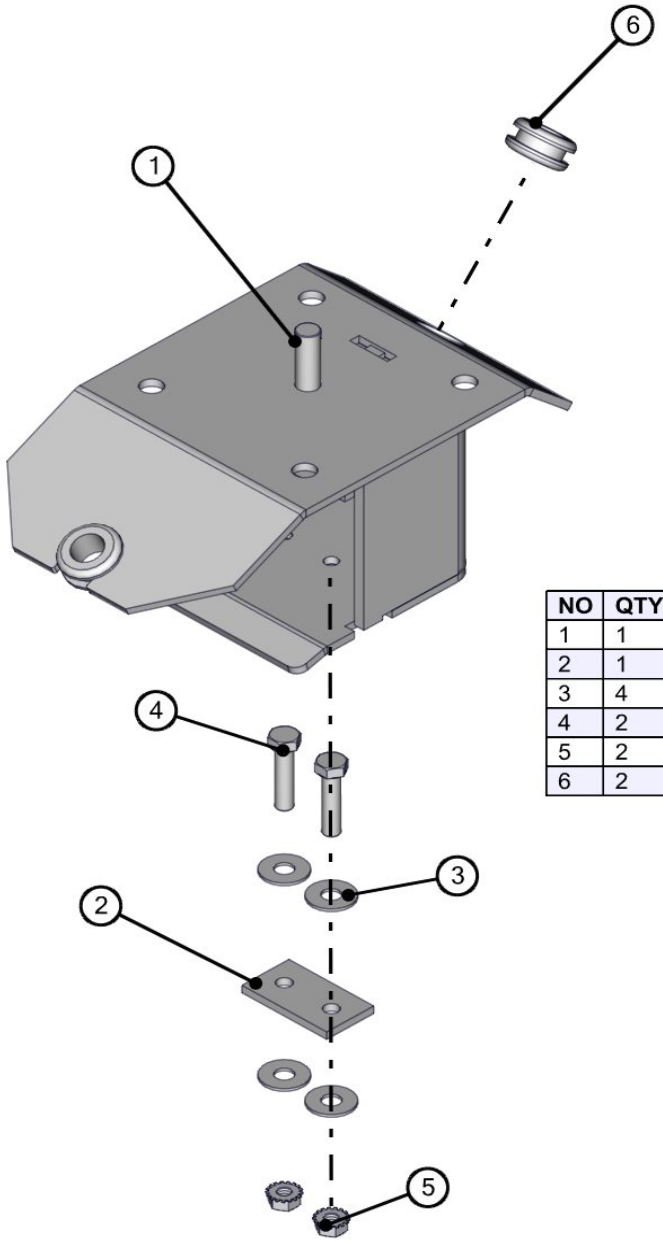
6/6/13



NO	Qty	PARTNO	DESCRIPTION
1	1	100244P	ANGLE MOUNTING BRKT TOWER ATTACHMENT
2	8	044036	3/8-16 KEPS HEX NUT PL
3	14	047015	3/8 FLAT WASHER PL
5	1	101410P	TOWER MOUNT REINFORCEMENT
6	4	046110	3/8-16 X 1 HEX HEAD CS GR5 PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

TOWER PEDESTAL
ML FCS MINE SPEC II SERIES

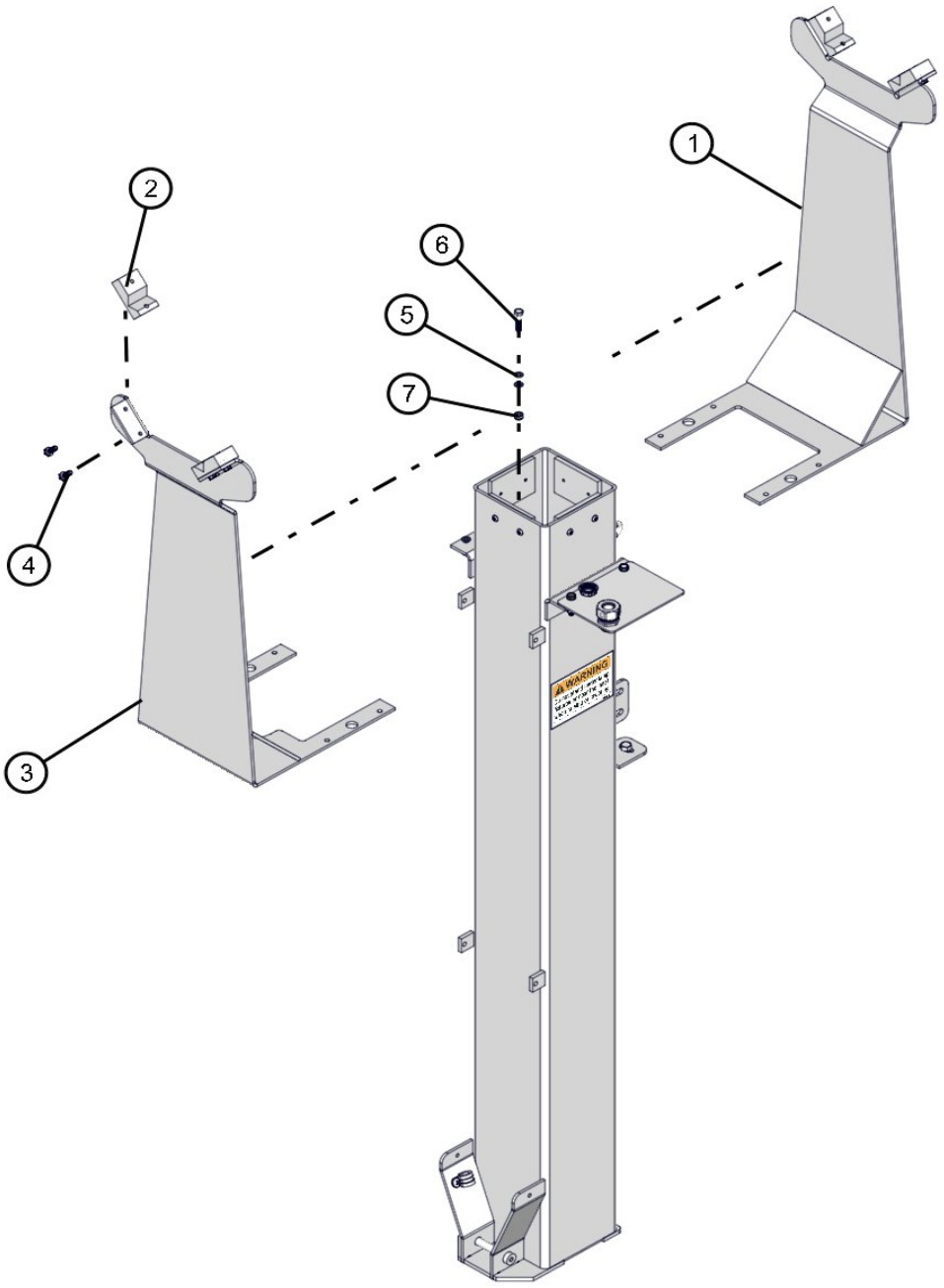


NO	QTY	PARTNO	DESCRIPTION
1	1	101406P	TOWER PLATFORM
2	1	101629P	COVER PLATE
3	4	047015	3/8 FLAT WASHER
4	2	046120	3/8-16 X 1 1/2 HEX HEAD CS GR5 PL
5	2	044036	3/8-16 KEPS NUT
6	2	330463	11/16 RUBBER GROMMET

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

ROTATIONAL LIGHT BAR SUPPORT
ML FCS MINE SPEC II SERIES

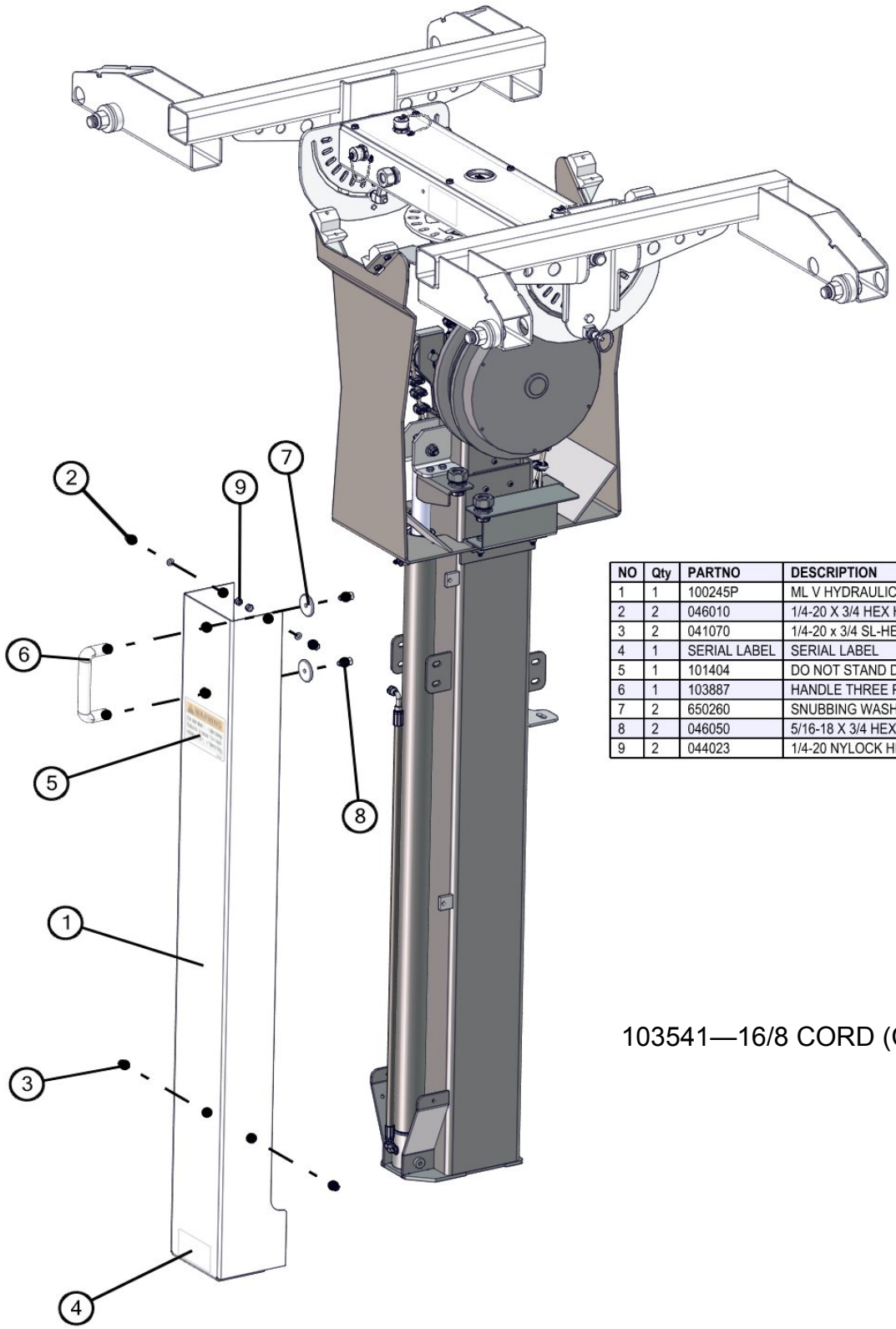
6/6/13



NO	QTY	PARTNO	DESCRIPTION
1	1	103481P	BRACE
2	4	103497	PAD
3	1	103482P	BRACE
4	8	041070	1/4-20 x 3/4 SL-HEX WASHER HEAD MS TP F
5	8	047009	1/4 FLAT WASHER SAE SS
6	4	046020	1/4-20 X 1 1/4 HEX HEAD CS GR5 PL
7	4	044023	1/4-20 NYLOCK HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

HYDRAULIC COVER
ML FCS MINE SPEC II SERIES

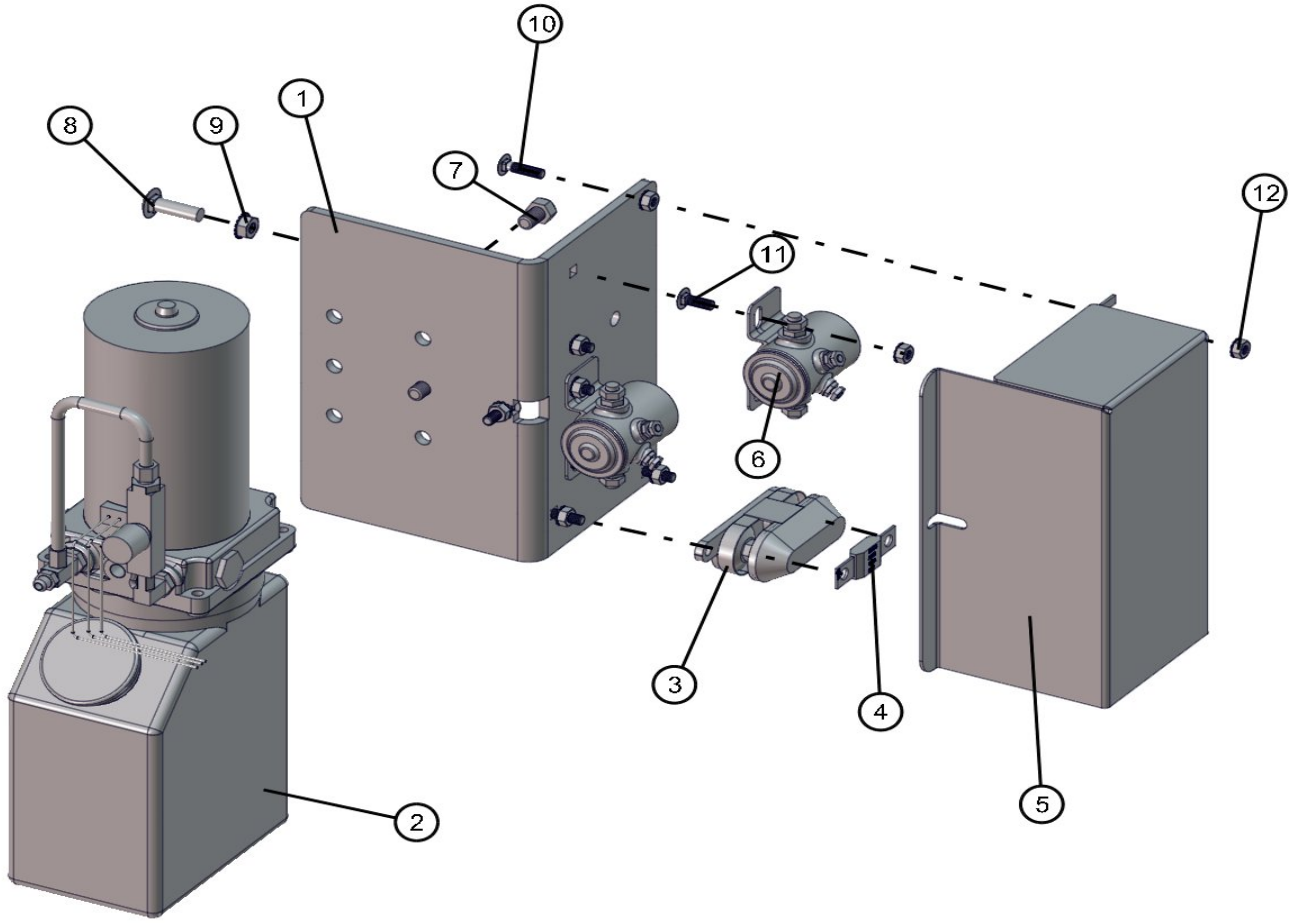


NO	Qty	PARTNO	DESCRIPTION
1	1	100245P	ML V HYDRAULIC CYLINDER COVER
2	2	046010	1/4-20 X 3/4 HEX HEAD CS GR5 SS
3	2	041070	1/4-20 x 3/4 SL-HEX WASHER HEAD MS TP F
4	1	SERIAL LABEL	SERIAL LABEL
5	1	101404	DO NOT STAND DECAL WARNING DECAL
6	1	103887	HANDLE THREE POINT
7	2	650260	SNUBBING WASHER
8	2	046050	5/16-18 X 3/4 HEX HEAD CS GR5 PL
9	2	044023	1/4-20 NYLOCK HEX NUT PL

103541—16/8 CORD (CORD REEL)

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

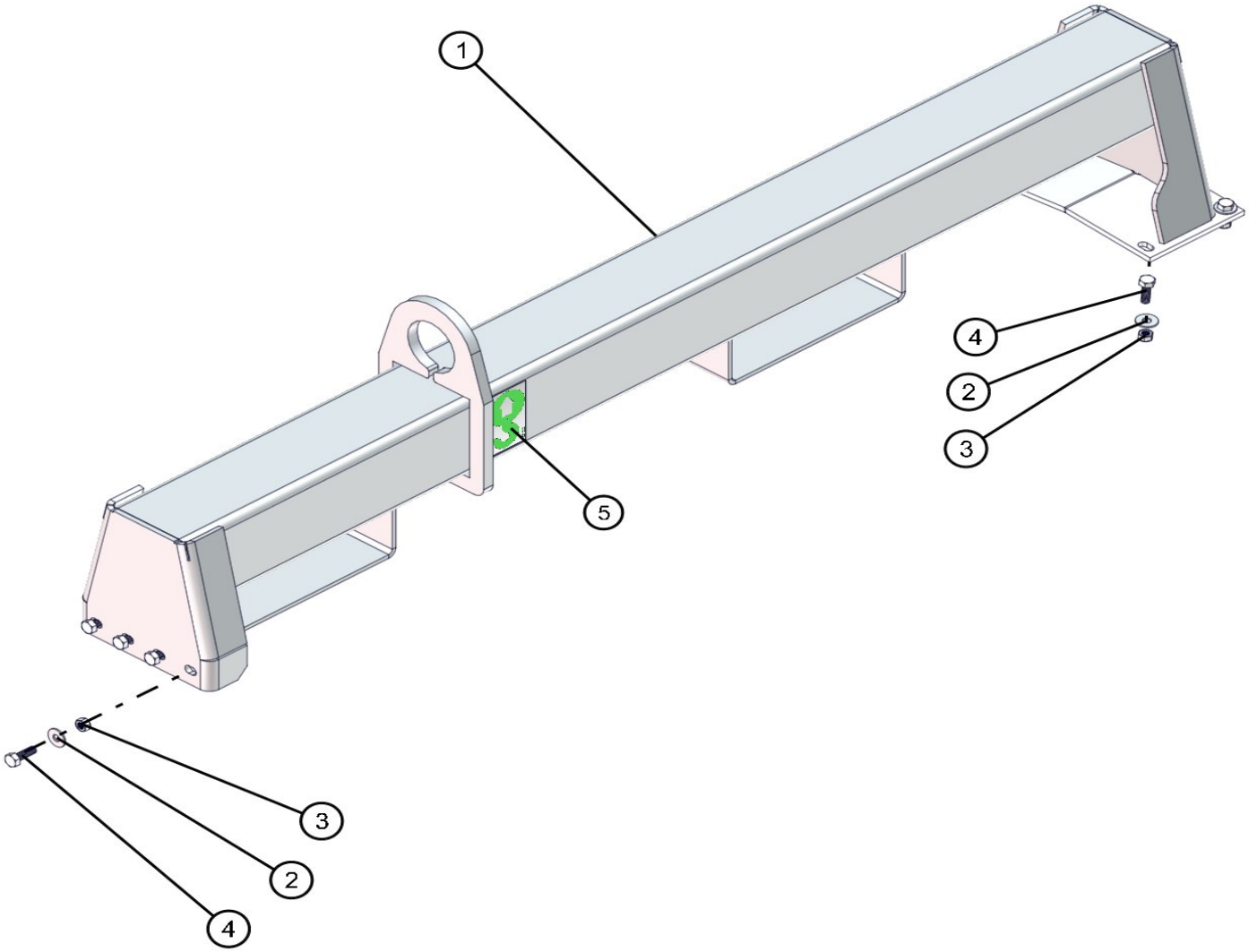
HYDRAULIC PUMP
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	101839P	BRACKET
2	1	101383	POWER UNIT
3	1	100235	FUSE HOLDER
4	1	100234	125A FUSE LINK
5	1	102191P	COVER
6	2	100236	12 VDC RELAY
7	2	101384	3/8-16 x 5/8 HEX HEAD CS GR5
8	2	100670	3/8-16 X 1 1/4 CARRIAGE BOLT
9	2	044036	3/8-16 KEPS HEX NUT PL
10	4	100342	1/4-20 X 1 CARRIAGE BOLT PL
11	4	053006	1/4-20 X 3/4 CARRIAGE BOLT
12	9	044021	1/4-20 KEPS HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

