

AllmandTM

MAXI-LITE V-SERIES

ML 15/ML 20 OPERATOR'S MANUAL

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AllmandTM MAXI-LITE SERIES

Part No. 106776

For Parts and Updates visit Allmand on the Web at www.allmand.com

INSPECTION CHECK LIST

FOR PREPARING THE MAXI LITE FOR DELIVERY OR RENTAL

The **MAXI LITE V-SERIES** requires service as well as proper operation in order to provide the performance and safety it has been designed for. Never deliver or put a machine into service with known defects or missing instructions or decals. Always instruct the customer in the proper operation and safety procedures as described in the 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 tower latch and knob assembly which locks the tower in the vertical position for proper operation
- Check the hitch assembly and safety tow 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
- Check the ground rod cable and the ground lug. Make sure they are clean, undamaged, and functional.
- Inspect the tires to ensure good condition and proper inflation
- Check oil, fuel, coolant levels, and hydraulic fluid levels.
- Check to make sure the operator's manual is with the equipment.
- Inspect the machine physically for damage and repair if necessary.
- Inspect the light bar and latch in transport position.

NOTE: See appropriate section of manual for scheduled maintenance intervals.

After completing the inspection check list, operate the tower through a complete operation cycle, following the operating instructions in the operator's manual.

WARNING

**NEVER ALLOW ANYONE TO OPERATE THE EQUIPMENT WITHOUT
PROPER TRAINING!**

ALWAYS READ THE INSTRUCTIONS FIRST!

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INTRODUCTION

- This manual provides the information necessary for the safe operation of the Allmand Bros., Inc., **MAXI-LITE V-SERIES** light tower.
- The **MAXI-LITE V-SERIES** standard tower is operated with a 12 VDC hydraulic pump and hydraulic cylinder.
- Specific operating instructions and specifications are contained in this publication to familiarize the operator and maintenance personnel with the correct and safe procedures necessary to maintain and operate the equipment.

Take time to read this book thoroughly. If you are uncertain about any of the information presented in the manual, contact the factory or your dealer for clarification before operation.

SAFETY SYMBOLS

The purpose of the **SAFETY INFORMATION SYMBOL** shown below is to attract your special attention to safety related information contained in the text.

 **DANGER**

 **WARNING**

 **CAUTION**

FAILURE TO UNDERSTAND AND COMPLY WITH SAFETY RELATED INFORMATIONAL INSTRUCTIONS MAY RESULT IN INJURY TO OPERATOR OR OTHERS. IF YOU DO NOT UNDERSTAND ANY PART OF THIS INFORMATION CONTACT YOUR DEALER FOR CLARIFICATION PRIOR TO OPERATING EQUIPMENT.

NOTE

The word **NOTE** is used to bring your attention to supplementary information in relation to various aspects of proper operation and maintenance.

NOTE: Keep this manual accessible during operation to provide convenient reference.

NOTE: Any reference in this manual to **LEFT** or **RIGHT** shall be determined by looking at the trailer from the rear.

SAFETY AND WARNING DECALS

SAFETY WARNING

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 MAXI-LITE to insure correct ordering if replacing becomes necessary.

OPERATING INSTRUCTIONS
Read and understand Operator's Manual before operating machine.

BEFORE STARTING:

1. Visually inspect machine for leaks or damage.
2. Make sure battery connections are clean and tight.
3. Check engine oil level (see manual).
4. Check fuel supply (see manual).
5. Check air cleaner, seals, hoses and clamps (see manual).


STARTING:

1. Turn off all circuit breakers.
2. Turn switch to Preheat position, hold until the glow plug lamp goes out.
3. Turn switch to start position until the engine starts. Release key as soon as the engine starts.
4. If engine fails to start, repeat cycle.

NOTE Do not crank for more than 10 seconds without allowing starter to cool for 30 seconds

STOPPING:

1. Turn lights off with circuit breakers.
2. Unplug external leads.
3. Turn switch to (OFF) position.


 CAUTION

MAKE SURE GROUND ROD IS PUT AWAY AND JACKS, OUTRIGGERS AND MAST ARE FULLY RETRACTED AND LOCKED INTO PLACE BEFORE TOWING.

090249

PART NO. 090249
Location: Inside left hand door panel.

SETUP TRAILER AND RAISE TOWER

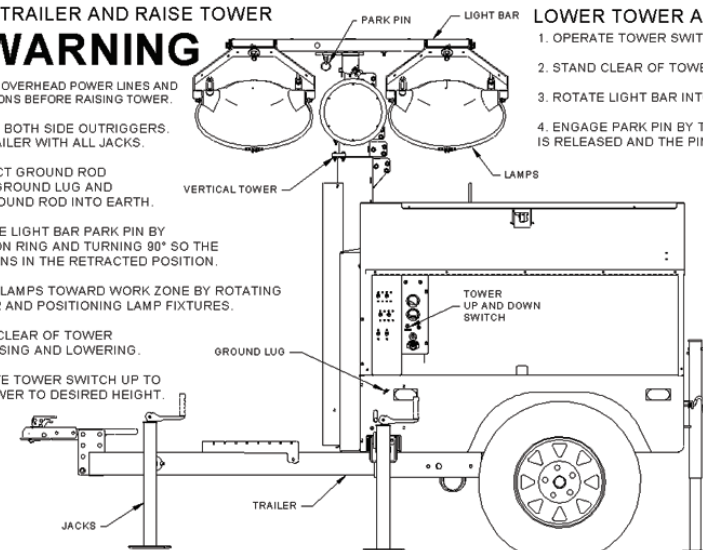
 WARNING

CHECK FOR OVERHEAD POWER LINES AND OBSTRUCTIONS BEFORE RAISING TOWER.

1. EXTEND BOTH SIDE OUTRIGGERS. LEVEL TRAILER WITH ALL JACKS.
2. CONNECT GROUND ROD WIRE TO GROUND LUG AND DRIVE GROUND ROD INTO EARTH.
3. RELEASE LIGHT BAR PARK PIN BY PULLING ON RING AND TURNING 90° SO THE PIN REMAINS IN THE RETRACTED POSITION.
4. DIRECT LAMPS TOWARD WORK ZONE BY ROTATING LIGHT BAR AND POSITIONING LAMP FIXTURES.
5. STAND CLEAR OF TOWER WHEN RAISING AND LOWERING.
6. OPERATE TOWER SWITCH UP TO RAISE TOWER TO DESIRED HEIGHT.

LOWER TOWER AND PREPARE FOR TOWING

1. OPERATE TOWER SWITCH DOWN TO LOWER TOWER.
2. STAND CLEAR OF TOWER WHEN RAISING AND LOWERING.
3. ROTATE LIGHT BAR INTO PARK POSITION (IN LINE WITH TRAILER).
4. ENGAGE PARK PIN BY TWISTING ON THE RING UNTIL THE PLUNGER IS RELEASED AND THE PIN ENGAGES THE HOLE IN THE LIGHT BAR.
5. REPOSITION LAMP FIXTURES FOR TRANSPORT BY PULLING THEM DOWN INTO THE LOWEST POSITION AND FACING TOWARD THE CENTER OF THE TRAILER.
6. REMOVE GROUND ROD AND SECURE INSIDE TRAILER.
7. RAISE JACKS AND SWING INTO TRANSPORT POSITION.
8. RETRACT OUTRIGGERS AND SECURE.