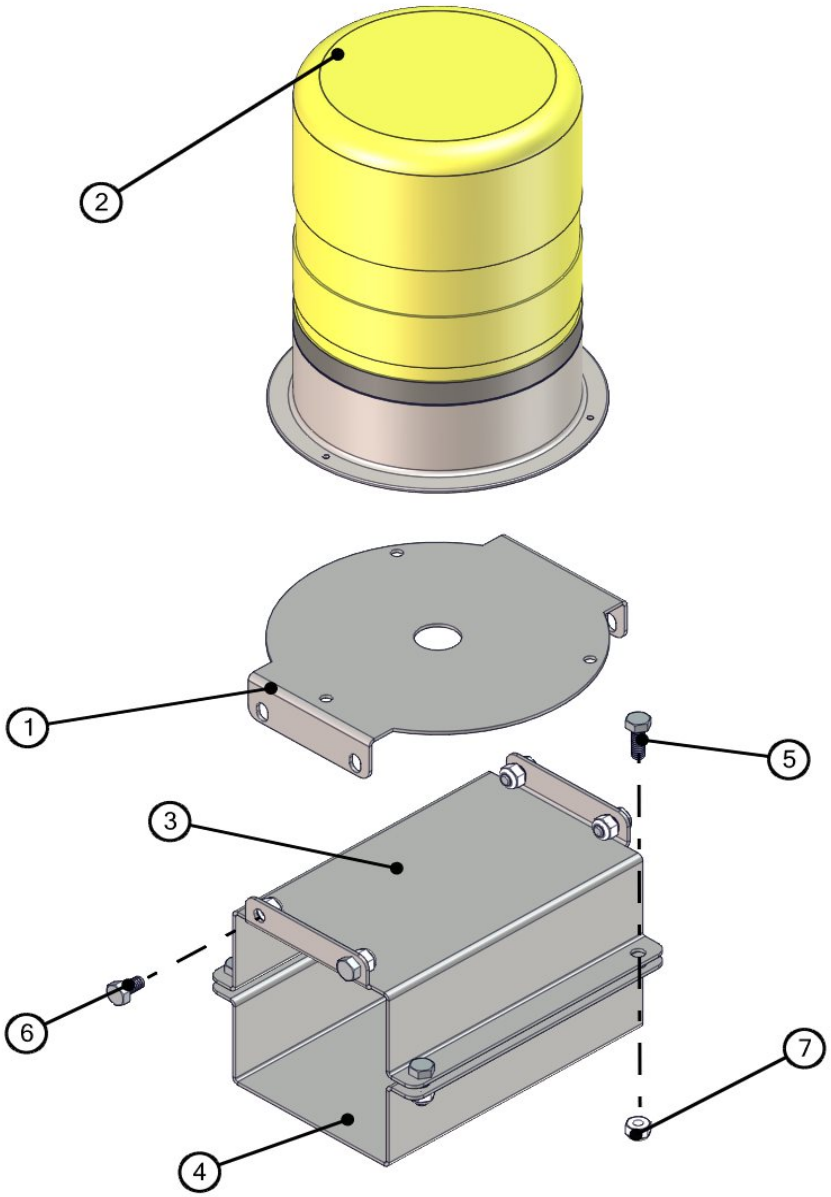
LIFT BAR
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	101917P	LIFT BAR
2	10	047010	5/16 FLAT WASHER
3	10	044030	5/16-18 HEX NUT
4	10	046050	BOLT CS 5/16-18 X 1 HEX GR5 PL
5	2	090136	LIFT POINT DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

LOW FUEL WARNING BEACON
ML FCS MINE SPEC II SERIES



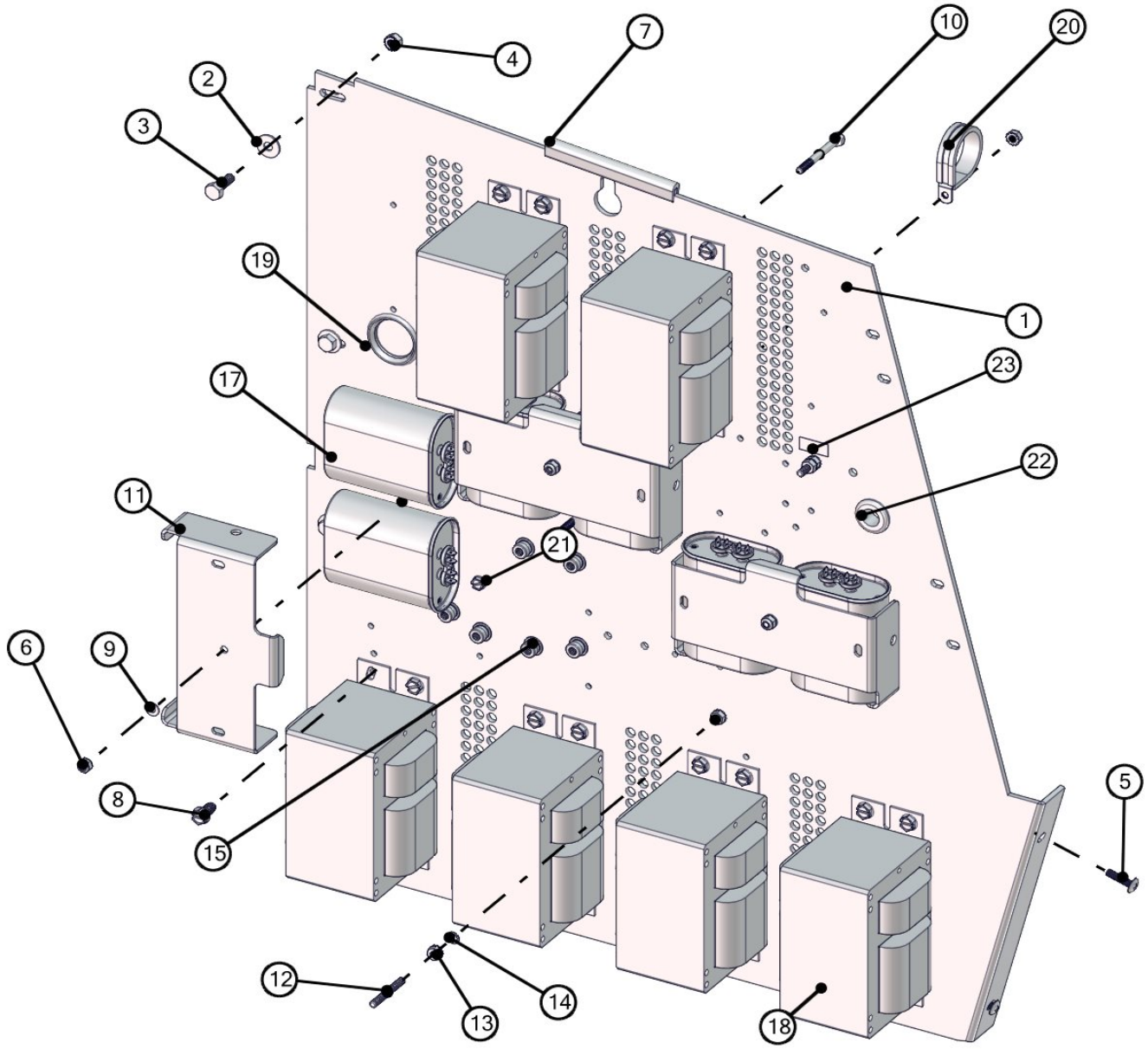
NO	Qty	PARTNO	DESCRIPTION
1	1	104012P	BRACKET
2	1	103980	STROBE / BEACON
3	1	104013P	SLEEVE (TOP)
4	1	104014P	SLEEVE (BOTTOM)

NO	Qty	PARTNO	DESCRIPTION
5	4	046010	1/4-20 X 3/4 HEX HEAD CS GR5 SS
6	4	046005	1/4-20 X 1/2 HEX HEAD CS GR5 PL
7	8	044023	1/4-20 NYLOCK HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

1250W 60Hz 6 LIGHT BALLAST PANEL
ML FCS MINE SPEC II SERIES

6/6/13

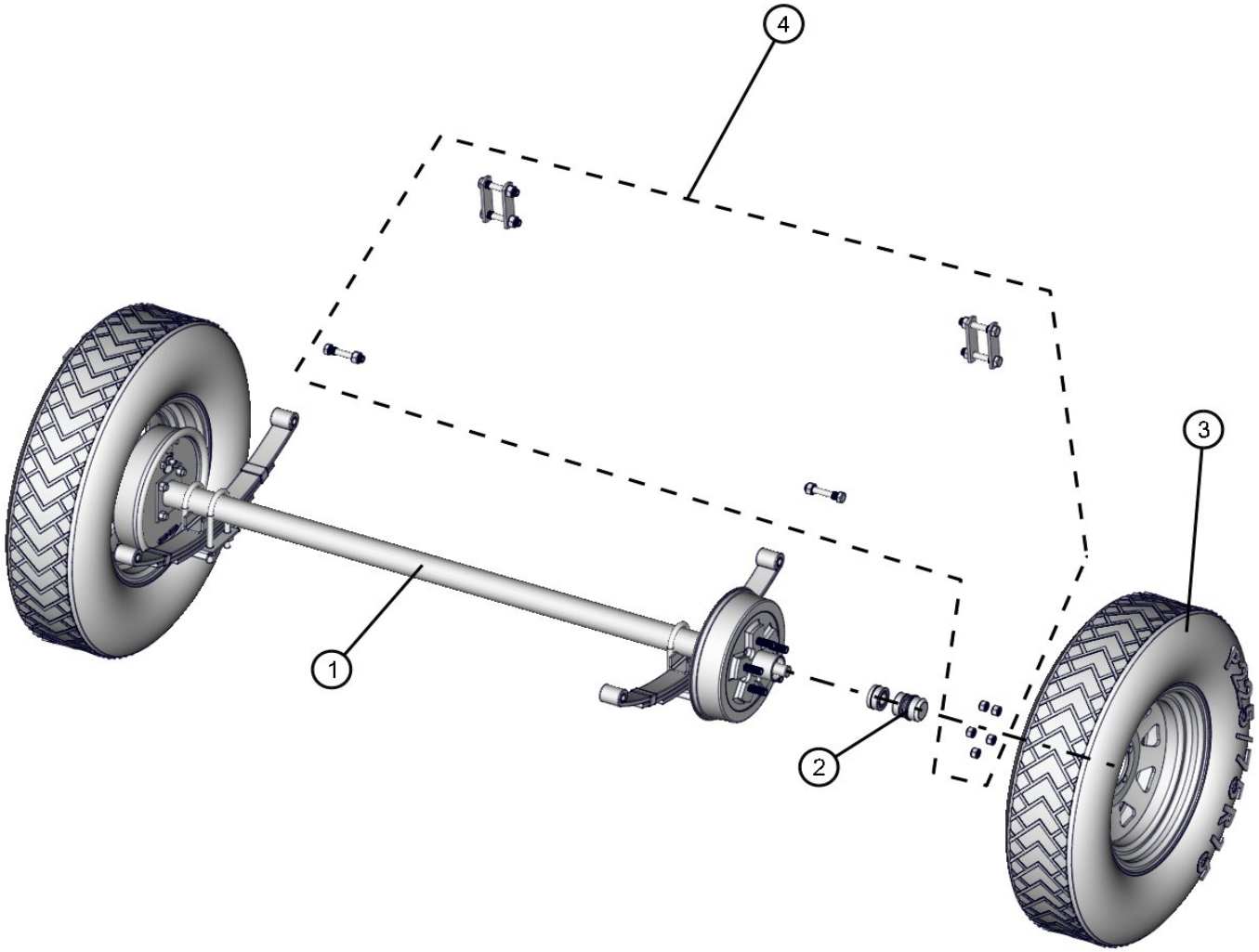


NO	Qty	PARTNO	DESCRIPTION
1	1	109663P	BALLAST PANEL
2	8	047010	5/16 FLAT WASHER PL
3	4	046050	5/16-18 X 1 HEX HEAD CS GR5 PL
4	7	044031	5/16 -18 KEPS HEX NUT PL
5	2	041080	1/4-20 X 1 PH-TRUSS HEAD MS SS
6	5	044023	1/4-20 NYLOCK HEX NUT PL
7	1	030057	TRIM LOCK 5"
8	24	041075	5/16-18 X 3/4 SL-HEX WASHER HEAD TP F
9	7	047009	1/4 FLAT WASHER SAE SS
10	3	046036	1/4-20 X 2 1/2 HEX HEAD CS GR5 PL
11	3	100392P	TABBED CAPACITOR CLAMP
12	2	045004	1/4-20 X 2 STUD PL

NO	Qty	PARTNO	DESCRIPTION
13	8	044021	1/4-20 KEPS HEX NUT PL
14	1	043050	1/4 INTL TOOTH LOCK WASHER
15	6	045131	3/8-16 RIVNUT
17	1	100329	CAPACITOR 28 uF (HD 1250W)
18	6	109606	1250W BALLAST WITH 28 uf CAPACITOR
19	1	100860	1.687 CAP PLUG
20	1	920365	#20 CUSHION CLAMP
21	1	041070	1/4-20 x 3/4 SL-HEX WASHER HEAD MS TP F
22	1	330463	11/16 RUBBER GROMMET
23	2	103543	MUTIPLE EARTH NEUTRAL DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

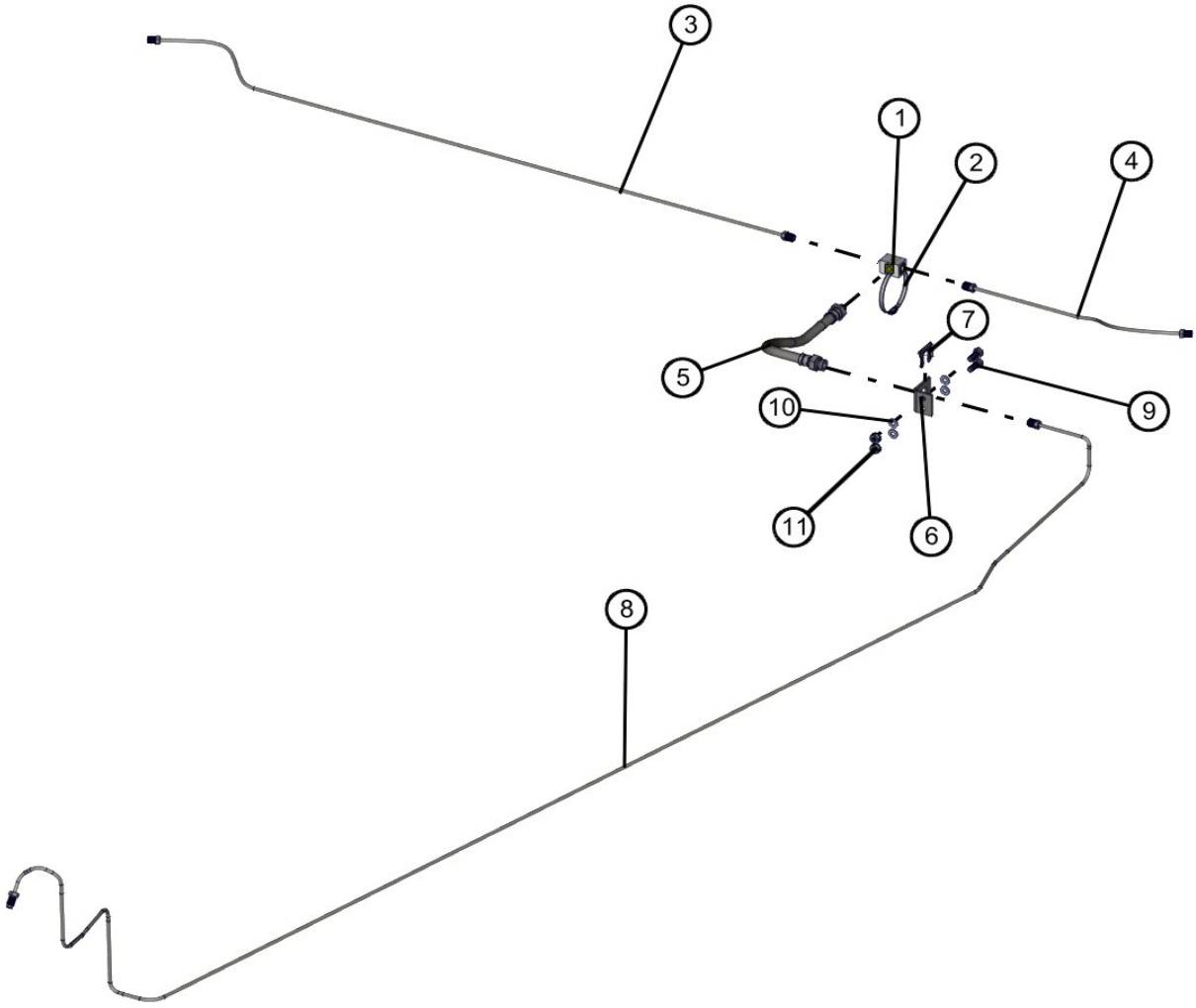
HYDRAULIC BRAKE AXLE
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	103156	AXLE WITH BREAK FREE BACKING
2	2	330005	BEARING SET
3	2	680124-13	WHEEL AND TIRE 15"
4	1	102106	AXLE HARDWARE KIT (LONG)

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

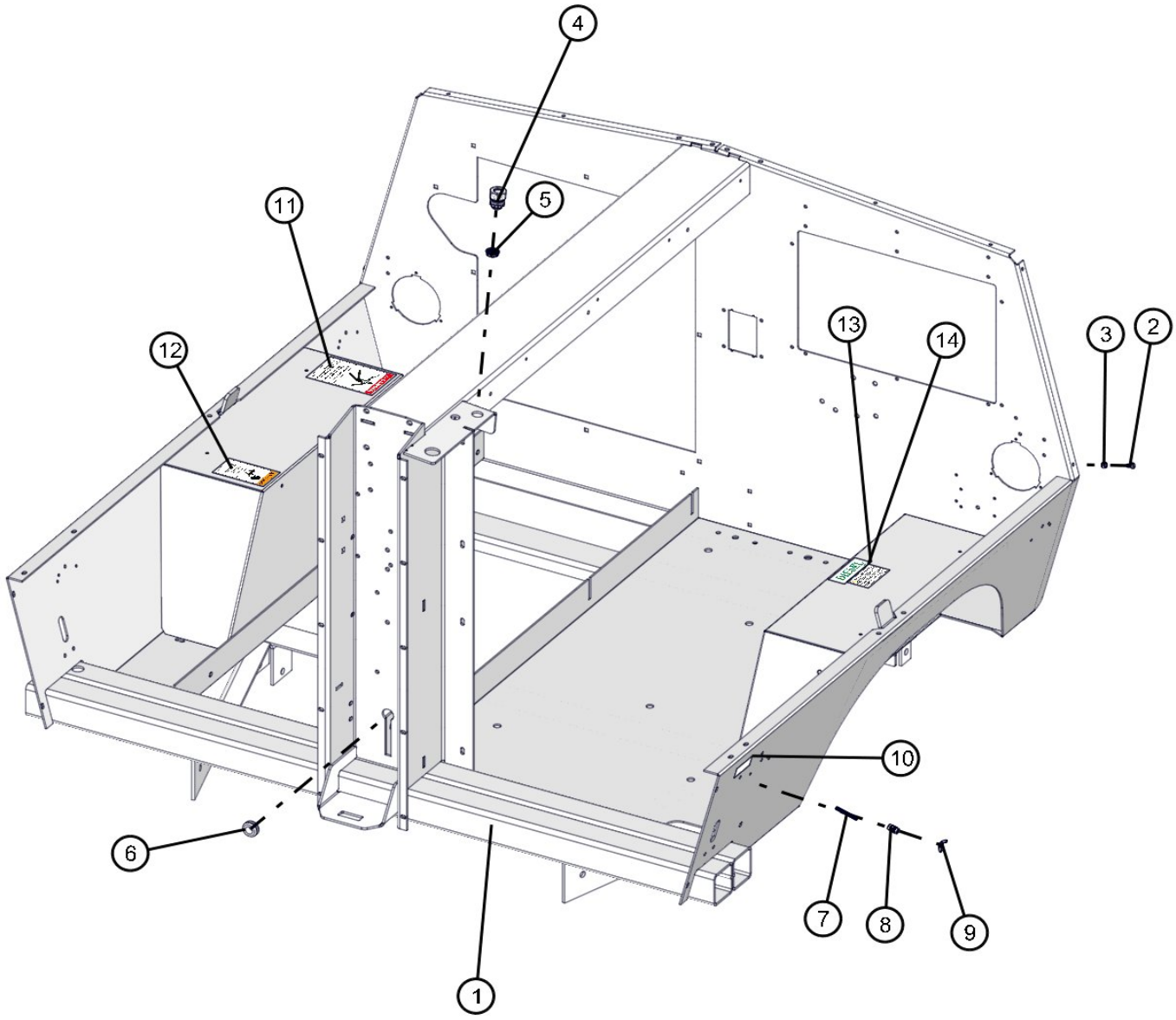
HYDRAULIC BRAKE LINE
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	103157	3/16 IF UNION TEE
2	1	103433	14" SS TIE
3	1	103157	3/16 X 34 1/2 BRAKE LINE
4	1	103157	3/16 X 17 1/2 BRAKE LINE
5	1	103157	18" BRAKE LINE HOSE
6	1	103157	FRAME/ HOSE BRACKET
7	1	103157	HOSE CLIP
8	1	103157	3/16 X 92" BRAKE LINE
9	2	046010	1/4-20 X 3/4 HEX HEAD CS GR5 SS
10	4	047009	1/4 FLAT WASHER SAE SS
11	2	044021	1/4-20 KEPS HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

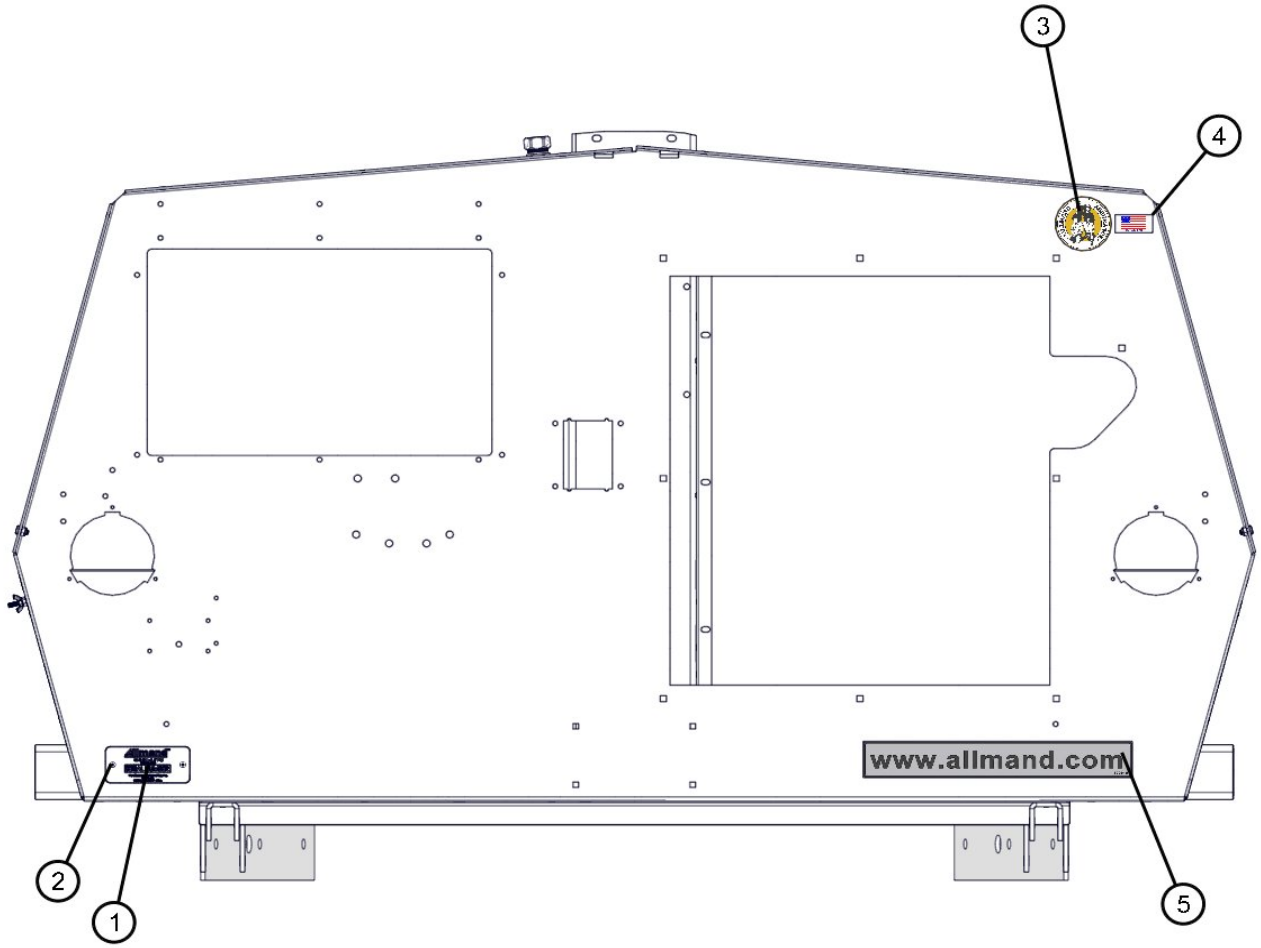
FRAME
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	102984P	FRAME
2	2	041250	1/4-20 X 1/2 SL-BINDER HEAD MS NYLON
3	2	044023	1/4-20 NYLOCK HEX NUT PL
4	1	310033	1/2 CORD GRIP
5	1	022415	1/2 INSULATING BUSHING
6	1	330463	11/16 RUBBER GROMMET
7	1	045004	1/4-20 X 2 STUD PL
8	3	044021	1/4-20 KEPS HEX NUT PL
9	1	330494	1/4-20 WING NUT
10	1	090133	GROUNDING LUG DECAL
11	1	090163	ELECTRICAL SHOCK DECAL
12	1	090159	COMBUSTIBLE GAS DECAL
13	1	090034	DIESEL DECAL
14	1	101057	EPA REGULATION DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

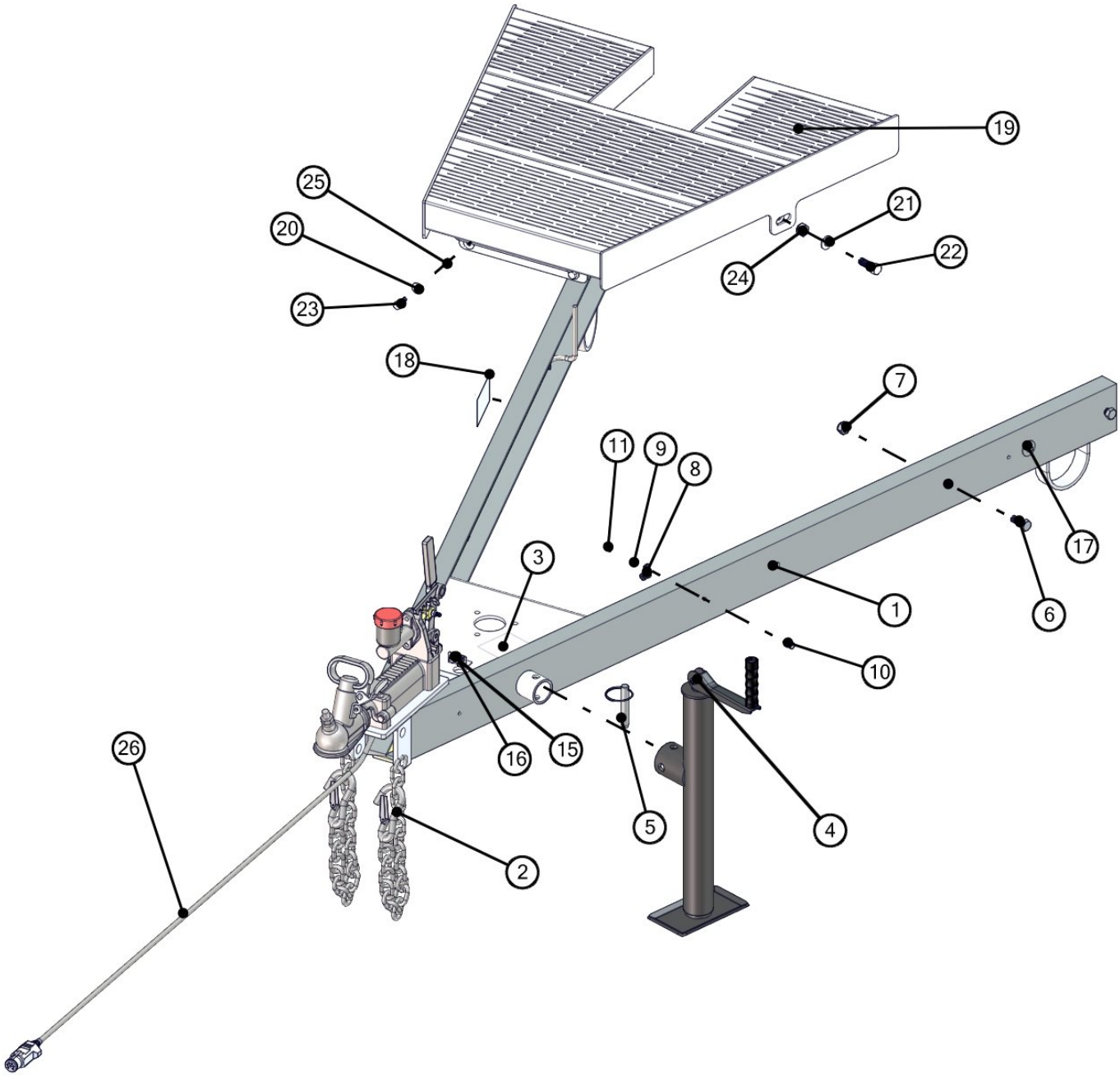
FRAME REAR
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	352395	SERIAL PLATE
2	2	045110	3/16 X 1/4 ALUM BLIND RIVET
3	1	102088	3 GENERATIONS DECAL
4	1	090385	MADE IN USA DECAL
5	1	100919	WWW.ALMAND.COM DECAL

REMOVABLE TONGUE
ML FCS MINE SPEC II SERIES

6/6/13



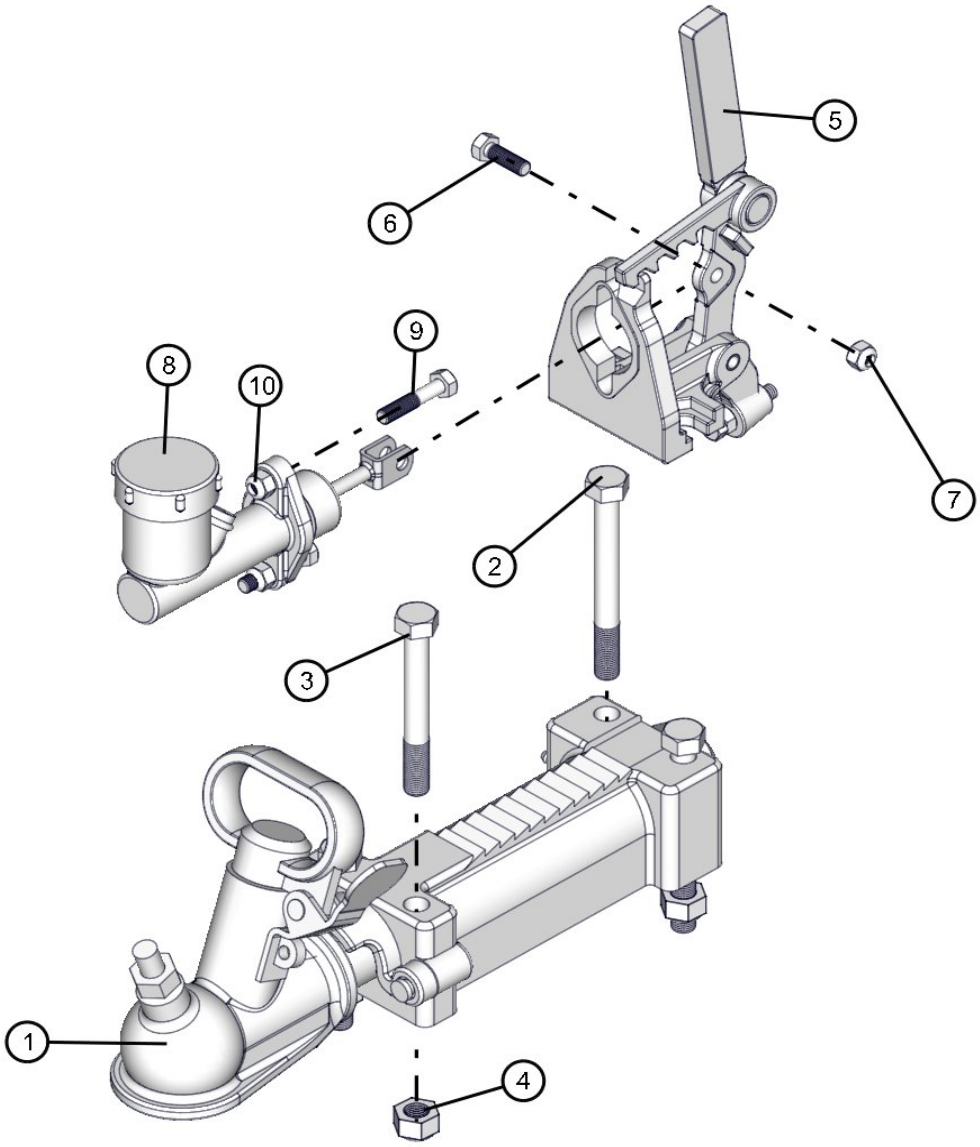
NO	Qty	PARTNO	DESCRIPTION
1	1	103368P	TONGUE REM.
2	2	049040	SAFETY CHAIN
3	1	090160	EXCESS TOWING WARNING DECAL
4	1	680879	TOP CRANK JACK - TUBE MOUNT TOP CRANK
5	1	330013	LOCK PIN JACK
6	4	046180	1/2-13 X 1 1/4 HEX HEAD CS GR5 PL
7	4	044049	1/2-13 NYLOCK HEX NUT PL
8	5	022015	# 4 CUSHION CLAMP
9	5	047009	1/4 FLAT WASHER SAE SS
10	4	046010	1/4-20 X 3/4 HEX HEAD CS GR5 SS
11	4	044023	1/4-20 NYLOCK HEX NUT PL
15	1	046006	1/4-20 X 5/8 HEX HEAD CS GR5 PL

NO	Qty	PARTNO	DESCRIPTION
16	1	044021	1/4-20 KEPS HEX NUT PL
17	2	047007	1/4 X 1 1/4 X .056 FENDER WASHER
18	1	C103492	VIN PLATE
19	1	103927P	PLATFORM
20	4	047012	5/16 FLAT WASHER
21	4	047025	1/2 FLAT WASHER PL
22	2	046185	1/2-13 X 1 1/2 HEX HEAD CS GR5 PL
23	2	046050	5/16-18 X 1 HEX HEAD CS GR5 PL
24	2	044049	1/2-13 NYLOCK HEX NUT PL
25	2	044033	5/16-18 NYLOCK HEX NUT PL
26	1	103503	TAIL LIGHT HARNESS

Part number that begin with “C” are supplied by CAPS

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

COUPLING
ML FCS MINE SPEC II SERIES

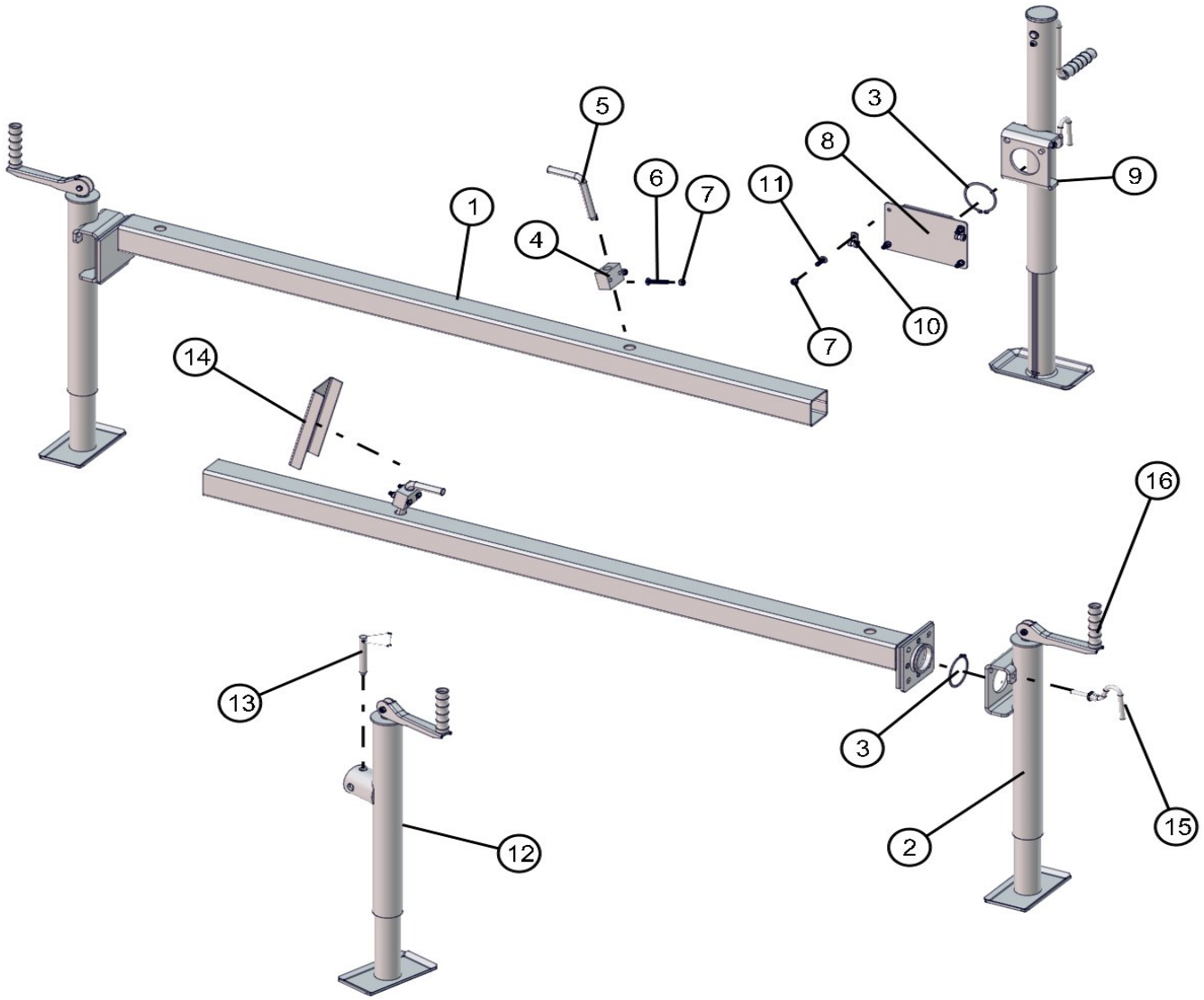


NO	QTY	PARTNO	DESCRIPTION
1	1	C103486	COUPLING
2	2	C103494	1/2-20 X 4 1/2 HEX HEAD CS GR8 PL
3	2	C103493	1/2-20 X 4 HEX HEAD CS GR8 PL
4	4	C103495	1/2-20 NYLOCK HEX NUT
5	1	C103488	PARK BRAKE LEVER
6	1	C103520	M8 X 25mm X 1.25mm HEX HEAD CS PL
7	1	C103497	M8 X 1.25mm HEX NUT
8	1	C103487	MASTER CYLINDER
9	2	C103496	M8 X 40mm X 1.25mm HEX HEAD CS PL
10	2	C103497	M8 X 1.25mm HEX NUT