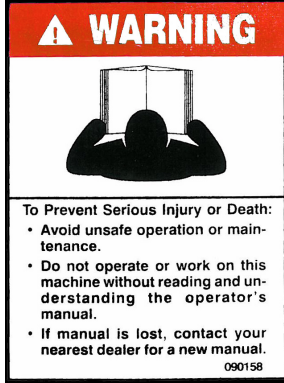


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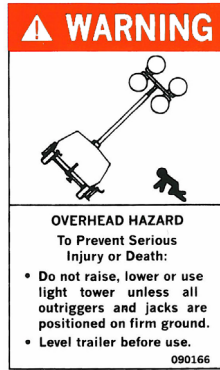
101925

PART NO. 101925
Location: Inside left hand door panel.

SAFETY AND WARNING DECALS



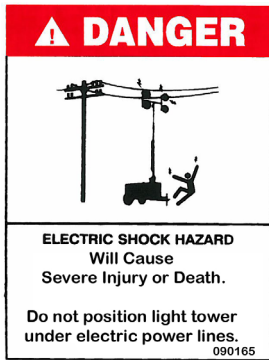
PART NO. 090158
Location: AC control panel



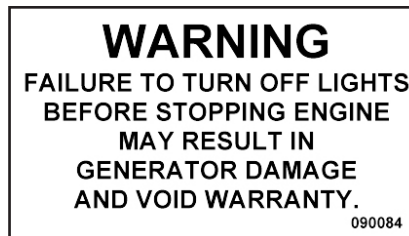
PART NO. 090166
Location: Inside left hand door panel



PART NO. 090163
Location: On left side wheel well



PART NO. 090165
Location: Inside left hand door panel



PART NO. 090084
Location: AC control panel



PART NO. 090162
Location: On left front enclosure panel

GROUNDING LUG 090133

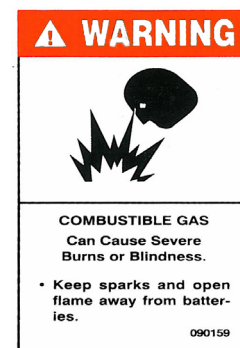
PART NO. 090133
Location: On left side panel below ground lug

DIESEL 090034

PART NO. 090034
Location: On left inner fender adjacent to fuel tank filler neck



PART NO. 090226
Location: Left front panel.



PART NO. 090159
Location: On right hand wheel well

SAFETY AND WARNING DECALS



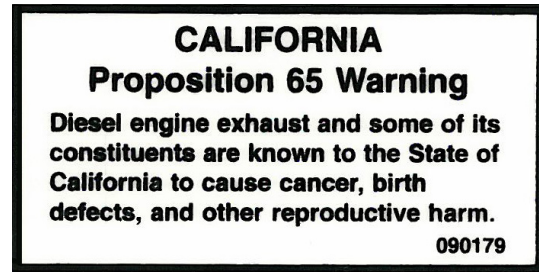
PART NO. 090002
Location: On light bar assembly



PART NO. 090005
Location: Inside left door panel



PART NO. 090160
Location: On trailer drawbar near reversible hitch assembly.



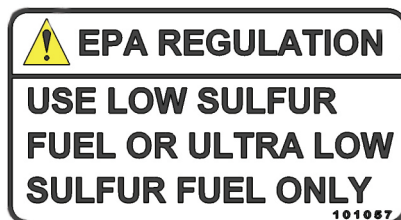
PART NO. 090179
Location: On fuel tank near filler neck.



PART NO. 100247
Location: Inside left door panel.



PART NO. 101404
Location: On either side of mast assembly immediately above roof panel .



PART NO. 101057
Location: On fuel tank near filler neck.



PART NO. 090306
Location: On DC control panel



PART NO. 090465
Location: Inside left door panel.

HYDRAULIC LIFT VERTICAL MAST OPERATION

DESCRIPTION OF OPERATION

The Allmand **MAXI-LITE V Series** hydraulic lift tower assembly consists of a seven section telescoping mast which can be extended by operating a single hydraulic cylinder. The light bar assembly can be rotated into position by releasing the light bar park pin. To release the park pin, pull the ring and turn it 90 degrees so that the pin remains in the retracted position. The light bar is designed to rotate with enough resistance so that the bar will stay in the desired position once the operator has directed the lights on the work zone. 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.



SAFETY WARNING!

- **ALWAYS CHECK FOR OVERHEAD OBSTRUCTIONS BEFORE RAISING AND LOWERING MAST. ALLOW 35' CLEARANCE. AVOID ALL OVERHEAD ELECTRICAL WIRES.**
- **TO PREVENT INSTABILITY AND HELP ENSURE SAFE OPERATION, ALWAYS PROVIDE PROPER GROUND SUPPORT BEFORE RAISING MAST.**

BEFORE RAISING MAST, VISUALLY INSPECT EQUIPMENT FOR DAMAGE OR WEAR. FAMILIARIZE YOURSELF WITH THE LOCATION AND FUNCTION OF ALL OPERATING PARTS BY STUDYING THIS MANUAL. OBSERVE ALL CAUTION DECALS LOCATED ON EQUIPMENT

TO SET UP TOWER AND RAISE LIGHTS

1. Extend both side outrigger jacks, rear jack and tongue jack to stabilize and level the trailer.

NOTE: Jacks should be placed only on firm footing.



SAFETY WARNING!

THE SUPPLEMENTAL GROUND ROD IS A SAFETY DEVICE THAT MAY REDUCE THE CHANCE OF PERSONAL INJURY FROM STRAY ELECTRICAL CURRENT. Therefore, 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.

2. Attach the ground rod to the grounding lug, and drive the ground rod fully for adequate electrical ground, as required by local, state, or national code.
3. Start engine. (NOTE: Tower may be raised and lowered as needed without engine running.)
4. While the tower is still in the down position, position the light bar and lamps so they are aimed at the work zone and tilted at the approximate angle to get maximum coverage once the tower is raised.
5. Stand clear of the tower when raising and lowering the lights.

HYDRAULIC LIFT VERTICAL MAST OPERATION

6. Operate the hydraulic lift switch to the “up” position to raise tower to the desired height.
7. If lights need to be adjusted for better lighting of the work zone after raising the tower, lower the tower using the “down” switch position and make desired adjustments to the light bar and light fixtures. Raise the tower into position. Repeat this step if necessary.
5. Reposition the lamp fixtures for transport by pulling them down into the lowest position and face the fixtures toward the center of the trailer.
6. Remove ground rod from earth. Disconnect wire from ground lug and secure in trailer
7. Raise jacks and rear stand, retract outriggers and secure for towing

NOTE: Ensure the detent pins are properly engaged in the outriggers before towing.



SAFETY WARNING!