Part number that begin with “C” are supplied by CAPS

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

OUTRIGGERS & JACKS
ML FCS MINE SPEC II SERIES



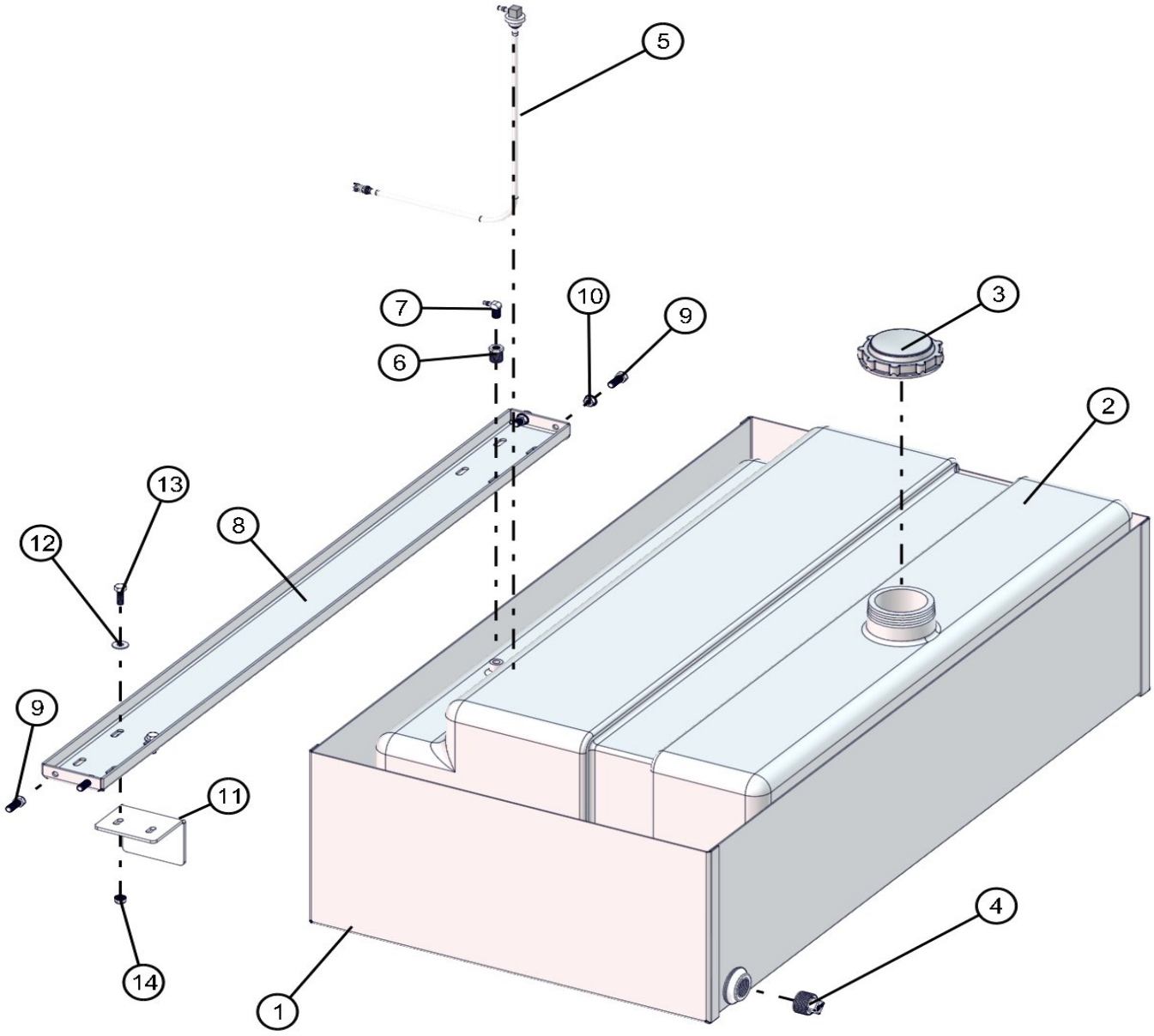
NO	QTY	PARTNO	DESCRIPTION
1	2	680113-15	OUTRIGGER
2	2	330010	LONG JACK
3	3	330014	2 5/6 XT JACK SNAP RING
4	2	330430	GUIDE BLOCK
5	2	330455	OUTRIGGER PIN
6	4	041053	1/4-20 x 1 3/4 PH TRUSS SCREW
7	8	044023	1/4-20 NYLOCK NUT
8	1	680112P	JACK MOUNT
9	1	352072	JACK SIDE CRANK SNAP RING

NO	QTY	PARTNO	DESCRIPTION
10	2	022015	#4 CUSHION CLAMP
11	4	041080	1/4 - 20 X 1 THCS
12	1	680879	TOP CRANK JACK, TUBE MOUNT
13	1	330013	LOCK PIN, TUBE MOUNT
14	1	109666P	SHIELD, SPLASH
15	1	330012A	LOCK HANDLE REPLACEMENT KIT
16	1	330012	REPLACEMENT JACK HANDLE KIT

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

50 GALLON FUEL TANK W/ CONTIANMENT TRAY
ML FCS MINE SPEC II SERIES

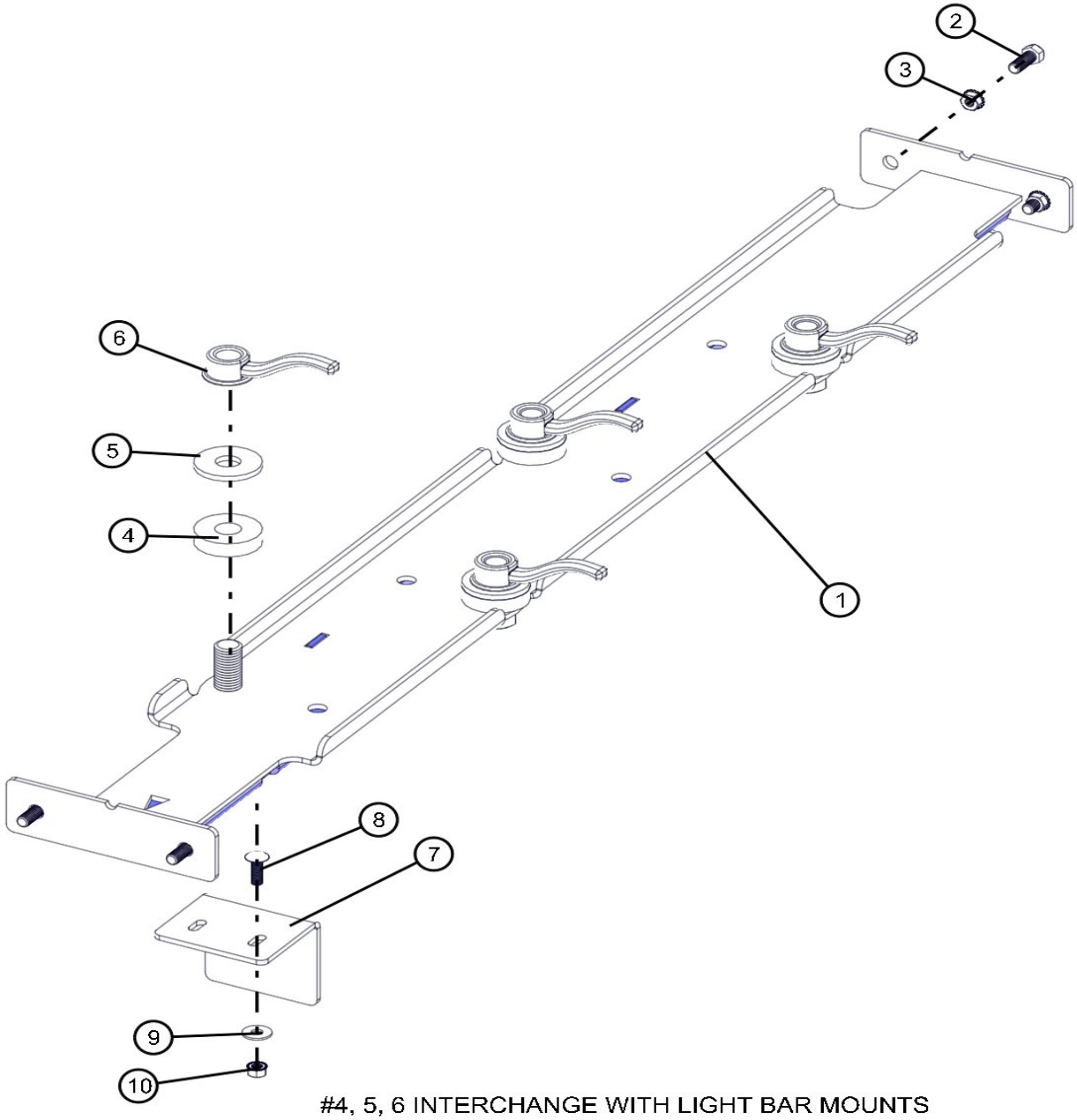
6/6/13



NO	QTY	PARTNO	DESCRIPTION
1	1	109739P	WLDMNT 50-GAL FUEL
2	1	340440	50 GAL FUEL TANK
3	1	340441	FUEL CAP
4	1	026108	1" NPT SQ HD PLUG
5	1	340025	FUEL SUCTION TUBE ASSEMBLY
6	1	100358	REDUCER 3/8 NPT X 1/8 NPT
7	1	930151	90 DEG HOSE BARB
8	1	109722P	HOLD DOWN
9	4	046110	3/8-16 X 1 HHCS GR5 PL
10	2	044036	3/8-16 KEPS HEX NUT
11	1	109748P	STOP, MOVEABLE
12	4	047010	5/16 FLAT WASHER
13	2	046050	BOLT CS 5/16-18 X 1 HEX GR5 PL
14	2	044031	5/16 -18 KEPS NUT

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

INSIDE LIGHT STORAGE
ML FCS MINE SPEC II SERIES

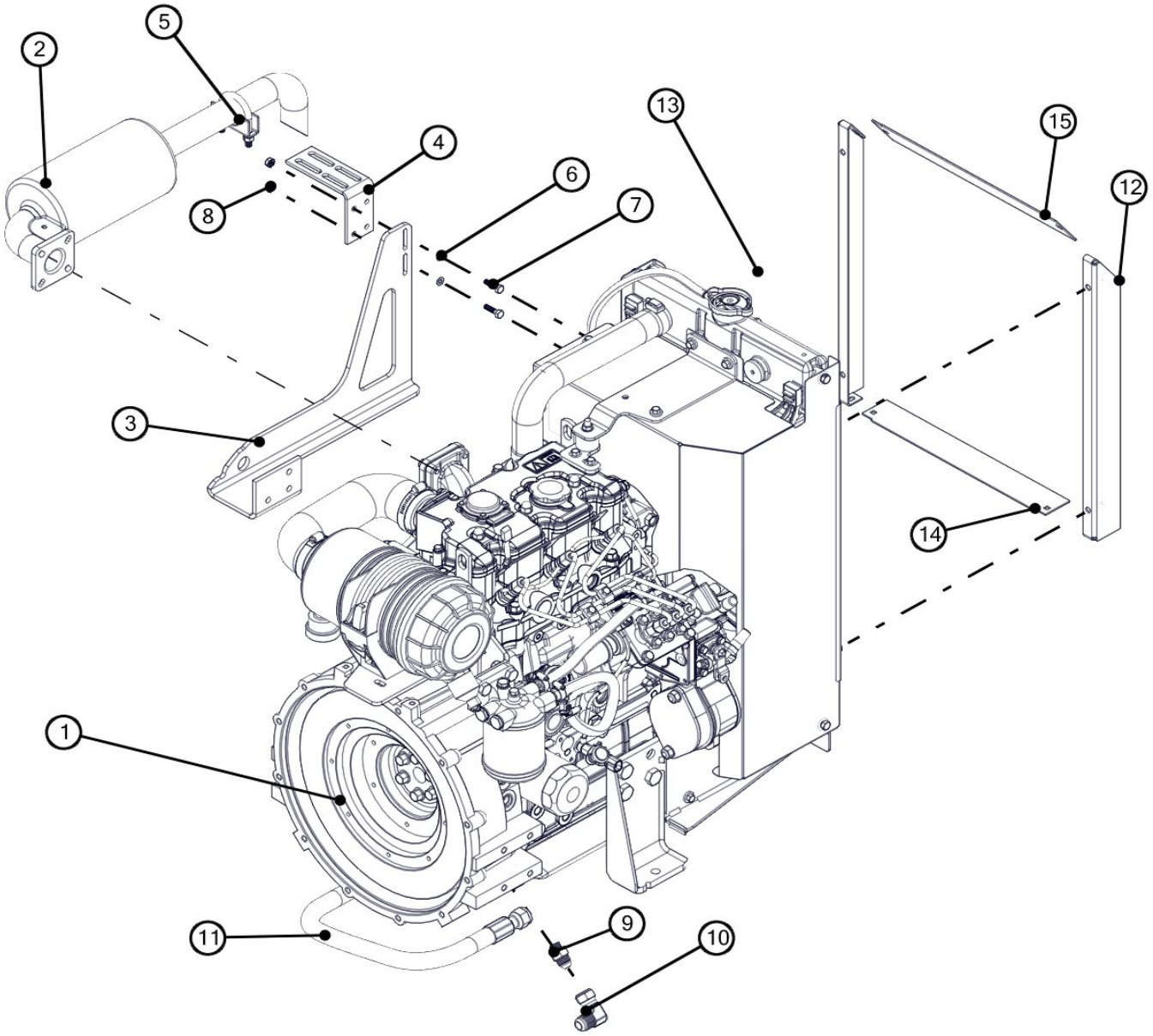


#4, 5, 6 INTERCHANGE WITH LIGHT BAR MOUNTS

NO	QTY	PARTNO	DESCRIPTION
1	1	109751P	INSIDE LIGHT STORAGE BAR
2	4	046110	3/8-16 X 1 HEX HEAD CS GR5 PL
3	2	044036	3/8-16 KEPS HEX NUT PL
4	4	101813	.781 ID x 2 OD x 1/2 HDPE WASHER
5	4	047035	3/4 FLAT WASHER PL
6	4	630728	SHO HANDLE NUT
7	1	109748P	MOVEABLE STOP
8	2	053020	5/16-18 X 1 CARRIAGE BOLT PL
9	2	047010	5/16 FLAT WASHER PL
10	2	044031	5/16 -18 KEPS HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

CAT C1.5 ENGINE
ML FCS MINE SPEC II SERIES

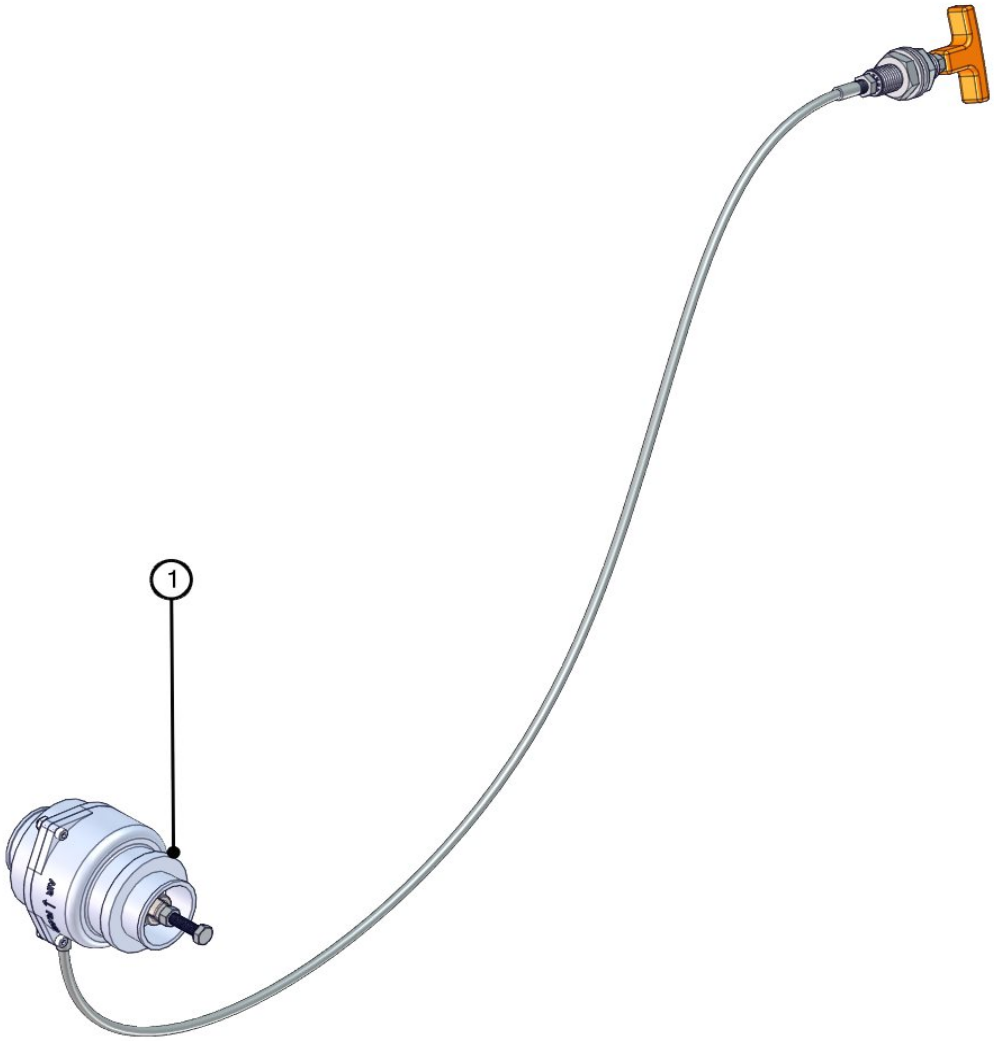


NO	Qty	PARTNO	DESCRIPTION
1	1	101182	CAT ENGINE C1.5 60 HZ PULL FAN EPA TIER 4 INTERIM
2	1	101333	MUFFLER CAT C1.5L
3	1	103820P	BRKT MUFFLER
4	1	100706P	MUFFLER BRACKET ADJUSTABLE CAT
5	1	340111	1-1/2 MUFFLER CLAMP
6	2	047009	1/4 FLAT WASHER SAE SS
7	2	046015	1/4-20 X 1 HEX HEAD CS GR5 PL
8	2	044021	1/4-20 KEPS HEX NUT PL
9	1	680875	HYDRAULIC FITTING #8 JIC - M16 X 1.5
10	1	680874	HYDRAULIC FITTING 90° ELBOW #10 JIC - #8 JIC
11	1	103429	OIL DRAIN REMOTE
12	1	104025P	SHROUD RIGHT SIDE
13	1	104026P	SHROUD LEFT SIDE
14	1	104024P	CAT 1.5 RAD SHROUD
15	1	104027P	SHROUD TOP

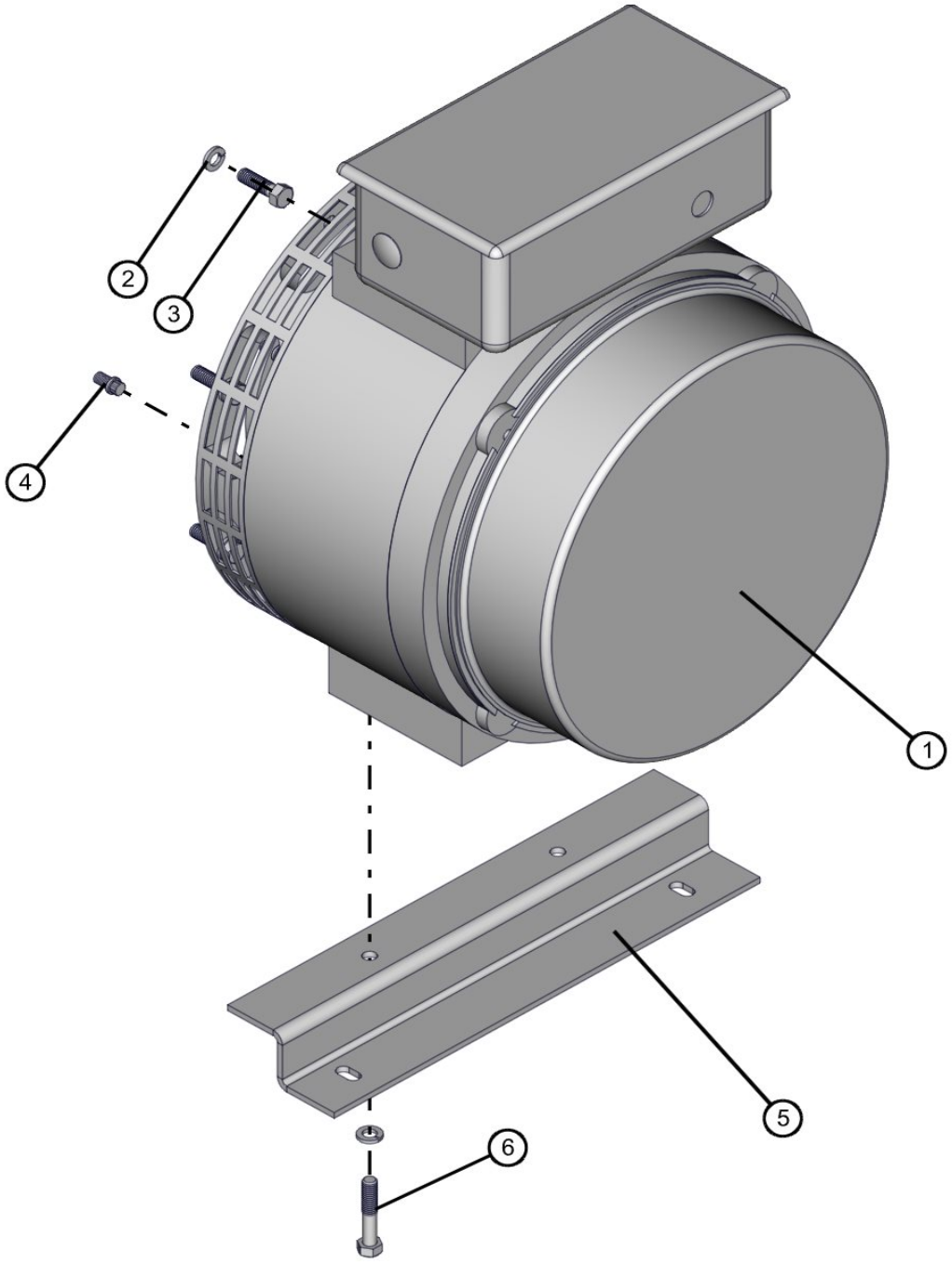
NOTE: OIL, AIR AND FUEL FILTERS ARE PURCHASED THROUGH YOUR LOCAL CAT DEALER.

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

ML FCS MINE SPEC II SERIES

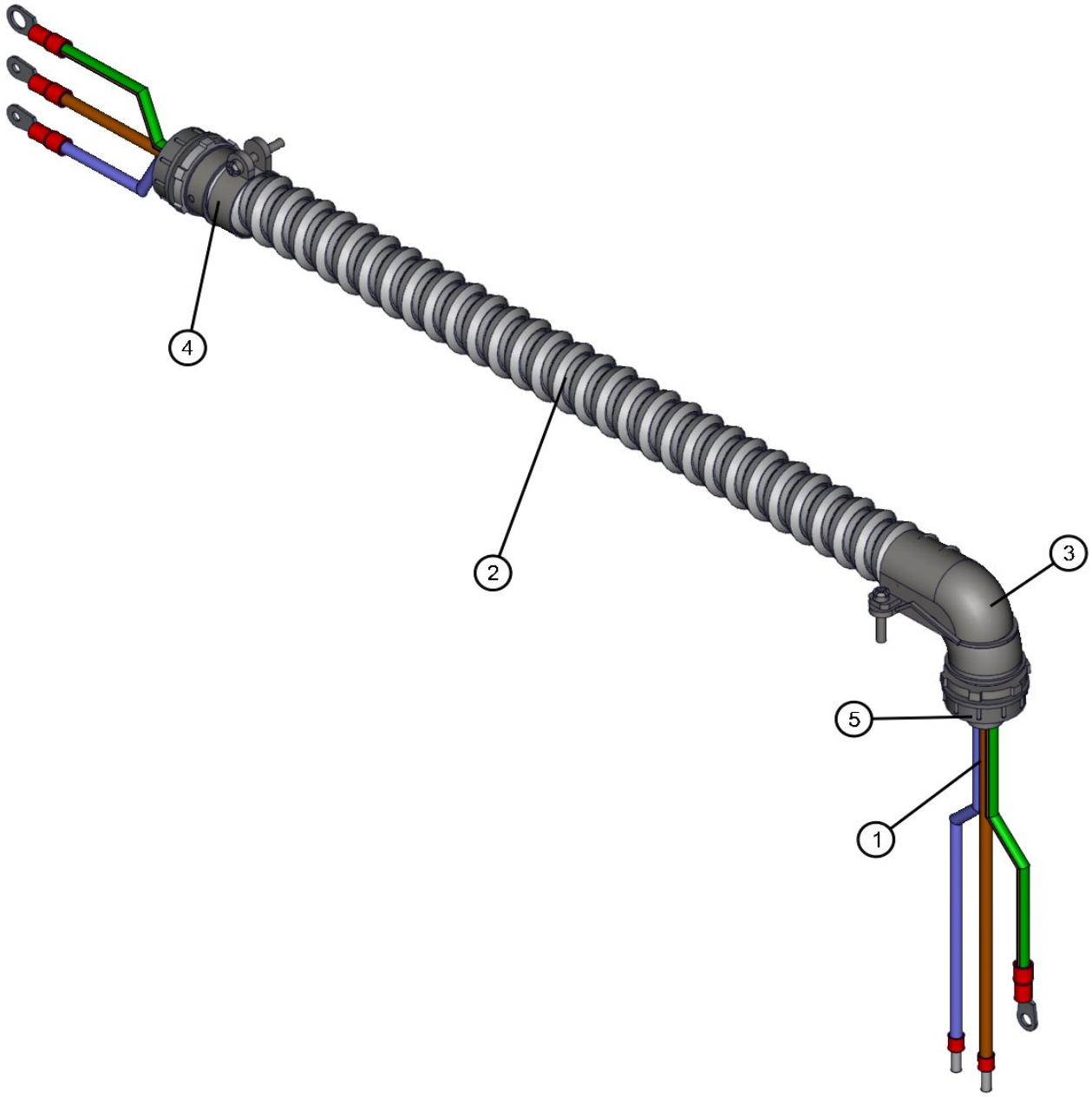


NO	Qty	PARTNO	DESCRIPTION
1	1	103904	SHUTOFF VALVE CAT C1.5



NO	QTY	PARTNO	DESCRIPTION
1	1	109670	13kW MARATHON GENERATOR
2	10	043065	3/8 SPLITLOCK WASHER PL
3	8	046115	3/8-16 X 1 1/4 HEX HEAD CS GR5 PL
4	6	046041	5/16-18x1/2" 12 PT FLANGE HEAD BOLT
5	1	651012P	MOUNT, GENERATOR, CAT 3011 BALDOR, MARA 6&8 KW
6	2	046130	3/8-16 X 2 HEX HEAD CS GR5 PL

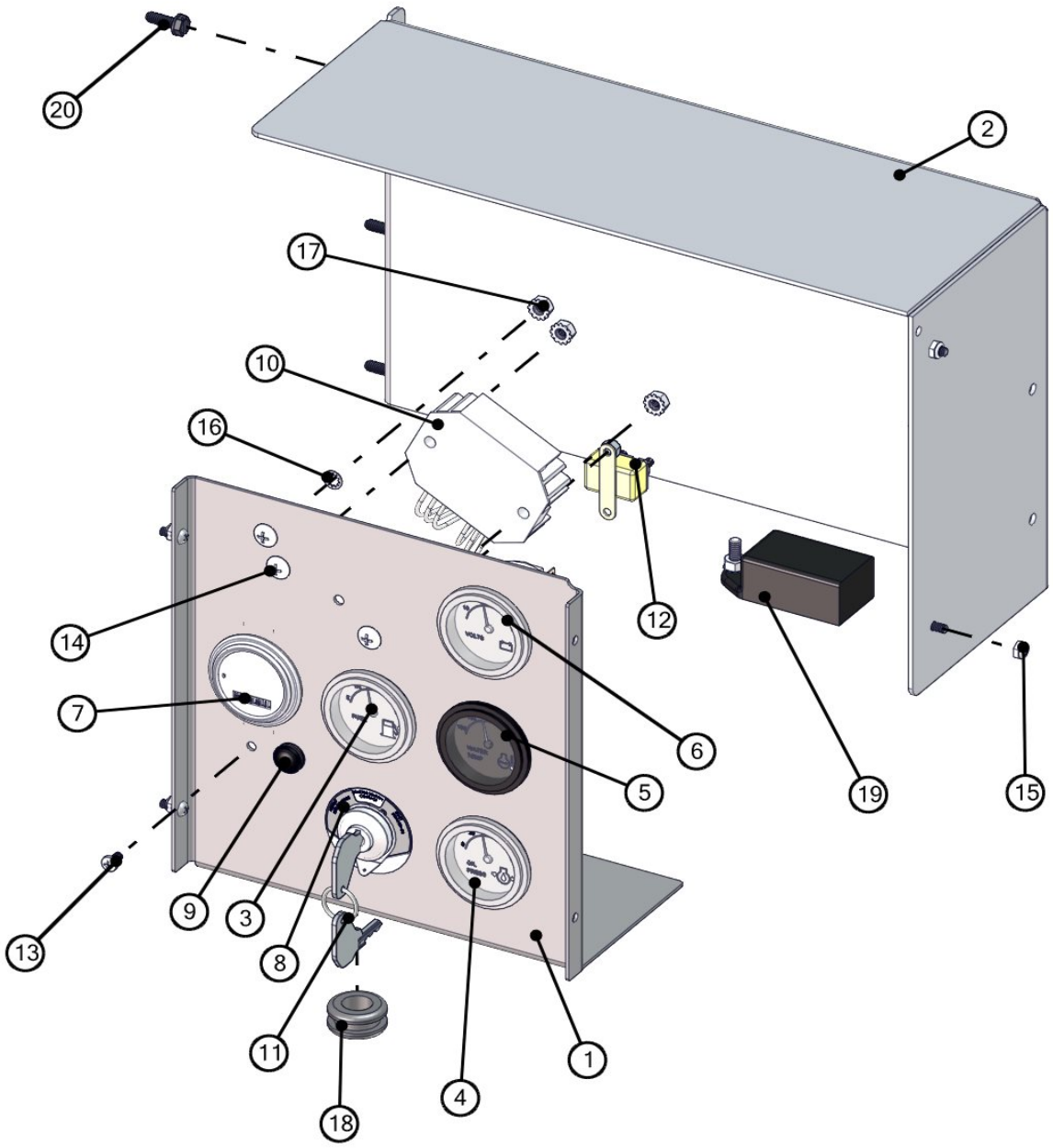
GENERATOR CORD
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	103431	GENERATOR CORD
2	1	023014	1" FLEX CONDUIT CED FLEX RWS1
3	1	023015	1" FLEX CONDUIT 90° FITTING CED MAD L1103
4	1	023016	1" FLEX CONDUIT STR FITTING CED MAD L423
5	2	101672	1" INSULATING BUSHING

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

CAT C1.5 CONTROL PANEL
ML FCS MINE SPEC II SERIES

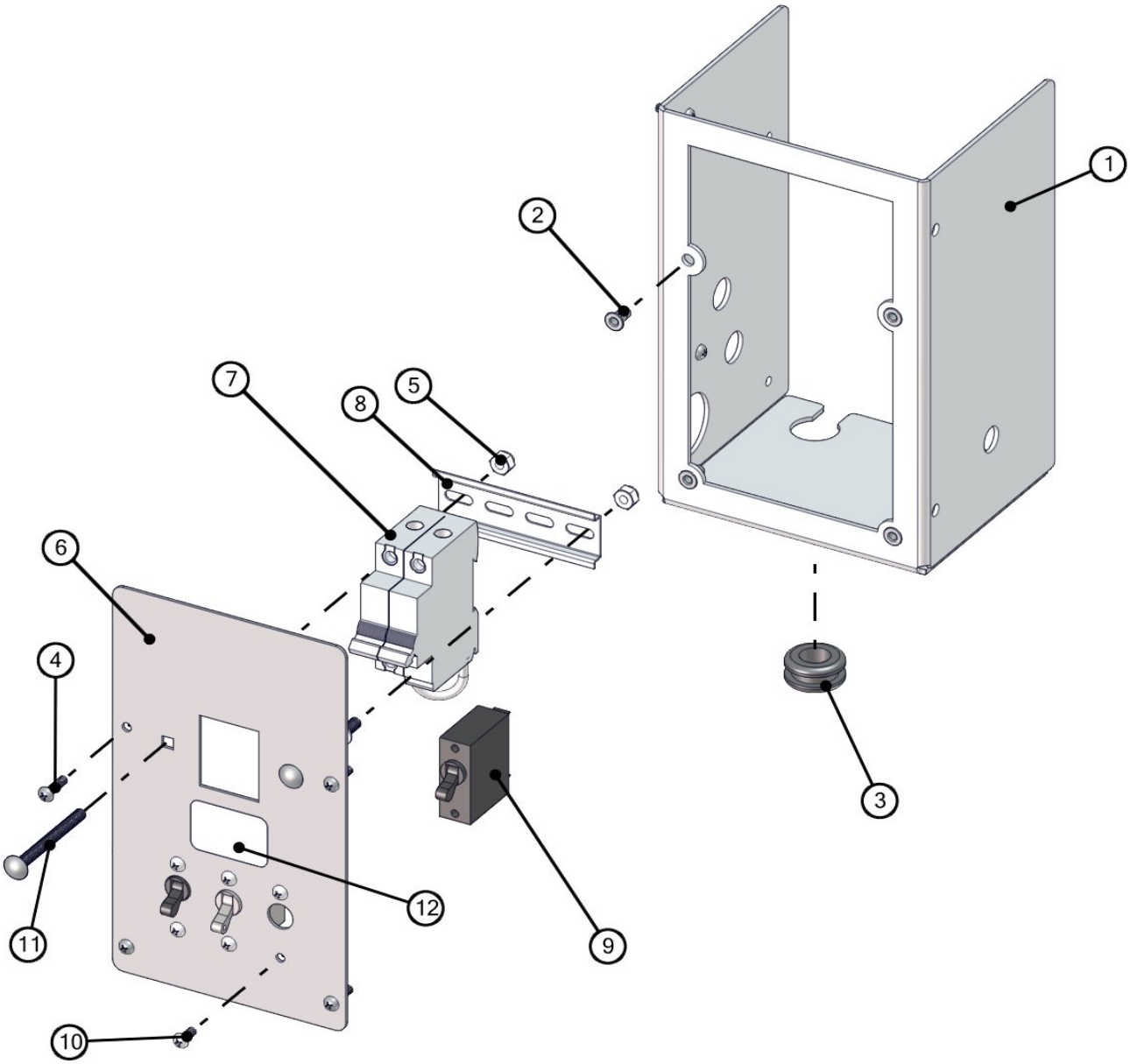


NO	Qty	PARTNO	DESCRIPTION
1	1	104009P	GAUGE PANEL
2	1	104010P	COVER
3	1	104015	FUEL GUAGE
4	1	104016	OIL PRESSURE GUAGE
5	1	104017	WATER TEMP. GUAGE
6	1	104018	VOLT METER GUAGE
7	1	340014	HOUR METER
8	1	650306	CAT IGNITION SWITCH W/ 2 KEYS
9	1	433328	1/2 PLASTIC PLUG
10	1	650446	VOLTAGE REGULATOR
11	1	650307	CAT SINGLE KEY

NO	Qty	PARTNO	DESCRIPTION
12	1	650139	30A BREAKER
13	5	041021	#10-24 X 1/2 PH-ROUND HEAD MS PL
14	4	041080	1/4-20 X 1 PH-TRUSS HEAD MS SS
15	5	044018	#10-24 NYLOCK HEX NUT PL
16	1	043051	1/4 INTL TOOTH LOCK WASHER SS
17	4	044021	1/4-20 KEPS HEX NUT PL
18	1	330463	11/16 RUBBER GROMMET
19	1	650302	TIMER
20	3	041070	1/4-20 x 3/4 SL-HEX WASHER HEAD MS TP F

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

LIGHT CONTROL PANEL
ML FCS MINE SPEC II SERIES



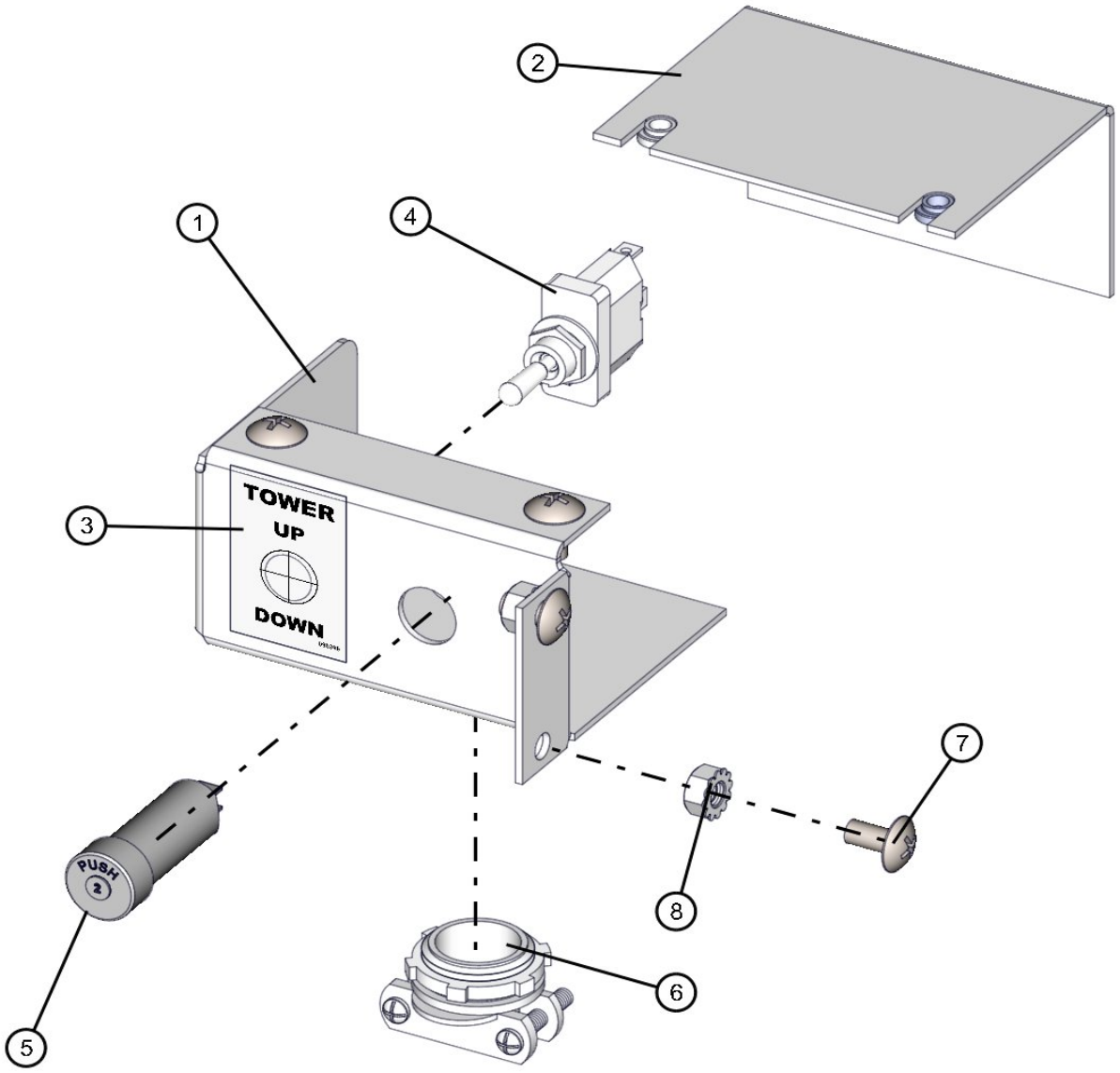
NO	Qty	PARTNO	DESCRIPTION
1	1	100797P	LIGHT SWITCH ENCLOSURE
2	4	045135	#10-24 UNC RIVNUT
3	1	330463	11/16 RUBBER GROMMET
4	6	041027	#10-24 X 3/4 PH-ROUND HEAD MS
5	4	044018	#10-24 NYLOCK HEX NUT PL
6	1	104059P	ML FCS AS3000 60 HZ 6 LITE FACE PLATE
7	1	C103485	63A DP CIRCUIT BREAKER