VISUALLY INSPECT EQUIPMENT FOR DAMAGE BEFORE OPERATING. ALLOW ADEQUATE CLEARANCE AROUND TRAILER FOR TOWER AND INSURE THAT NO PERSONS ARE STANDING IN UNDER THE LIGHTS WHEN LOWERING.

TO LOWER TOWER AND LIGHTS

1. Turn off lights.
2. Operate the hydraulic lift switch in the down position to lower the lights to the lowest vertical position. When tower reaches the bottom, run switch for three additional seconds to ensure that the tower is at it's lowest possible position.
3. Stop engine.
4. Rotate the light bar into the transport park position (in line with trailer) and engage the park pin by twisting on the park pin ring until the plunger is released and the pin engages the hole in the light bar.

HYDRAULIC TOWER POWER UNIT

GENERAL START UP INSTRUCTIONS

NOTE: The ports are marked on the casing UP and DN. When facing the power unit with the motor up, plug the right hand, or DN port Jog the motor until the oil flows from the left hand, or up port. If oil does not flow from the UP port, reverse the wire leads on the motor, and repeat. 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.

HYDRAULIC PUMP

Hydraulic Oil Specifications

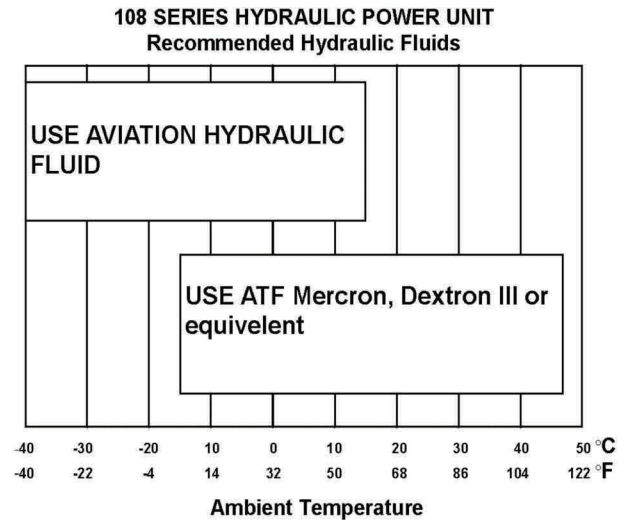


Figure 31

Adding Hydraulic Oil

Fill the reservoir with automatic transmission 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 aviation hydraulic fluid (see Figure 31).



Figure 32

TOWING AND STARTING INSTRUCTIONS

TOWING INSTRUCTIONS

Before towing the MAXI-LITE the trailer should be inspected visually to insure that the following operations have been completed.

1. Hitch is securely attached to towing vehicle (safety chains secure).
2. All outriggers and jacks are retracted and secured.
3. Tower is lowered.
4. Light fixtures are positioned for transport.
5. Doors are closed and secure.
6. Check tires for adequate air pressure
7. Taillights are connected and operating (if equipped).
8. Ground rod is removed from ground and secured in the trailer

GROUND ROD INSTRUCTIONS (If so equipped)

1. Remove optional ground rod stowed just inside the left door (attached to the lower frame)
2. Unroll the electrical wire lead from the ground rod.
3. Attach the ground rod lead to the grounding lug located near the ballast compartment.
4. Drive the ground rod a minimum of 2 1/2 FT into the earth for adequate electrical grounding. If this is not possible consult your local qualified electrician.
5. **AFTER SHUTDOWN OF ENGINE:** Remove the ground rod from the earth, remove lead from the trailer ground lug and store ground rod inside left door.

BEFORE STARTING

1. Fill the engine with the right grade of lubricating oil (see pg. 19) and to correct level (check dipstick).
2. Ensure there is an adequate supply of fuel.
3. Ensure **that the air cleaner is firmly attached**, the air canister seals and the hose clamps are properly sealed. Air cleaner element should be checked and replaced if necessary.
4. Install the ground rod.

DESCRIPTION OF OPERATION

By depressing the start assist switch, the fuel solenoid is energized. The solenoid plunger is drawn into the coil and activates the fuel control linkage to RUN position. When the engine starts, adequate engine oil pressure at the oil pressure switch will maintain the solenoid in the energized position. The start assist switch can be released as soon as the engine starts. A 10A inline fuse protects the solenoid from electrical damage.

LOW OIL PRESSURE SHUTOFF SYSTEM

Should a low oil pressure condition occur (less than 5 PSI), the pressure 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 position.

HIGH COOLANT TEMPERATURE SHUTOFF SYSTEM

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 position.

STARTING INSTRUCTIONS

STARTING THE ENGINE

NOTE: The Isuzu engine includes a glow plug cold start system controlled by the ignition switch on the control panel. Glow plugs are not needed on a warm engine or if the ambient temperature is above 50 F. Do not use starting fluid or ether!

1. Turn the ignition switch to the **PREHEAT** position and hold until the glow plug lamp goes out.
2. Turn the ignition switch to the Start position until the engine starts. Release key as soon as the engine starts.
3. If engine fails to start it may be necessary to cycle the glow plugs again.

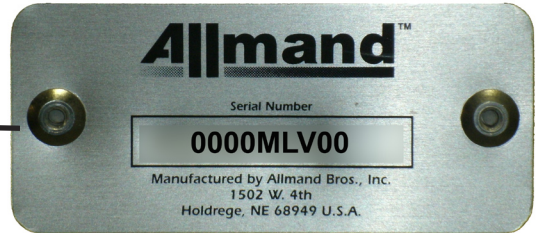
NOTE: To prevent equipment damage, DO NOT hold ignition switch for more than 10 seconds in the start position. If the engine does not start in 10 seconds, wait 30 seconds and try the start sequence again. Do not run the cell motor for more than 20 seconds continuously. Limit engine cranking to 3 attempts with a 2 minute cool-down between each. After 3 attempts allow to cool to ambient temperature.

STOPPING THE ENGINE

1. Turn the ignition switch to the OFF position. This breaks the circuit between the battery and the fuel solenoid, allowing the spring load to immediately move the fuel control to the shutoff position.
2. Disconnect the ground rod (if so equipped).

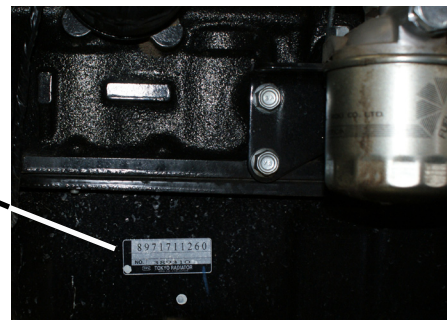
SERIAL NUMBER LOCATIONS

Trailer: All MAXI-LITE ML 15/ML 20 V-SERIES models have a serial number plate located on the lower left corner of the rear panel.



Generator: Label attached to the side of the generator housing.

Engine: ISUZU 4LE1 - Plate attached to the engine right side, near the fuel filter.



SPECIFICATIONS

MAXI-LITE DIMENSIONS

Height lowered:	7'8" (2.34 m)
Height extended:	25'6" (7.8 m)
Length:	10'4" (3.25 m)
Width:	6'4" (1.92 m)
Outrigger width:	12'10" (3.5 m)
Trailer:	Structural steel frame Leaf spring axle
Wheels & tires:	15"

DOMESTIC SHIPPING WEIGHT

Fixtures:	15 lbs. ea. = 60 lbs.
Total weight:	2,580 lbs. (963 kg)

TRAILER

The engine-generator set is housed in a lockable enclosure with the frame fabricated from heavy gauge steel mounted on a two-wheel leaf spring axle. The design enables the trailer to contain the outriggers in a simple compact position. The design includes an adjustable-height reversible hitch that includes a 2" ball and a 3" pintle hook hitch.

MAST

When the mast is in the operating position it is located in the middle of a four-point outrigger system for optimum balance and stability.

The mast consists of seven fabricated steel sections that telescope to 25' 6" (7.8m) and UHMW plastic guide pads to provide smooth operation and reduced friction. The mast sections are extended with either a manual or electric winch, or hydraulic pump. The electric winch design includes limit switches that turn the winch off when the mast reaches full extension or is fully retracted.

STABILIZERS

Four (4) point outrigger design with tower center mounted between two (2) retractable side outriggers, tongue jack and rear jack.

FLOOD LIGHT ASSEMBLY

The flood light assembly consists of four 1250 watt metal halide, four 1000 watt metal halide or four 1000 watt high pressure sodium (HPS) lamp fixtures sealed for all weather use.

SHO 1250 fixture - Metal Halide Lamp

Lumen rating: 150,000 initial lumens

SHO 1000 fixture - Metal Halide Lamp

Lumen rating: 110,000 initial lumens

SHO 1000 fixture - HPS Lamp

Lumen rating: 140,000 initial lumens

ISUZU 4LE1 ENGINE

Isuzu 4LE1, Indirect injection 4 Cylinder

Displacement:	133 cu. in. (2179 cc)
Bore:	85 mm
Stroke:	96 mm
Power output:	34.1 BHP@ 1800 RPM
Power output derating:	3.5% for every 1000 ft altitude (305 m) above sea level
Air Inlet Temp:	1% per 10°F (5.6C) above 77° F (25°C)
Fuel:	Diesel
Oil sump capacity:	Fill to correct level
Starting:	12 volt electric

Low oil pressure, high engine temperature shut-downs and a glow plug cold start assist are standard equipment on the Isuzu 4LE1 diesel engine.

NOTE: Consult the Isuzu Operator's Manual for cold weather starting instructions.

*Horsepower ratings are established in accordance with Society of Automotive Engineers
Small Engine Test Code- J1349 GROSS.*

SPECIFICATIONS

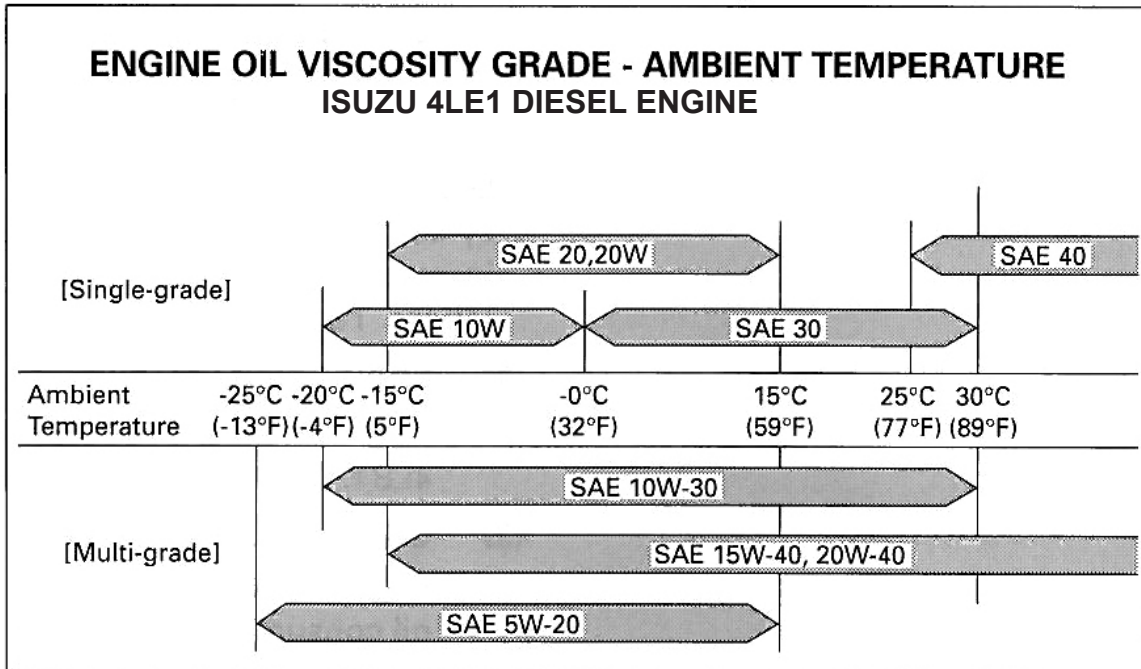
GENERATOR

- 15 kW single phase and 20 kW single and three phase models available
- 60 hz and 50 hz models available (50 hz 15 kW only)

FUEL REQUIREMENTS

Use a clean No. 2 Diesel fuel oil (SAE J313 JUN87) according to ASTM D975. Do not use alternative fuel, because its quality is unknown or it may be inferior in quality. Do not use kerosene, which has a very low cetane rating, and can adversely effect the engine. Refer to the Isuzu Operators Manual for more detailed fuel requirements.

LUBRICATION REQUIREMENTS



CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS



FIG. 1. AC CONTROL PANEL

1. Switch, Circuit Breaker (Lights 1&2 and lights 3&4)



FIG. 2. DC CONTROL PANEL

2. Momentary Contact Switch. Lift up to raise and extend the tower.
Press down to lower the tower.
3. 2 AMP Circuit Breaker (Hydraulic Pump)



FIGURE 3

FIG. 3. ISUZU ENGINE CONTROL PANEL

4. Ignition Switch
5. Glow Plug Indicator
6. Engine Fault Warning Lamps
7. Hour Meter



SAFETY WARNING

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CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