NO	Qty	PARTNO	DESCRIPTION
8	1	103189	4" DIN RAIL
9	3	330458	15A SPST BREAKER SWITCH
10	6	041013	#8-32 X 1/2 PH-ROUND HEAD MS PL
11	2	100718	1/4-20 x 2 1/4 CARRIAGE BOLT
12	1	103522	60Hz ELEC. SYSTEM

Part number that begin with “C” are supplied by CAPS

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

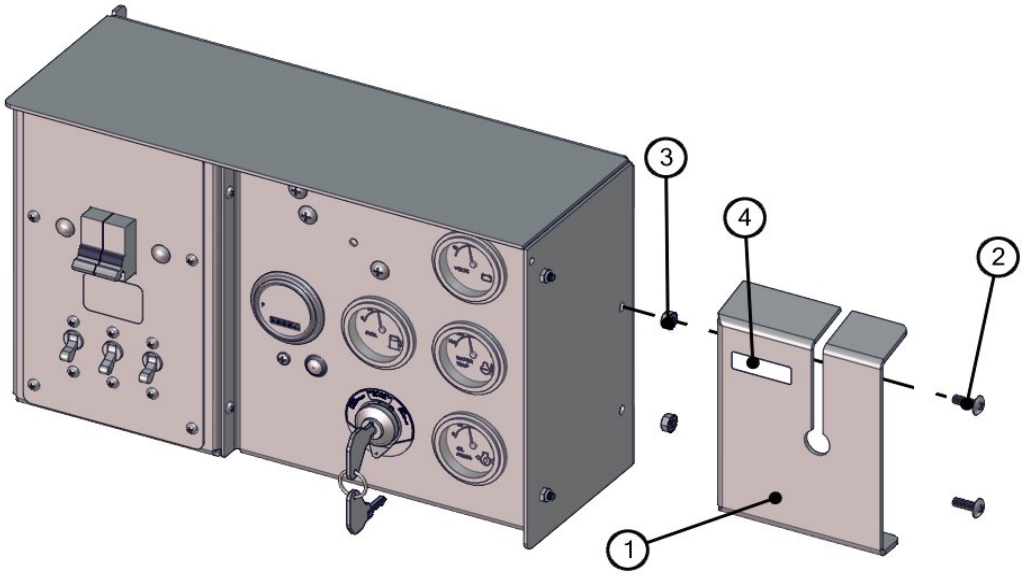
TOWER CONTROL PANEL
ML FCS MINE SPEC II SERIES



NO	QTY	DESCRIPTION	PARTNO
1	1	SWITCH BRACKET	102671P
2	1	SWTICH COVER	102673P
3	1	UP & DOWN DECAL	090399
4	1	TOGGLE SWITCH	102453
5	1	CIRCUIT BREAKER 2 AMP	352466
6	1	3/4 2-SCREW ROMEX CLAMP	022025
7	4	1/4-20 X 1/2 PH-TRUSS HEAD MS SS	041078
8	2	1/4-20 KEPS HEX NUT PL	044021

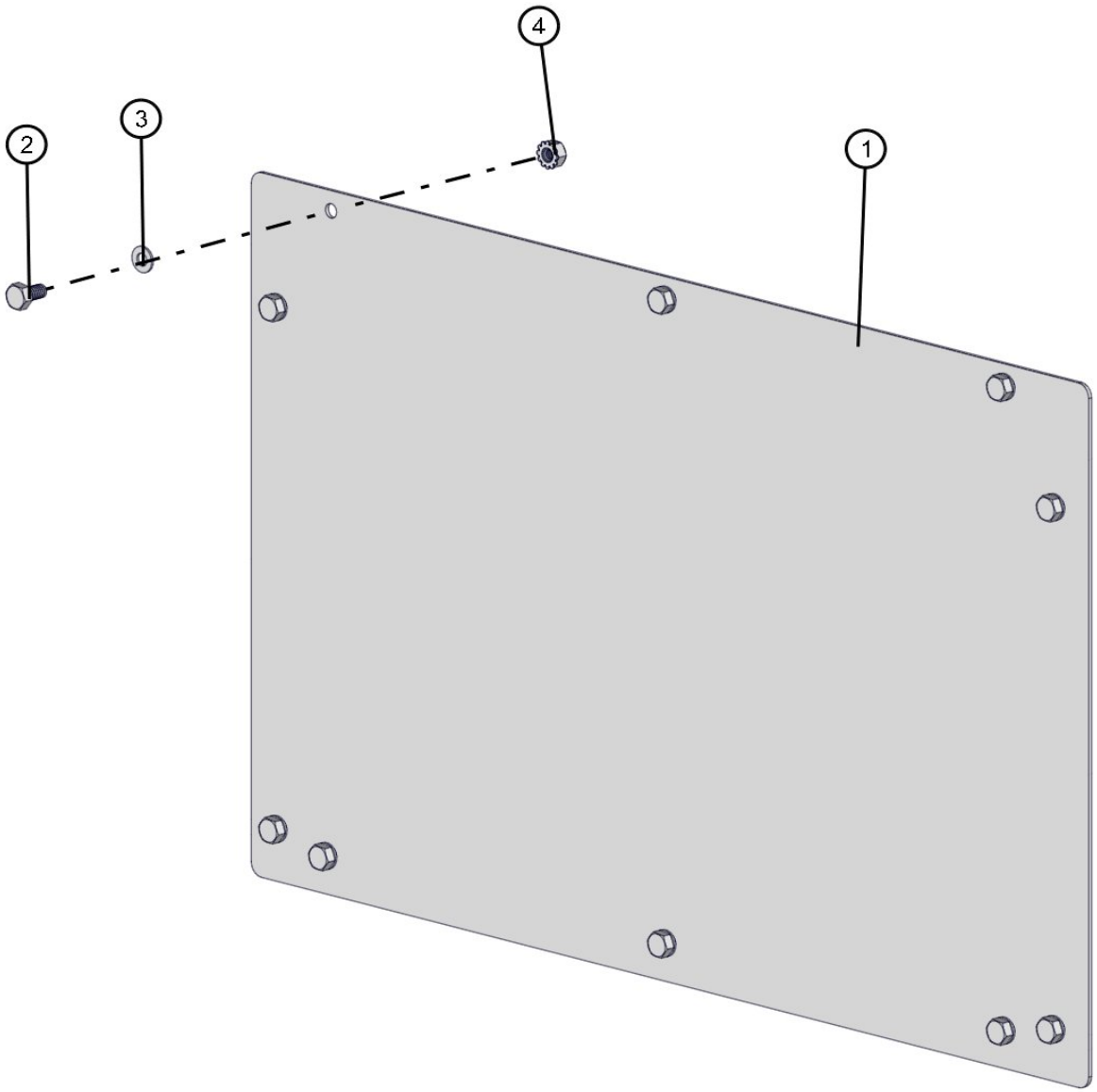
NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

SHUTOFF VALVE BRACKET
ML FCS MINE SPEC II SERIES



NO	Qty	PARTNO	DESCRIPTION
1	1	103900P	BRACKET T HANDLE
2	2	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
3	2	044021	1/4-20 KEPS HEX NUT PL
4	1	104227	DECAL ENGINE SHUTDOWN TEST

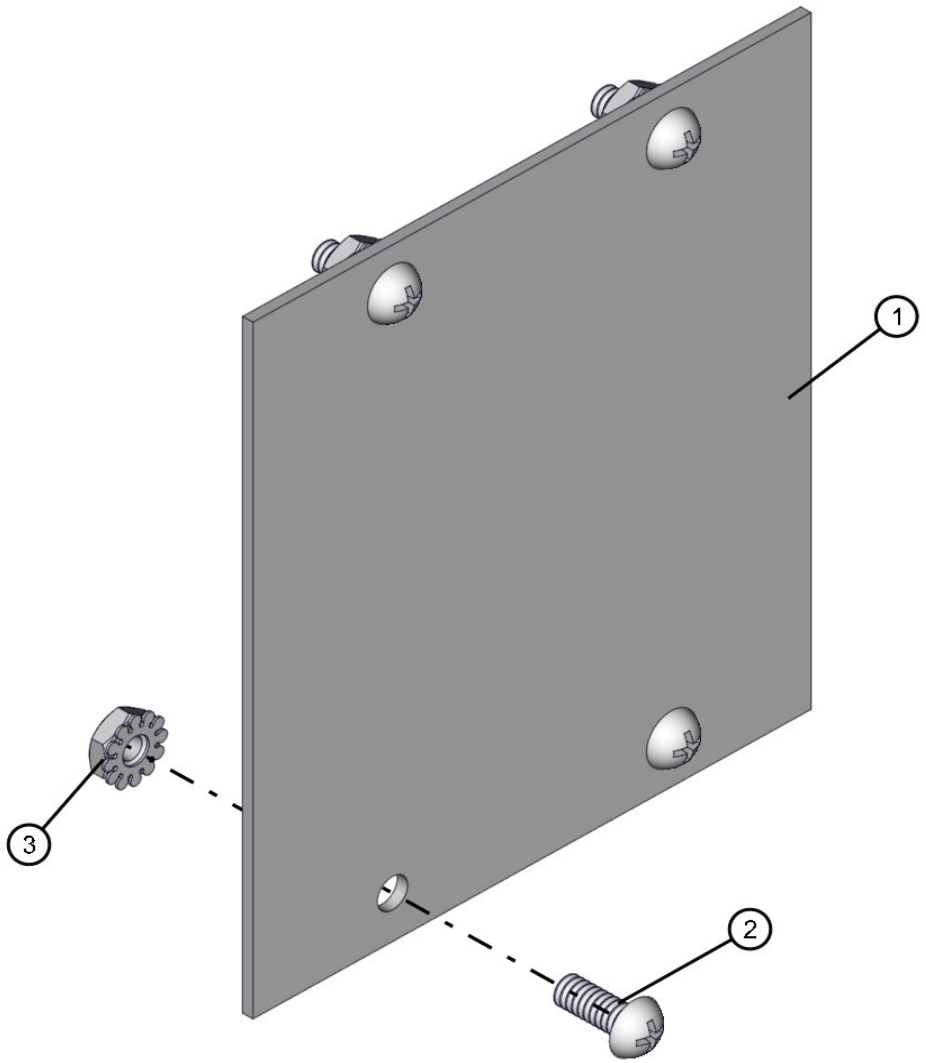
REAR OUTLET COVER
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	103366P	COVER PANEL
2	10	046005	1/4-20 X 1/2 HEX HEAD CS GR5 PL
3	10	047009	1/4 FLAT WASHER SAE SS
4	10	044021	1/4-20 KEPS HEX NUT PL

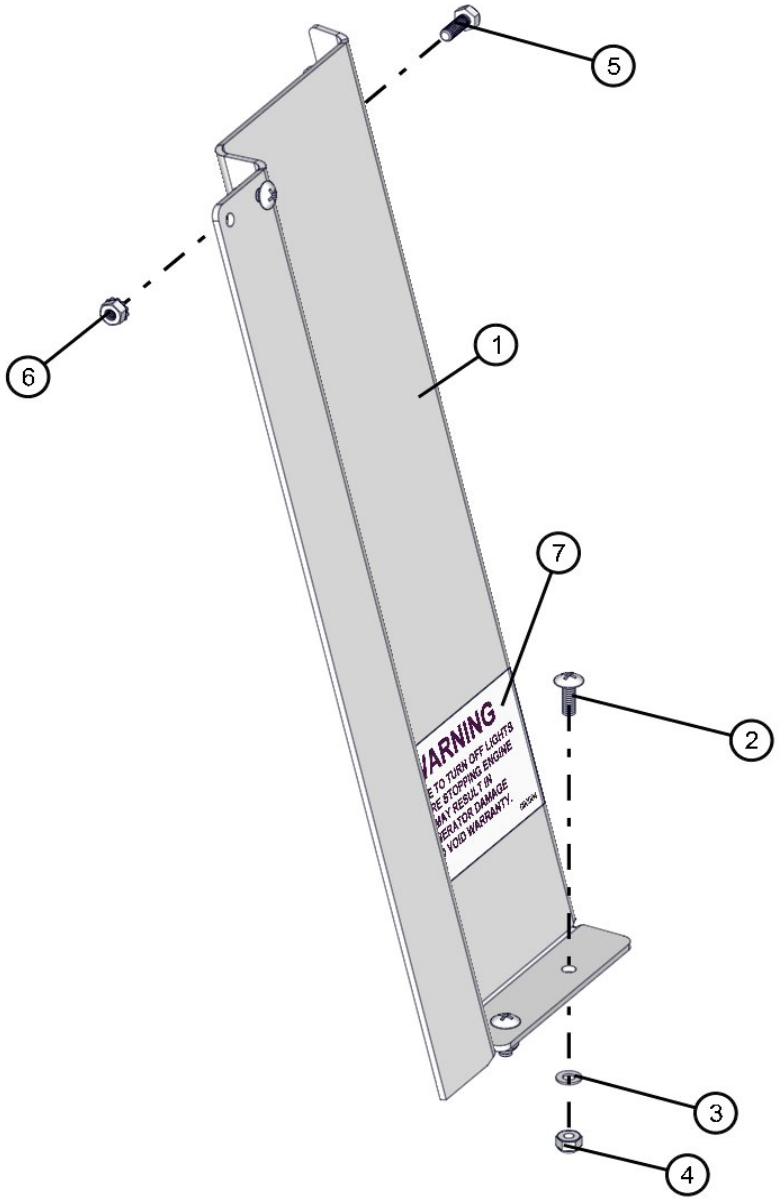
NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

REAR RECEPTICAL COVER
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	680513P	COVER PLATE
2	4	041021	#10-24 X 1/2 PH-ROUND HEAD MS PL
3	4	044016	#10-24 KEPS HEX NUT PL

LEFT FRONT QUARTER PANEL
ML FCS MINE SPEC II SERIES

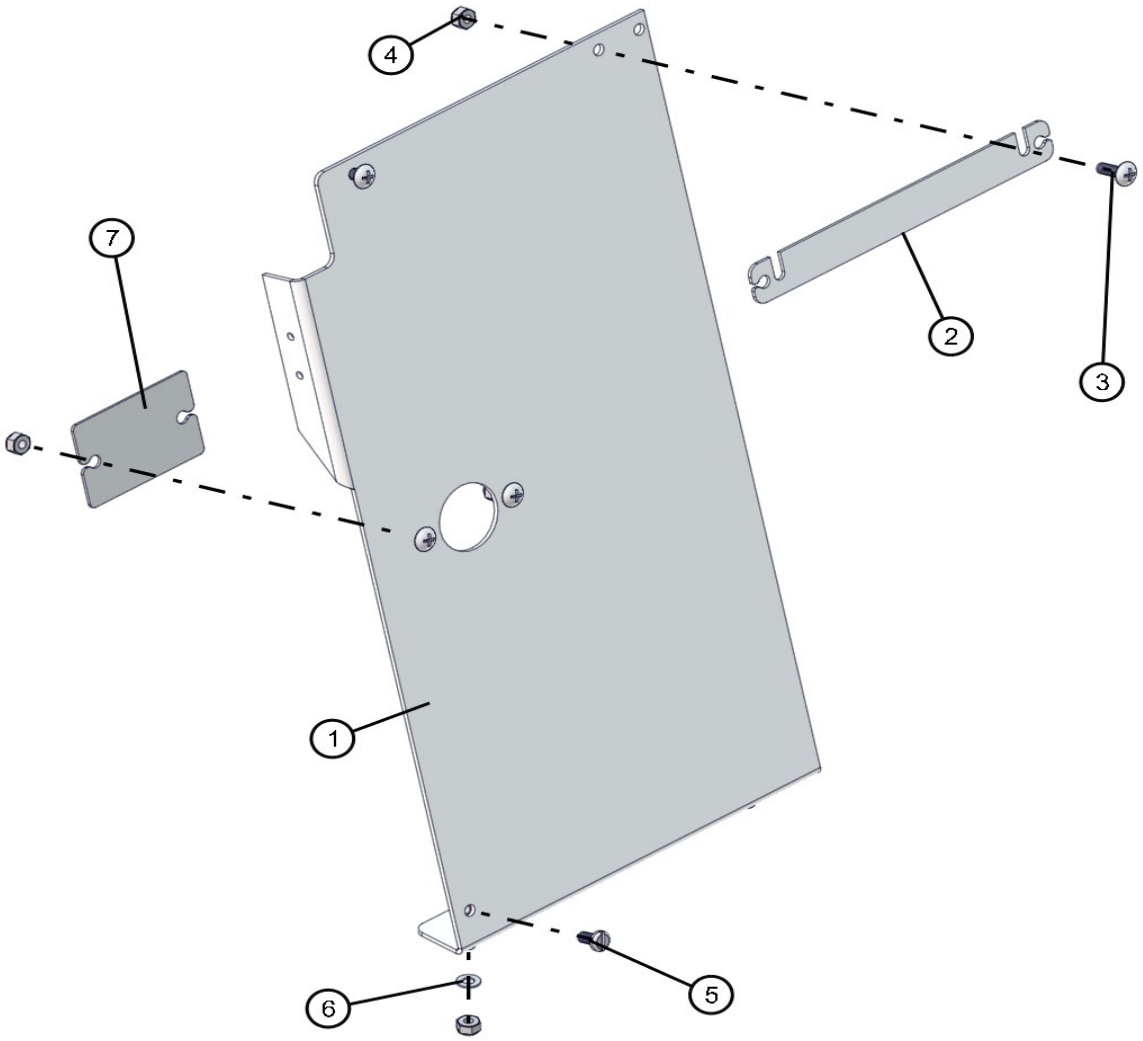


NO	QTY	PARTNO	DESCRIPTION
1	1	109714P	QUARTER PANEL
2	3	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
3	2	047009	1/4 FLAT WASHER SAE SS
4	3	044023	1/4-20 NYLOCK HEX NUT PL
5	2	046010	1/4-20 X 3/4 HEX HEAD CS GR5 SS
6	2	044021	1/4-20 KEPS HEX NUT PL
7	1	090084	TURN OFF LIGHTS DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