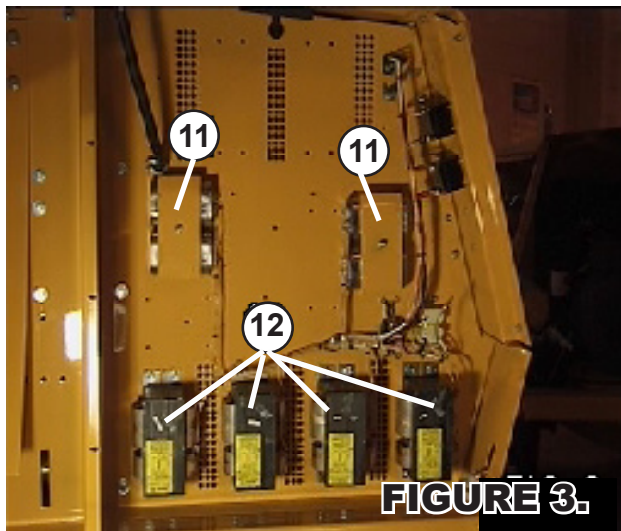
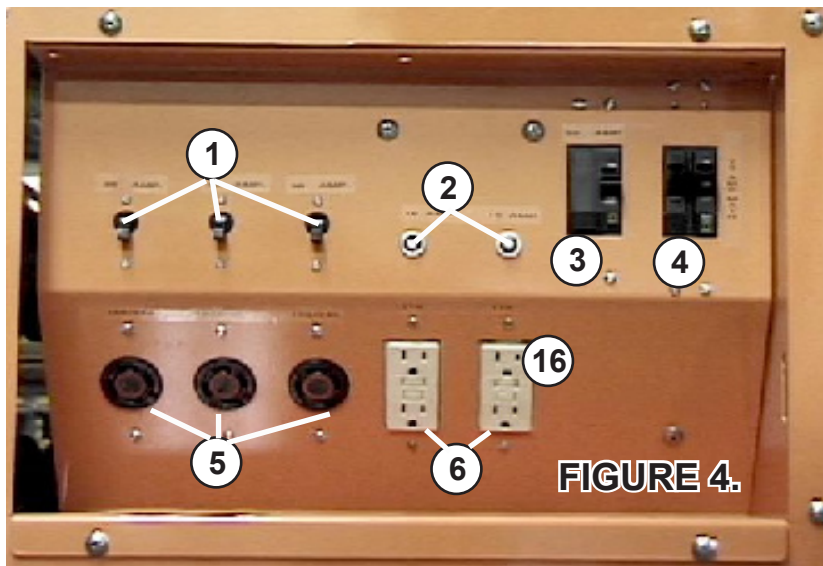


FIG. 3 BALLAST PANEL

- 11. Ballast, Capacitors 1 through 4
- 12. Ballast, Transformers 1 through 4

FIG. 4 CONVENIENCE PANEL

- 1. 30 Amp Breakers
- 2. 15 Amp Breakers
- 3. 50 Amp Breaker
- 4. 70 or 90 Amp Main Breaker
- 5. 120/240 volt Receptacles
- 6. 110/120 Volt Outlet Receptacles (Ground fault)



SAFETY WARNING

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CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

FIG. 5 GROUND ROD (Optional)

16. Ground Rod

Ground Rod should be attached to grounding lug with wire provided and ground rod and then driven fully into the earth for adequate electrical ground as required by local, state or national electrical codes.

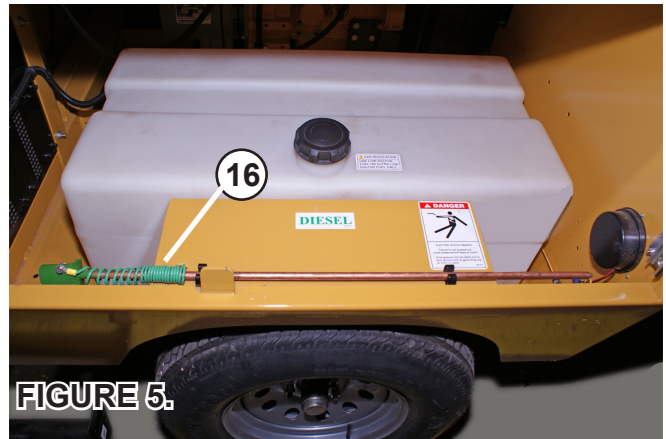


FIG. 6 ENGINE (Left Side)

17. Air Cleaner

18. Fuel Filter

19. Oil Filter

20. Radiator

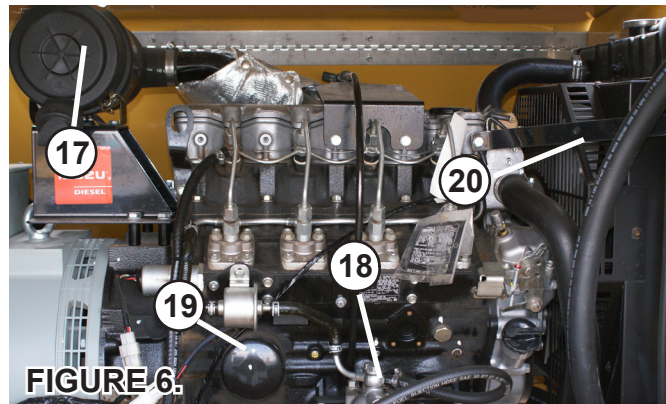
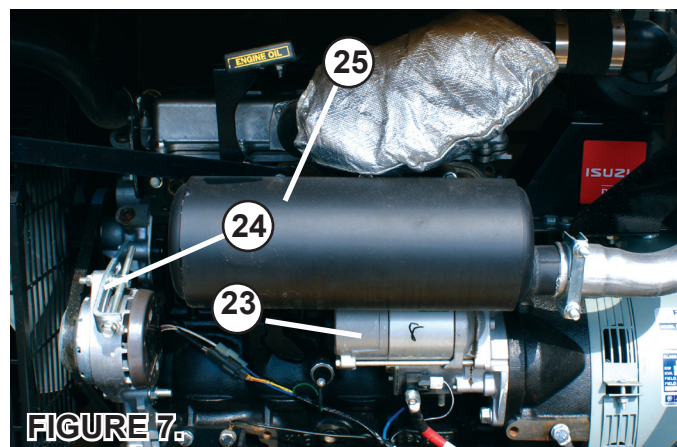


FIG. 7 ENGINE (Right Side)

23. Starter

24. Alternator

25. Muffler



NOTE: Above photos illustrate component locations on the Isuzu 4LE1 diesel engine. Component location on other engine models may vary from the locations indicated above.

CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

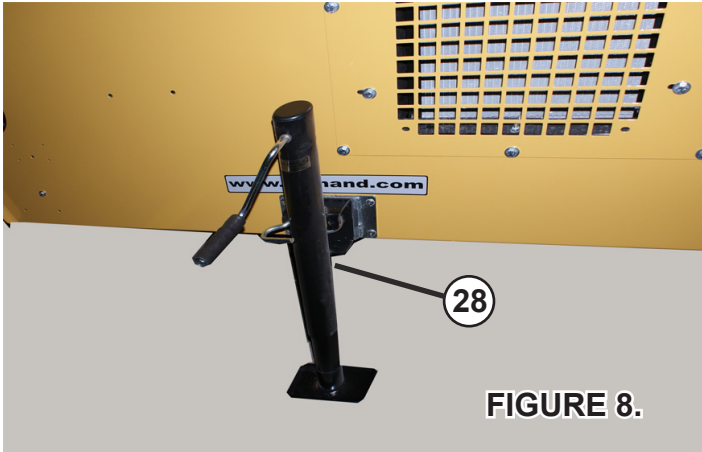


FIG. 8 REAR JACK

28. Rear Jack

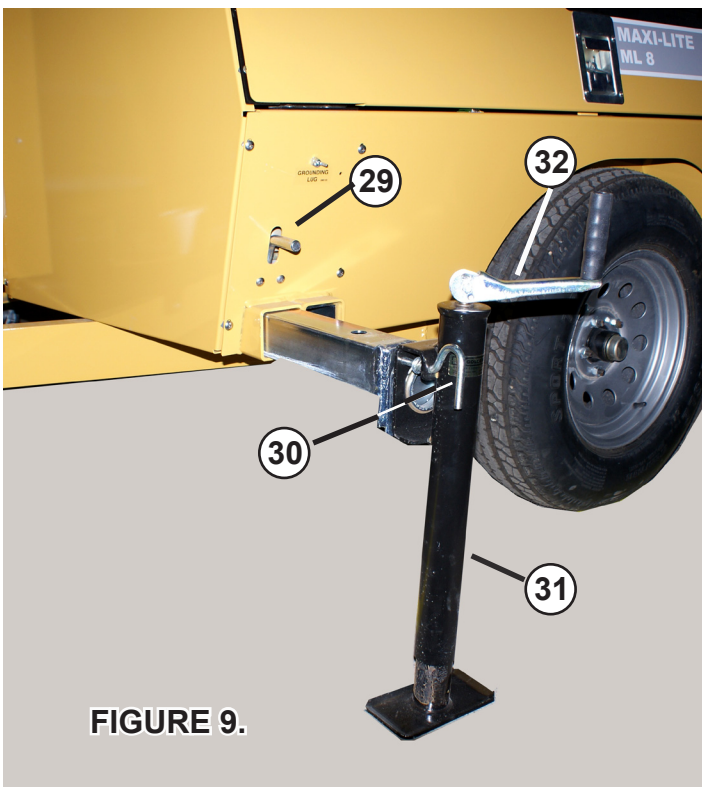


FIG. 9 OUTRIGGER JACK

29. Pin--Retains outrigger in retracted position for towing.

30. Jack Pin--Pull to allow jack to rotate

31. Outrigger Jack

32. Jack Handle--Crank handle to raise and lower foot of jack to level trailer.

CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

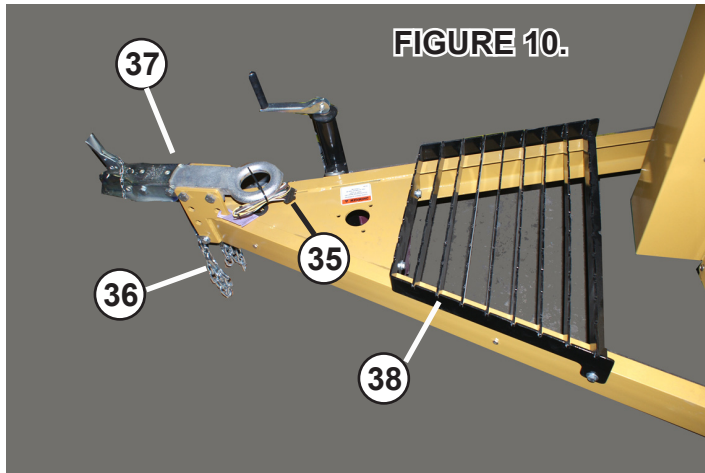


FIG. 10 TONGUE ASSEMBLY

- 35. Taillight Wiring Harness
- 36. Safety Tow Chains
- 37. Reversible Hitch (2" Ball and 3" Pintle Hitch)
- 38. Step Plate--Allows operator to position light fixtures prior to raising tower.

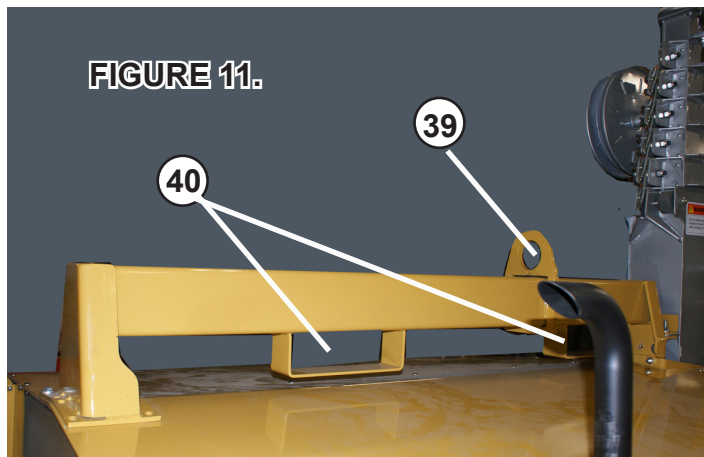


FIG. 11 FORKLIFT POCKETS

- 39. Lifting Eye
- 40. Forklift Pockets

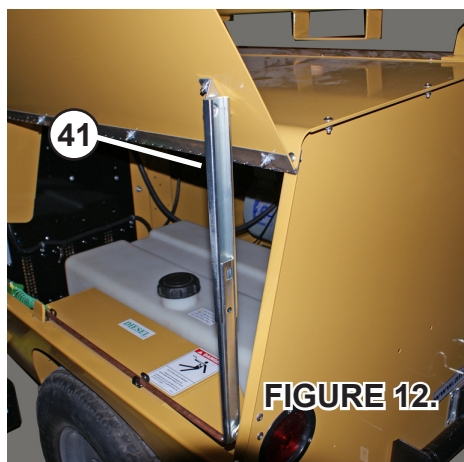


FIG. 12 DOOR PROP

- 41. Door Prop--Locks door panel in open position.

CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

Fig. 13. Hydraulic Bypass Valve

- 41. Bypass Valve
Allows tower to be lowered manually in the event of a failure.

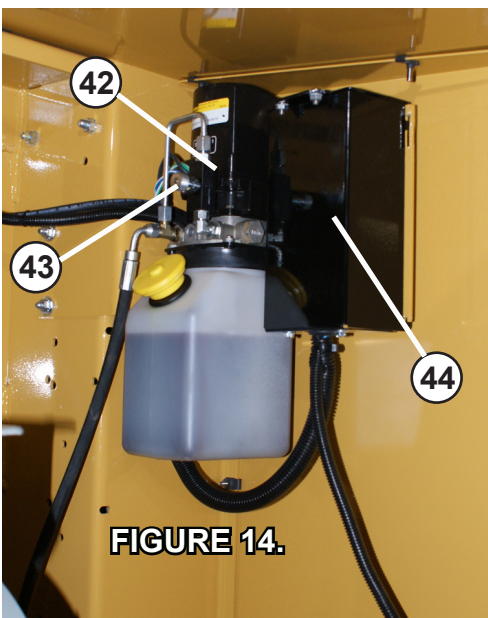
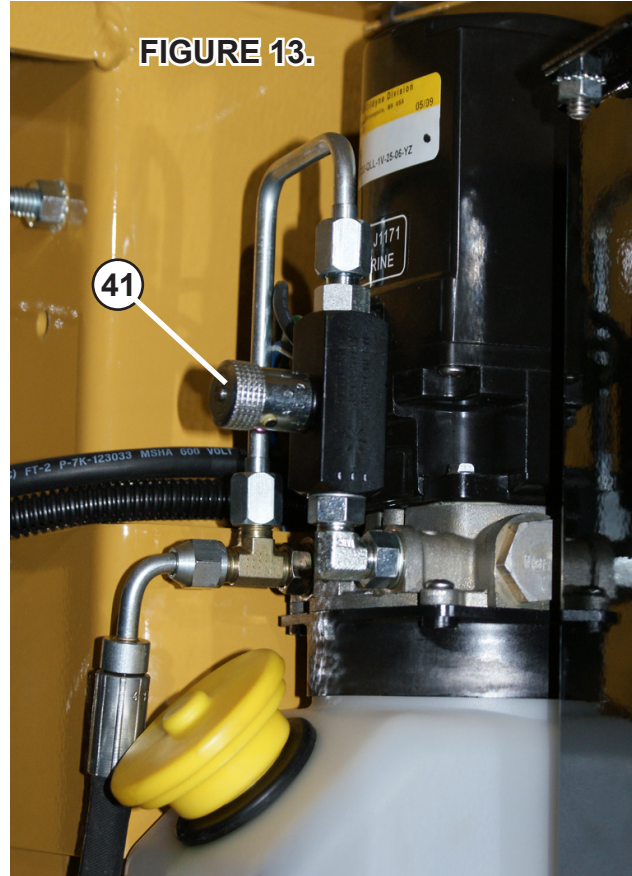


Fig 14. Hydraulic Power Unit Assembly

- 42. Hydraulic Pump
- 43. Bypass Valve
- 44. 12 VDC Enclosure
Houses 125A fuse and 100A solenoid

CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

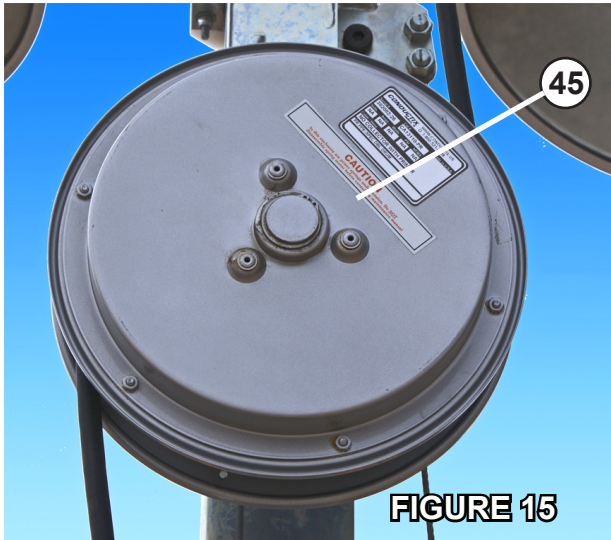


FIG. 15 Cord Reel

45. Cord reel —*Manages the mast power cable and prevents tangling.*

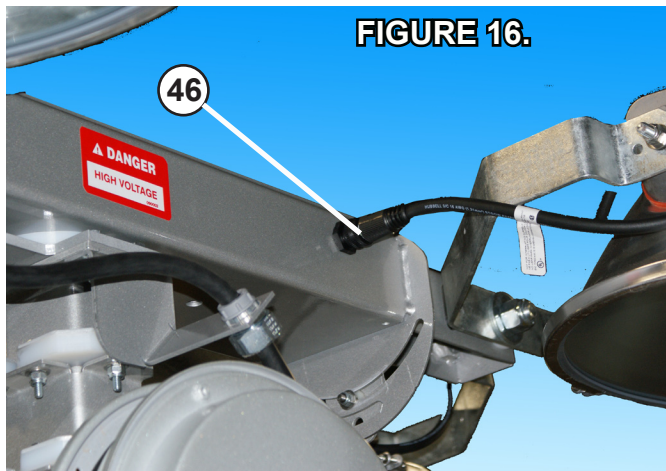


FIG. 16 Light Bar

46. Lamp Connector Lead—*Allows quick connecting/disconnecting of the lamp fixtures*

CONTROLS AND COMPONENTS

NOTE: PHOTOGRAPHS MAY SHOW NON-STANDARD EQUIPMENT AND OPTIONS

FIG. 17 Vertical Tower

- 1. Seven Section Vertical Tower**
- 2. Light Mounting Locations** --Mount lights here for use during operation
- 3. Light connector sockets**—attach light leads to light bar at these female receptacles when provided

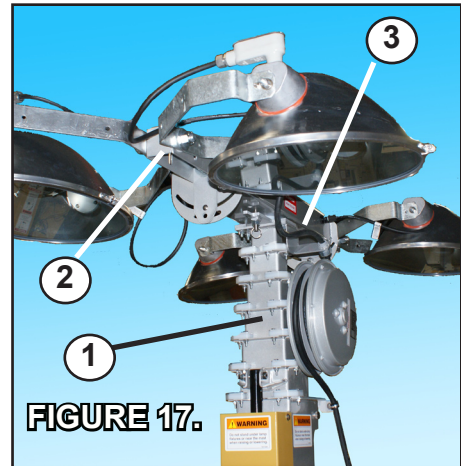
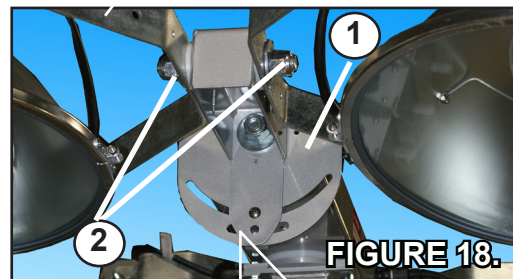


FIG. 18 Light Bar and Mounting Locations

- 1. Light Bar**
- 2. Light mounting locations** —Mount lights here for use during operation



ROUTINE MAINTENANCE

ISUZU 4LE1

INSPECTION, MAINTENANCE, AND LUBRICATION SCHEDULE

Check condition of the steel tower cables and make sure they are properly secured.

LUBRICATION GREASE SPECIFICATIONS:

N.G.L.I. consistency #2, high temperature anti-friction bearing lubricating grease.

Service intervals shown below have been established for operation under normal conditions. Where equipment is operated under severe conditions (very dusty, extreme heat or cold, etc.) affected items should be serviced more frequently.