RIGHT FRONT QUARTER PANEL
ML FCS MINE SPEC II SERIES

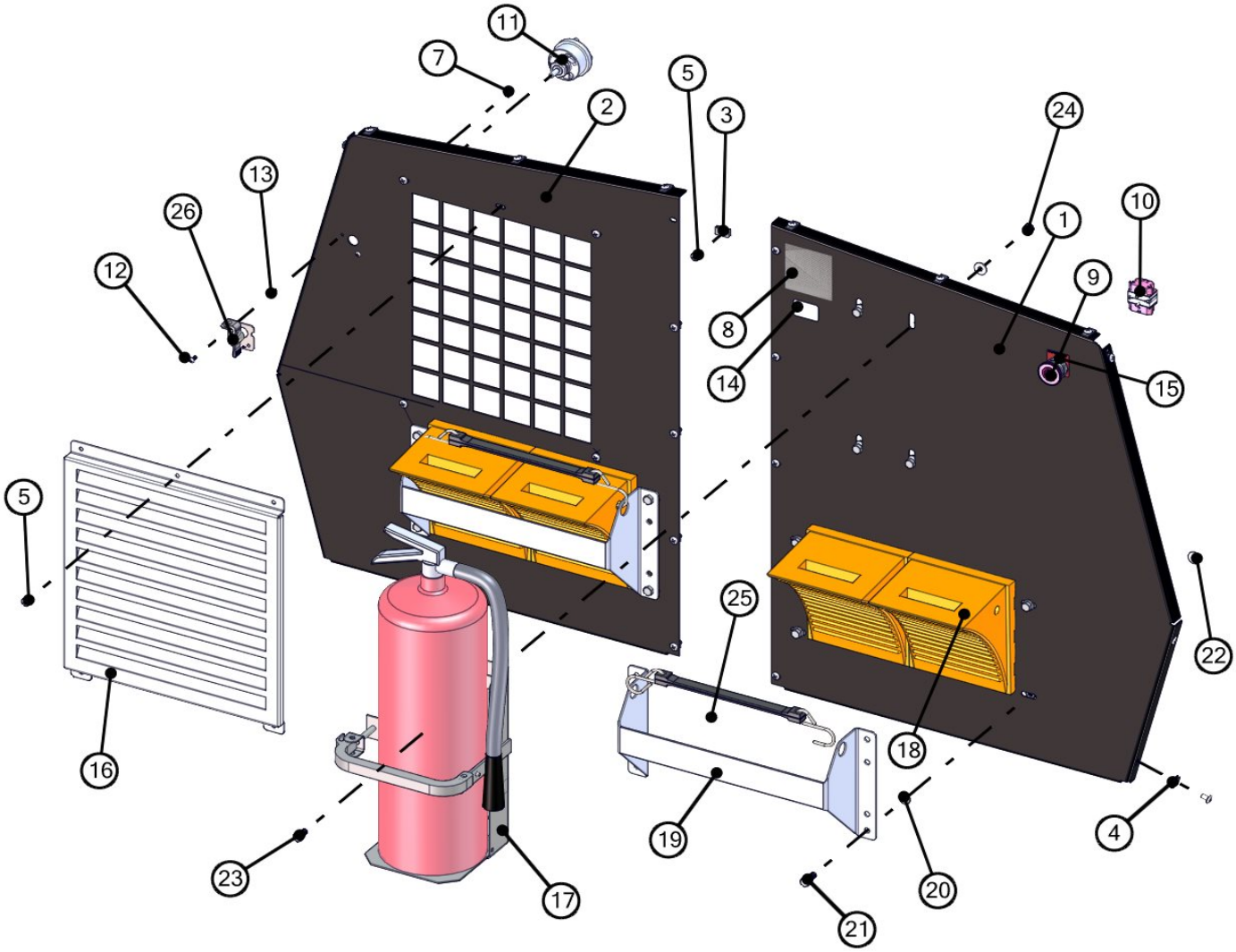
6/6/13



NO	QTY	PARTNO	DESCRIPTION
1	1	109708P	QUARTER PANEL
2	1	680341P	FRONT SPACER
3	6	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
4	7	044023	1/4-20 NYLOCK HEX NUT PL
5	1	041250	1/4-20 X 1/2 SL-BINDER HEAD MS NYLON
6	2	047009	1/4 FLAT WASHER SAE SS
7	1	680329P	COVER PLATE

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

FRONT PANELS
ML FCS MINE SPEC II SERIES



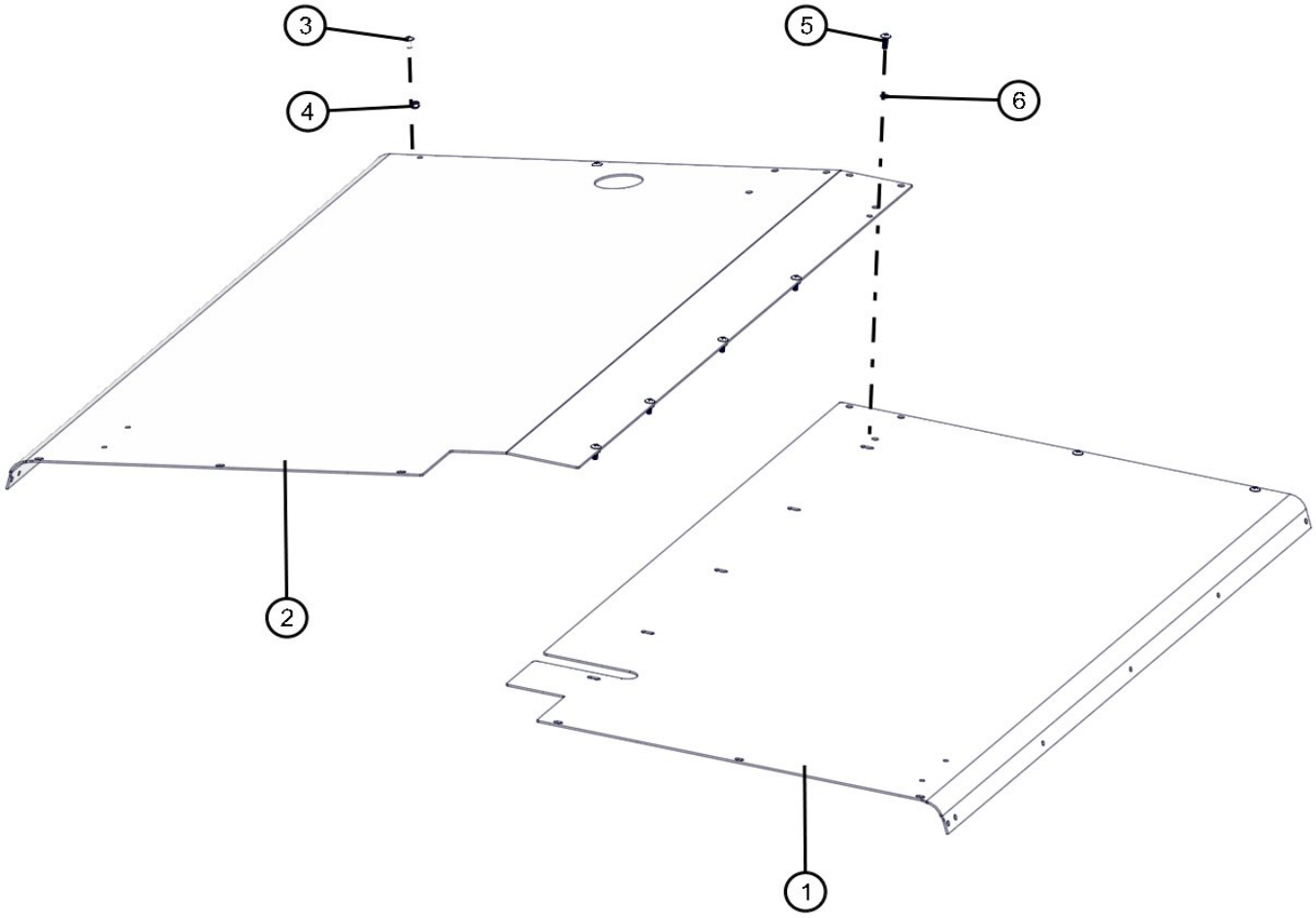
NO	Qty	PARTNO	DESCRIPTION
1	1	103982P	L FRONT PANEL
2	1	109744P	RT FRONT PANEL
3	16	044106	NUT U EXTRUDED 1/4-20
4	5	045216	1/4-20 TINNERMAN NUT
5	23	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
7	6	044023	1/4-20 NYLOCK HEX NUT PL
8	1	090162	HAZARDOUS VOLTAGE DECAL DANGER DECAL
9	1	650460	EMERGENCY STOP
10	2	650461	CONTACT BLOCK EMERGENCY STOP
11	1	102534	SWITCH BATTERY DISCONNECT
12	2	041024	#10-24 X 1/2 PH-ROUND HEAD MS SS
13	2	044016	#10-24 KEPS HEX NUT PL
14	1	103522	60Hz ELEC. SYSTEM DECAL

NO	Qty	PARTNO	DESCRIPTION
15	1	103432	LEGEND PLATE BATTERY DISCONNECT
16	1	104034P	FRONT COVER
17	1	109725P	BRACKET EXTINGUISHER FIRE HD
18	4	104031	WHEEL CHOCK
19	2	103621P	BRACKET WHEEL CHOCK
20	8	100644	RUBBER WASHER BLK NEOPRENE
21	8	046110	3/8-16 X 1 HEX HEAD CS GR5 PL
22	12	047012	5/16 FLAT WASHER
23	4	046105	3/8-16 X 3/4 HEX HEAD CS GR8 PL
24	12	044038	3/8-16 NYLOCK HEX NUT PL
25	2	103625	STRAP RUBBER 14"
26	1	103483	LOCK OUT BATTERY DISCONNECT

FIRE EXTIGUISHER NOT PROVIDED BY ALLMANDS

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

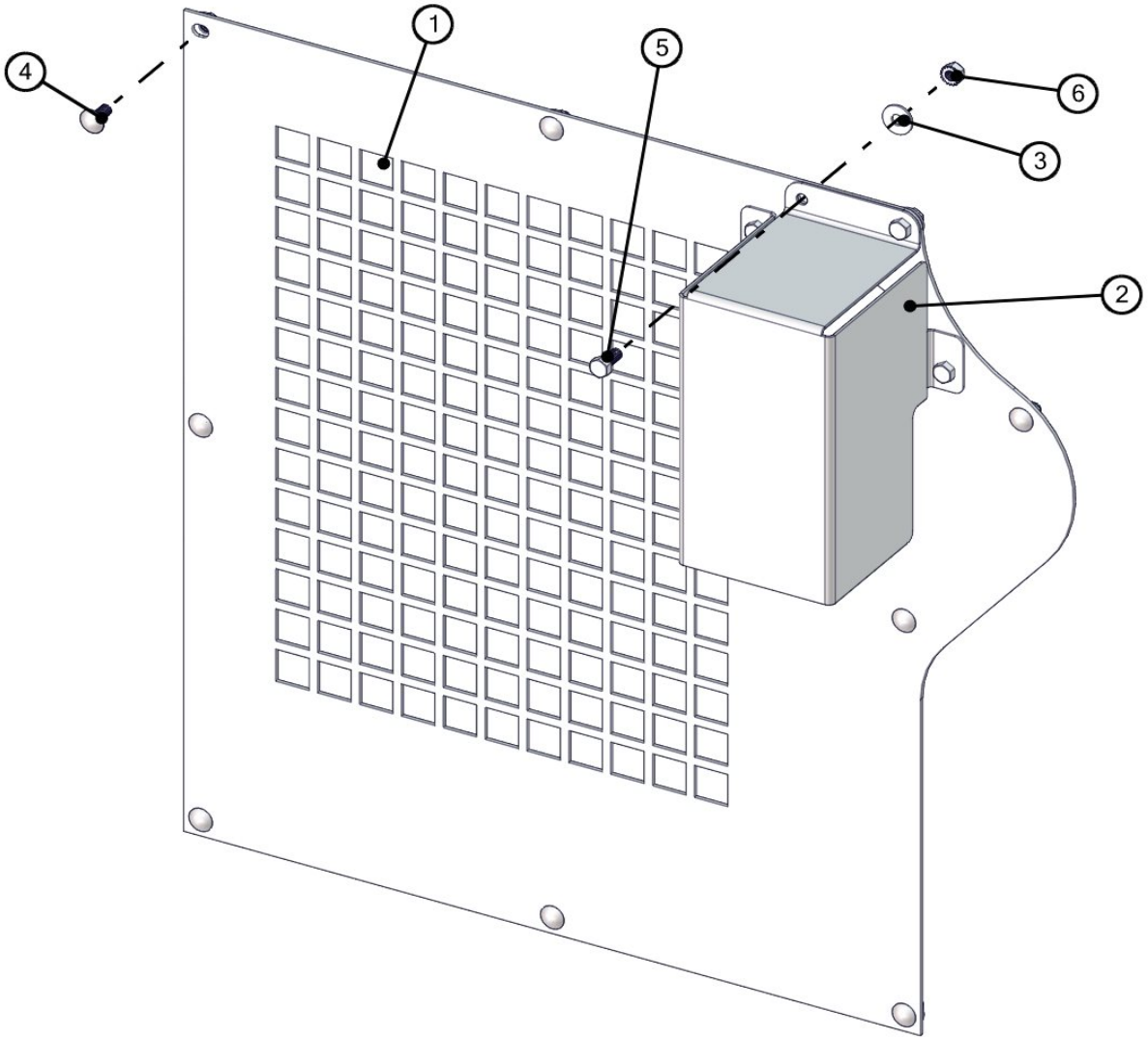
ROOF PANELS
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	109660P	LEFT ROOF PANEL
2	1	109667P	RT ROOF PANEL
3	4	041078	1/4-20 X 1/2 PH-TRUSS HEAD MS SS
4	9	044023	1/4-20 NYLOCK HEX NUT PL
5	5	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
6	5	047009	1/4 FLAT WASHER SAE SS

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

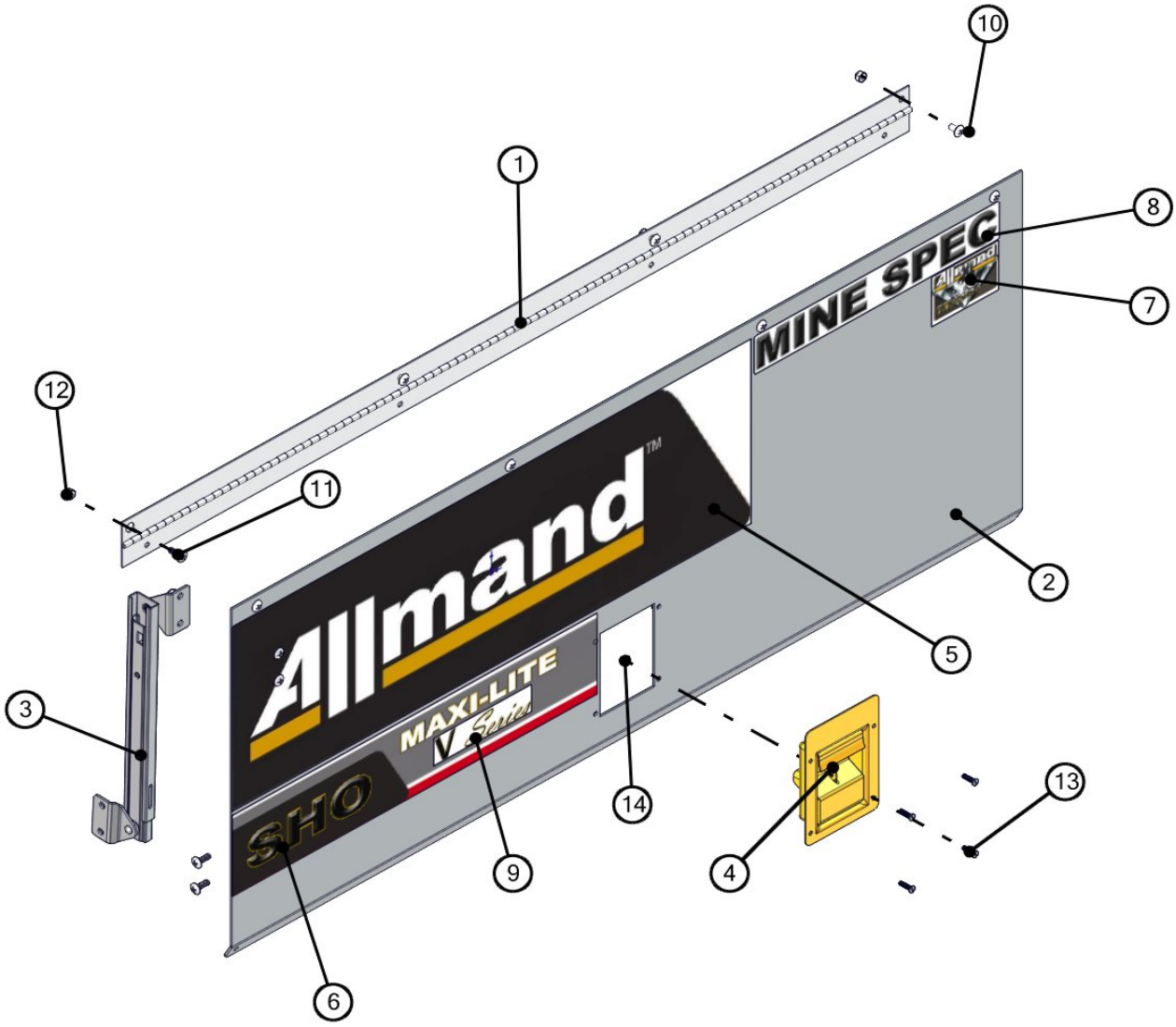
RADIATOR PLATE
ML FCS MINE SPEC II SERIES



NO	Qty	PARTNO	DESCRIPTION
1	1	104023P	RADIATOR PANEL
2	1	104028P	SHIELD TAILPIPE
3	13	047010	5/16 FLAT WASHER PL
4	8	102081	5/16-18 X 3/4 CARRIAGE BOLT GR5

NO	Qty	PARTNO	DESCRIPTION
5	5	046050	5/16-18 X 3/4 HEX HEAD CS GR5 PL
6	13	044031	5/16 -18 KEPS HEX NUT PL

RIGHT DOOR
ML FCS MINE SPEC II SERIES

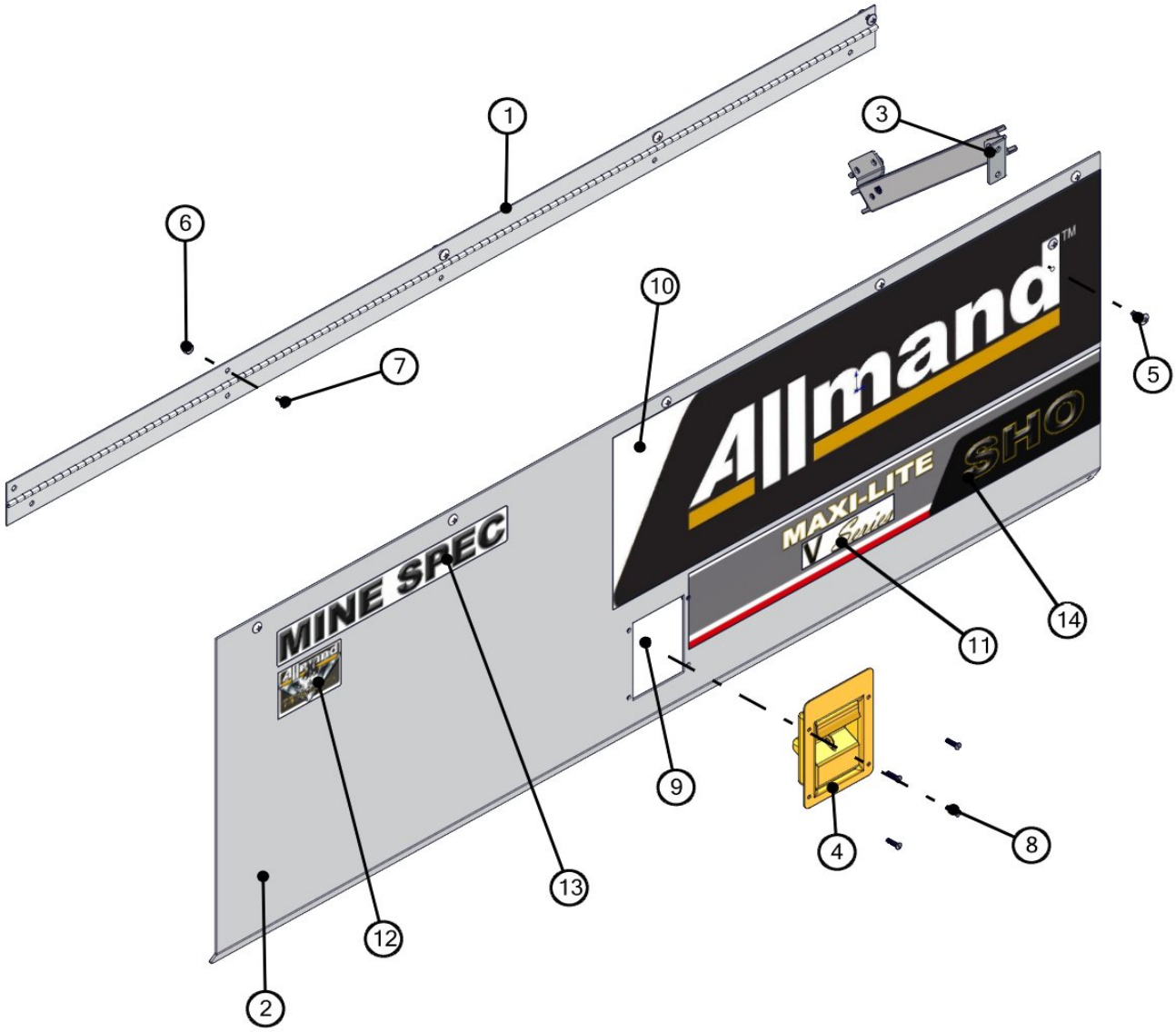


NO	Qty	PARTNO	DESCRIPTION
1	1	680258	RIGHT HINGE
2	1	109664P	RIGHT DOOR
3	1	352057	TELESCOPIC DOOR PROP
4	1	680459	SLAM LATCH
5	1	100923	32" BANNER RIGHT DECAL
6	1	102547	RIGHT SIDE BANNER DECAL
7	1	104140	75 th ANNIVERSARY ALLMAND
8	1	104007	MINE SPEC II DECAL

NO	Qty	PARTNO	DESCRIPTION
9	1	102554	V SERIES DECAL
10	7	041078	1/4-20 X 1/2 PH-TRUSS HEAD MS SS
11	5	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
12	12	044023	1/4-20 NYLOCK HEX NUT PL
13	4	041026	#10-24 X 3/4 SL-FLAT HEAD MS PL
14	4	044016	#10-24 KEPS HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

LEFT DOOR
ML FCS MINE SPEC II SERIES

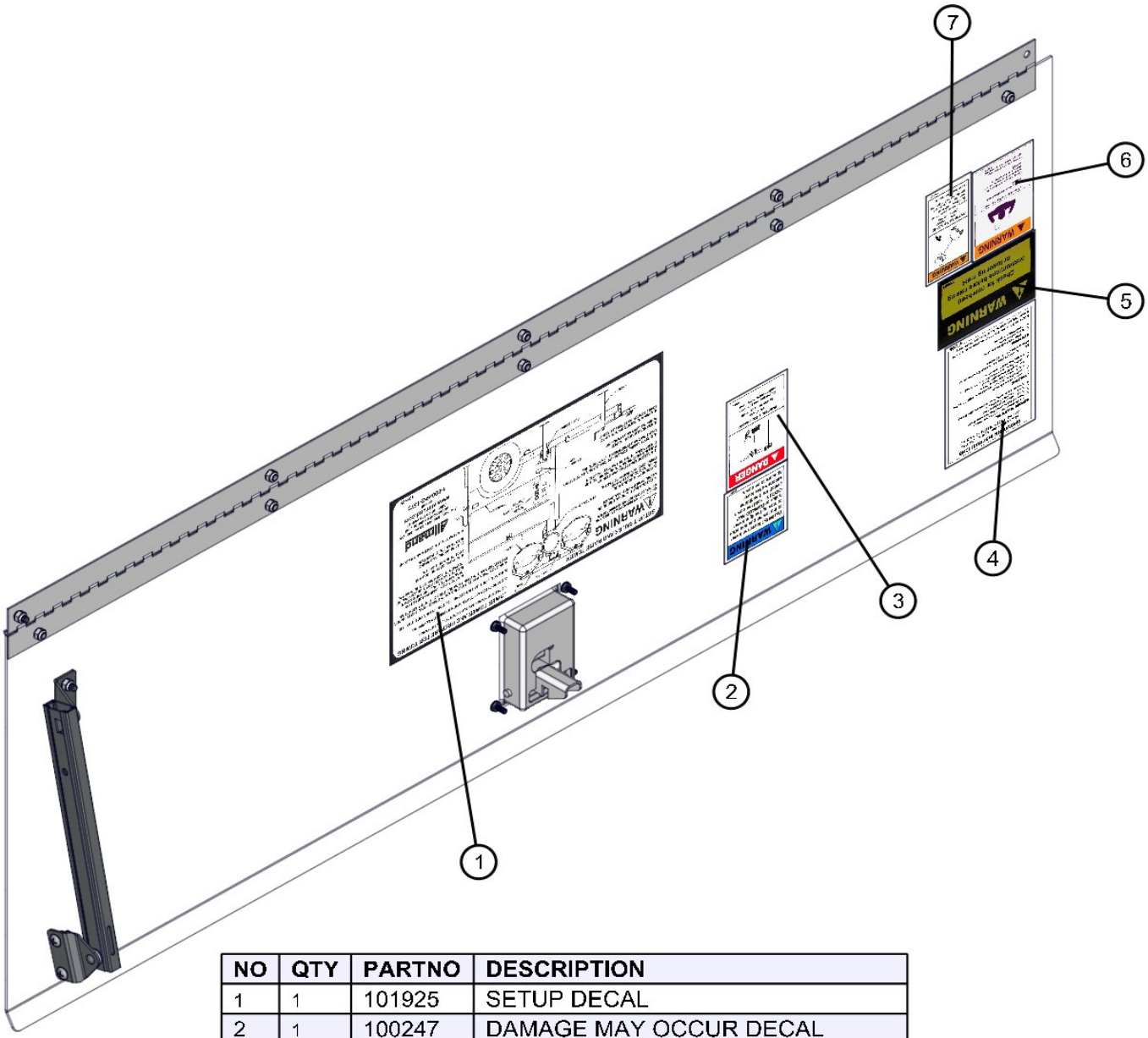


NO	Qty	PARTNO	DESCRIPTION
1	1	352023	DOOR HINGE
2	1	109656P	LEFT SLAM LATCH DOOR
3	1	352057	TELESCOPIC DOOR PROP
4	1	680459	SLAM LATCH
5	5	041050	1/4-20 X 3/4 PH-TRUSS HEAD MS SS
6	13	044023	1/4-20 NYLOCK HEX NUT PL
7	8	041078	1/4-20 X 1/2 PH-TRUSS HEAD MS SS
8	4	041026	#10-24 X 3/4 SL-FLAT HEAD MS PL

NO	Qty	PARTNO	DESCRIPTION
9	4	044016	#10-24 KEPS HEX NUT PL
10	1	100922	32" BANNER LEFT DECAL
11	1	102554	V SERIES DECAL
12	1	104140	75 th ANNIVERSARY ALLMAND
13	1	104007	MINE SPEC II DECAL
14	1	102546	LEFT SIDE BANNER DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

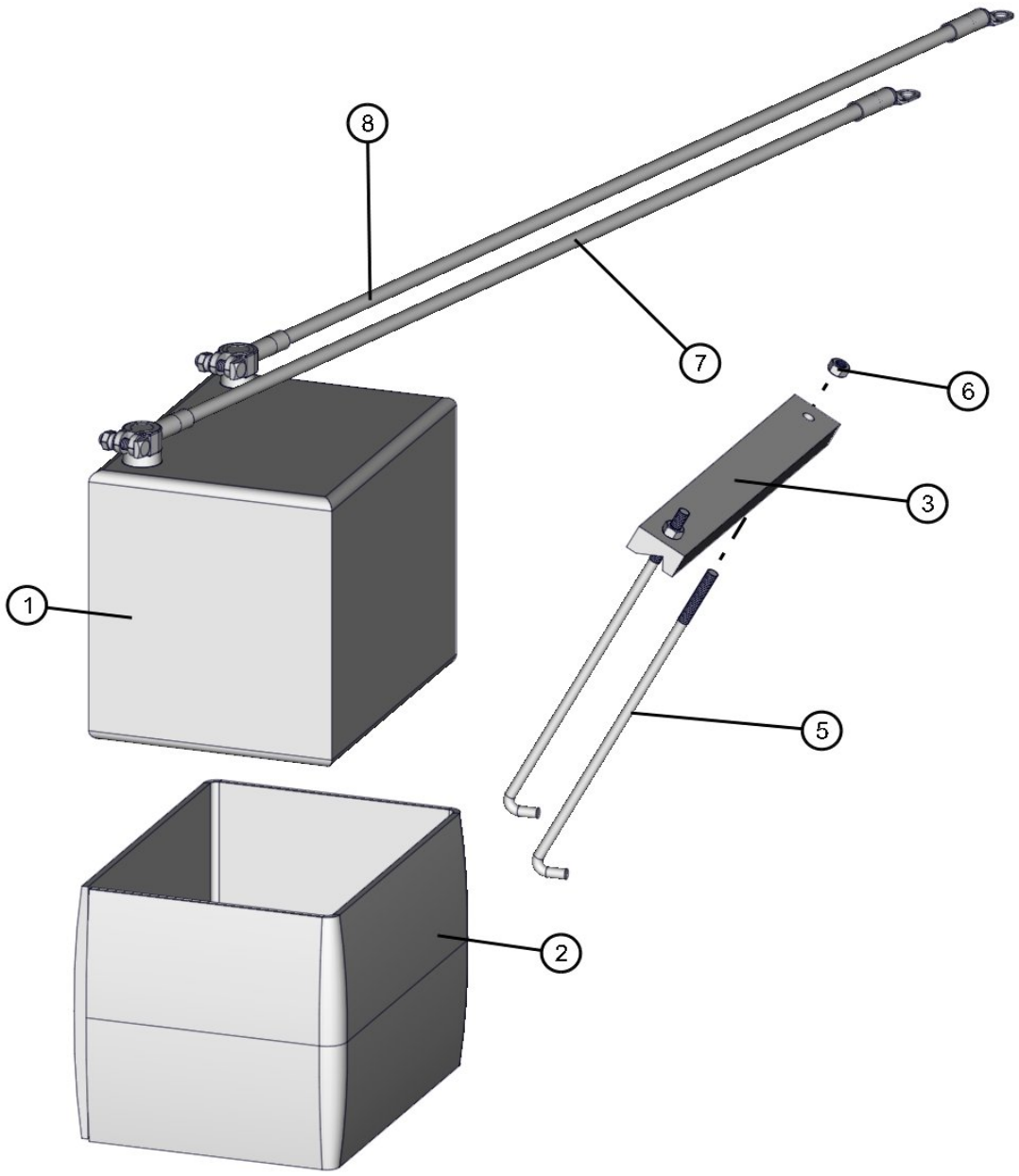
LEFT DOOR INSIDE VIEW
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	101925	SETUP DECAL
2	1	100247	DAMAGE MAY OCCUR DECAL
3	1	090165	ELECTRICAL SHOCK DECAL
4	1	102909	OPERATING INSTRUCTIONS DECAL
5	1	090005	CHECK OVERHEAD DECAL
6	1	090158	OPERATORS MANUAL DECAL
7	1	090166	OVERHEAD HAZARD DECAL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

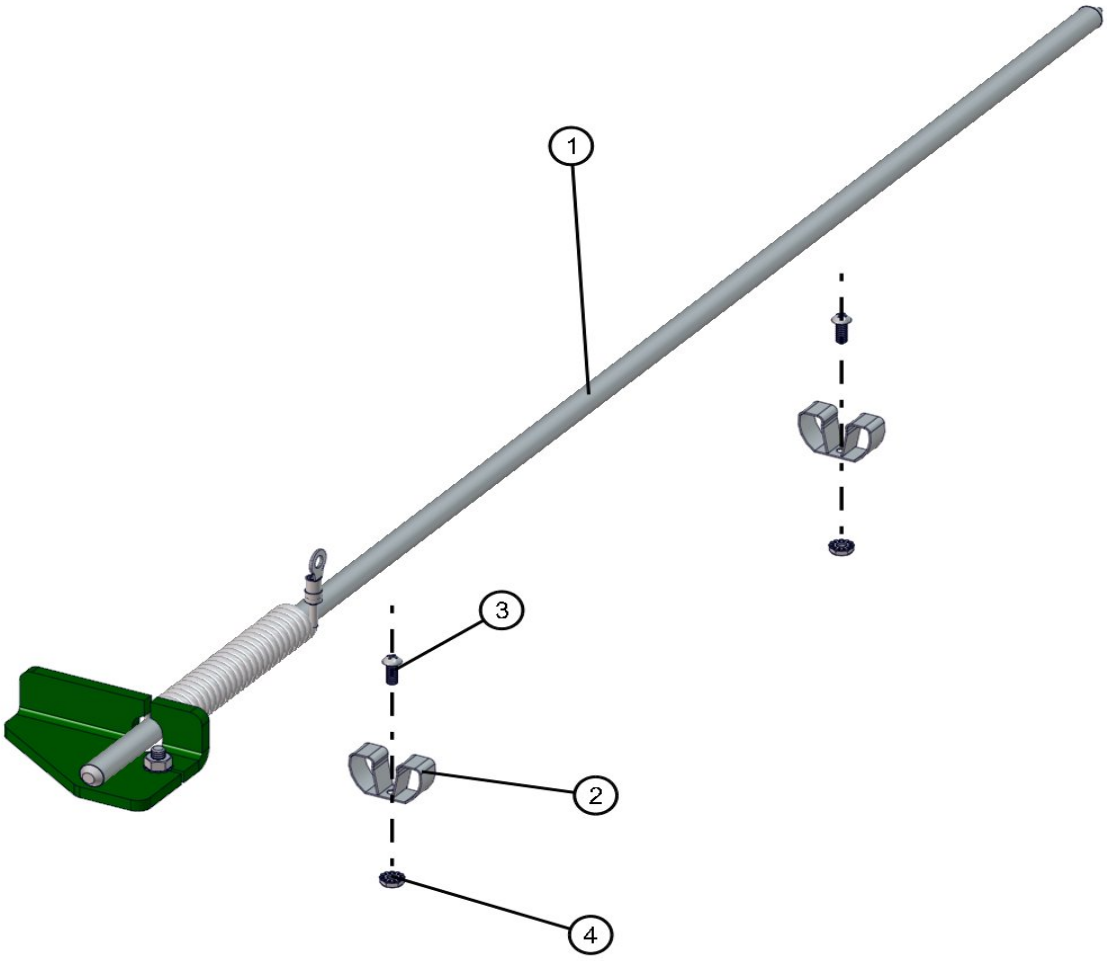
BATTERY
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	024003	BATTERY 12 VOLT HD 75
2	1	024010	BATTERY BLANKET 80W
3	1	340017	HOLD DOWN
5	1	433507	5/16-18 J BOLT
6	2	044030	5/16-18 HEX NUT PL
7	1	027010	BLACK BATTERY CABLE
8	1	027010	RED BATTERY CABLE

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

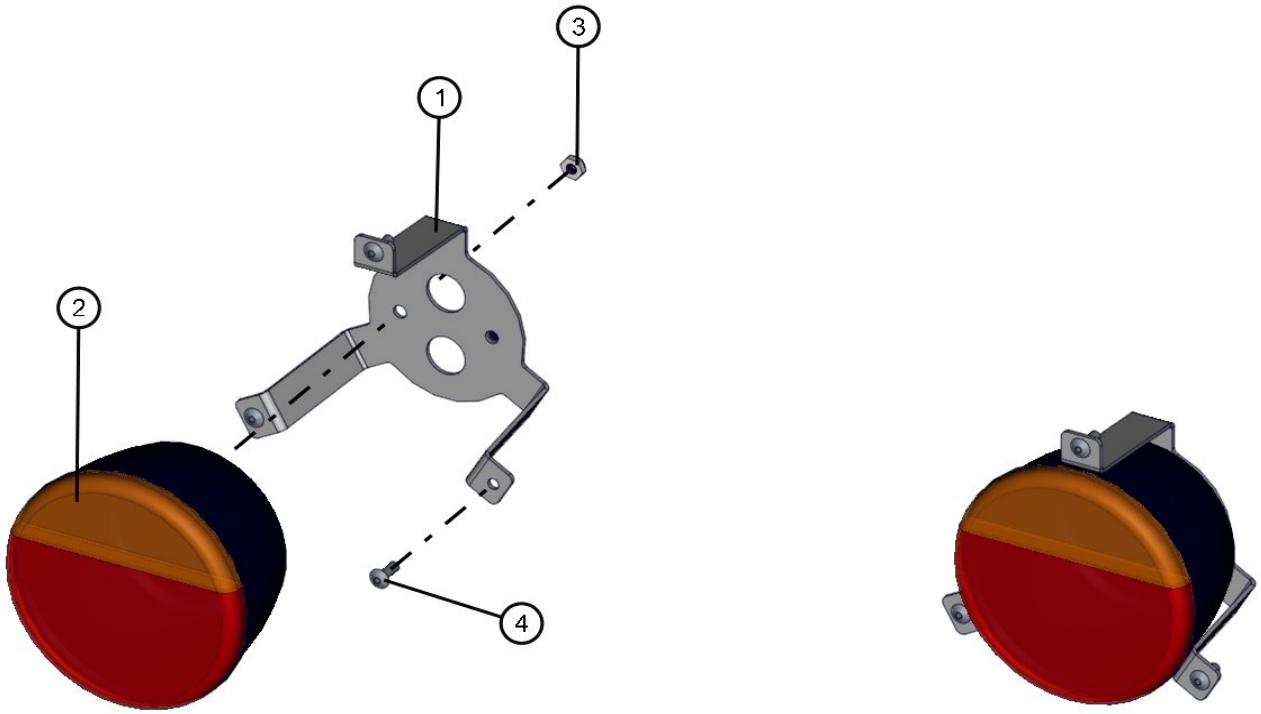
GROUND ROD
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	340058	GROUND ROD
2	2	330481	GROUND ROD CLIP
3	2	041024	#10-24 X 1/2 PH-ROUND HEAD MS SS
4	2	044016	#10-24 KEPS HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

TAIL LIGHTS
ML FCS MINE SPEC II SERIES

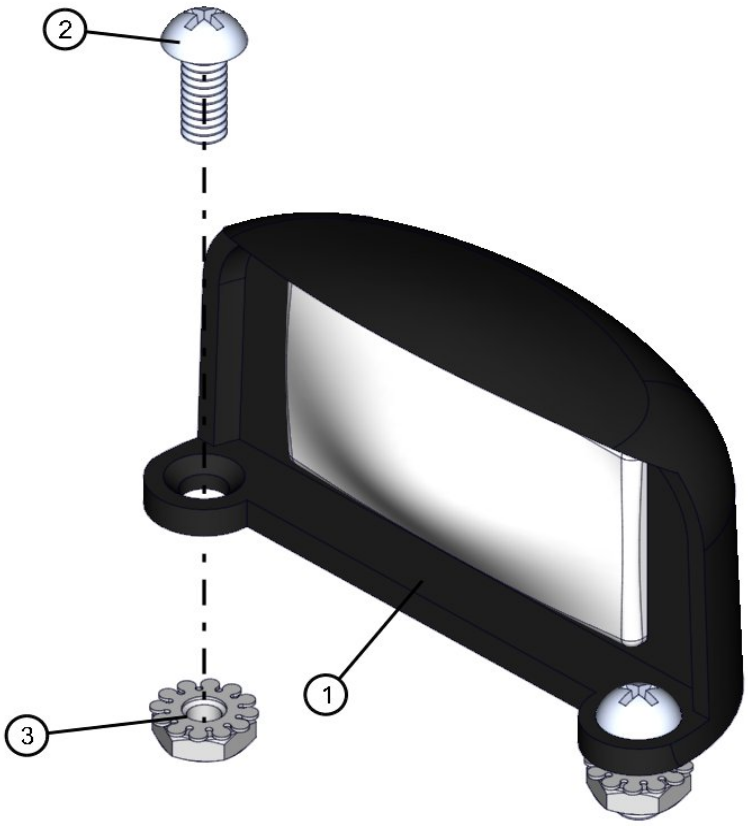


NO	QTY	PARTNO	DESCRIPTION
1	2	102153P	BRACKET
2	2	102107	COBO TAILLIGHT
3	4	044131	#10-32 KEPS NUT

NO	QTY	PARTNO	DESCRIPTION
4	6	045110	3/16 RIVET

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”

LICENCE PLATE LAMP
ML FCS MINE SPEC II SERIES



NO	QTY	PARTNO	DESCRIPTION
1	1	C103489	LICENCE PLATE LAMP
2	2	041024	#10-24 X 1/2 PH-ROUND HEAD MS SS
3	2	044016	#10-24 KEPS HEX NUT PL

NOTE: NS = NOT SHOWN. WHEN ORDERING, SPECIFY THE COLOR WANTED ON PARTS CONTAINING THE LETTER “P”