INTERVAL	ITEM	PROCEDURE
DAILY OR 10 HOUR	Fuel Level	Check and fill as necessary
	Lubricating Oil	Check level and condition
	Oil Pressure Warning Lamp	
50 HOUR	All 10 Hour Items	As above
	Air Cleaner	Service as required. Service requirements may be accelerated
	Engine Oil	Check engine oil and replace if necessary
	Engine Generator Assembly	Check for fuel and lubricating oil leaks
250 Hour	All 50 Hour Items	As above
	Engine Oil System	Drain lubricating oil, flush out system, renew filter element and refill with correct grade and type of oil.
	Coolant	Check level and condition
500 Hour	All 250 Hour items	As above
	Fuel Filter	Replace with new
	Oil Filter Element	Replace with new
750 Hour	Engine Oil System	Drain lubricating oil, flush out system, renew filter element and refill with correct grade and type of oil.
	Fan Belt	Check tension and condition
	Radiator	Clean out fins with water or air
1000 Hour or Yearly	All 750 Hour Items	As above
	Engine Valves	Adjust Clearance
	Cable pulleys on tower	Inspect for wear. Clean and lubricate
	Axle Wheel Bearings	Clean and repack
	Fuel System	Clean sediment from tank, replace filter element

TROUBLESHOOTING



SAFETY WARNING

DANGER!

HIGH VOLTAGE! DO NOT ATTEMPT TO TEST AND REPAIR GENERATOR AND BALLAST ELECTRICAL SYSTEMS UNLESS YOU UNDERSTAND AND ARE QUALIFIED TO WORK ON SUCH SYSTEMS.

DO NOT WEAR JEWELRY WHILE WORKING WITH ELECTRICITY! If the following procedures do not solve your problem, have the circuit tested by a licensed electrician. **DO NOT** attempt to test generator voltage or ballast electrical systems unless you are a qualified electrician. Consult the factory for voltage specifications and test procedures

PROBLEM	POSSIBLE CAUSE
ONE OR MORE LIGHTS DO NOT LIGHT UP.	1. Circuit breakers in the outlet box are not turned on or have tripped.
	2. 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.
	3. The lamp or lamps are burned out or broken.
	4. One or more of the lamps are not screwed in securely.
	5. Plug and socket at light bar not securely pushed together and locked.
	6. The temperature of the ballast is below -20 degrees F. the efficiency of the capacitors in the ballast is not enough to ignite the lamps. For operations where the temperatures of the ballasts falls below -20 degrees F. some means of warming the ballast must be used.
	7. Low electrical system voltage.
	8. A loose connection in the back of the lamp socket in the lamp holder.
	9. A circuit breaker or breakers are defective.
	10. A loose connection on the terminal board.
	11. The engine and generator are not running up to speed (1800 RPM)
	12. A wrong style replacement lamp (requiring a different ballast) has been installed.
	13. Too much power is being drawn from the auxiliary outlets.
	14. Capacitor or transformer have failed.
	15. Corrosion has occurred on the lamp bases.

For engine and generator troubleshooting, see engine and generator manuals or contact your dealer.



**MAXI-LITE
ML 15/ML 20
V SERIES
LIGHT TOWER
PARTS MANUAL**

**ALLMAND BROS. INC
P.O. BOX 888
HOLDREGE, NE 68945**

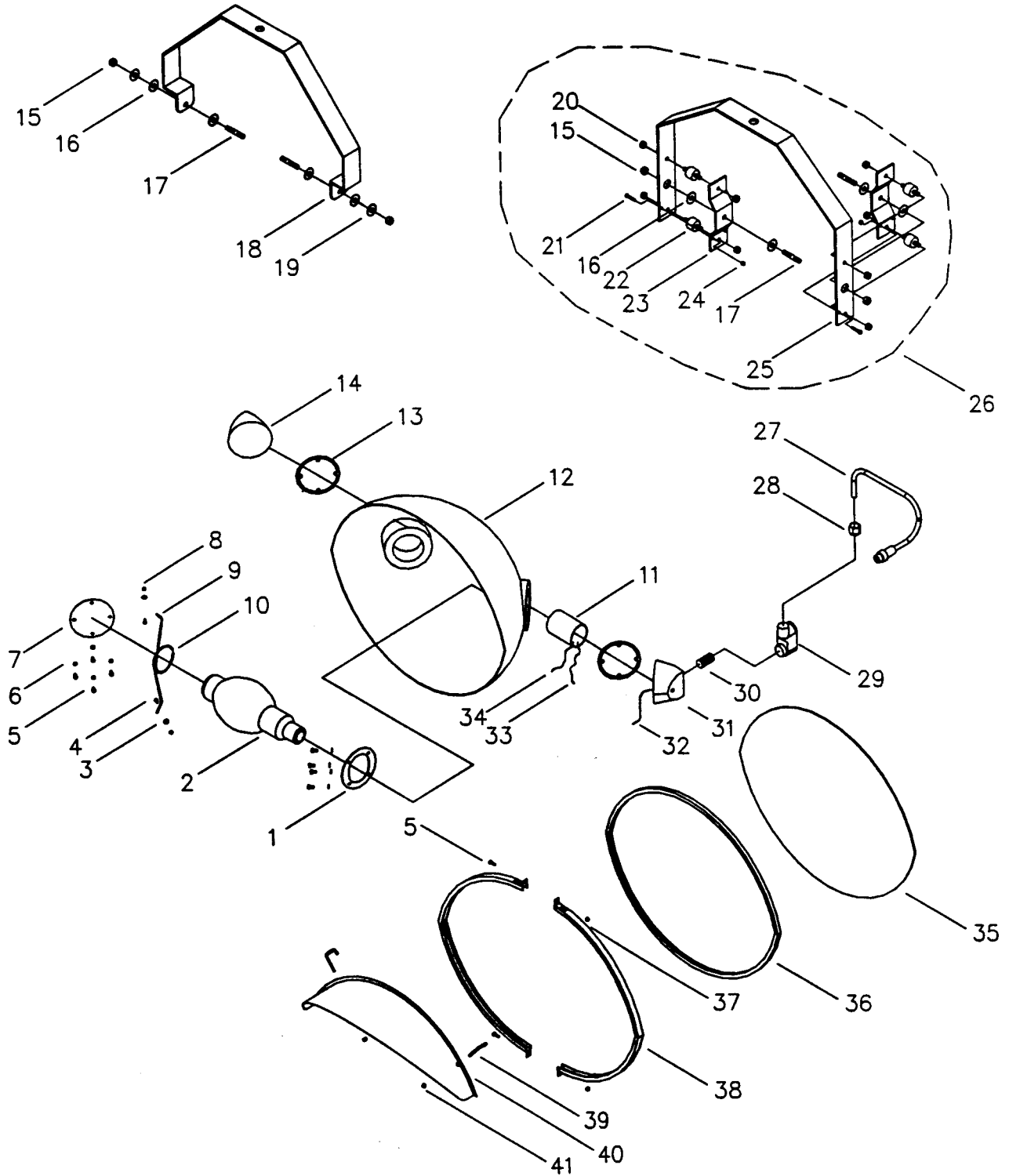
**PHONE: 308/995-4495, 1-800/562-1373
ALLMAND FAX: 308/995-5887
ALLMAND PARTS FAX: 308/995-4883**



ML 15/ML 20 V SERIES

For Parts and Updates visit Allmand on the Web at www.allmand.com

SHO 1000 METALLIC VAPOR LAMP SHO 1000 HIGH PRESSURE SODIUM LAMP



**SHO 1000 METALLIC VAPOR LAMP
SHO 1000 HIGH PRESSURE SODIUM LAMP**

A-1B

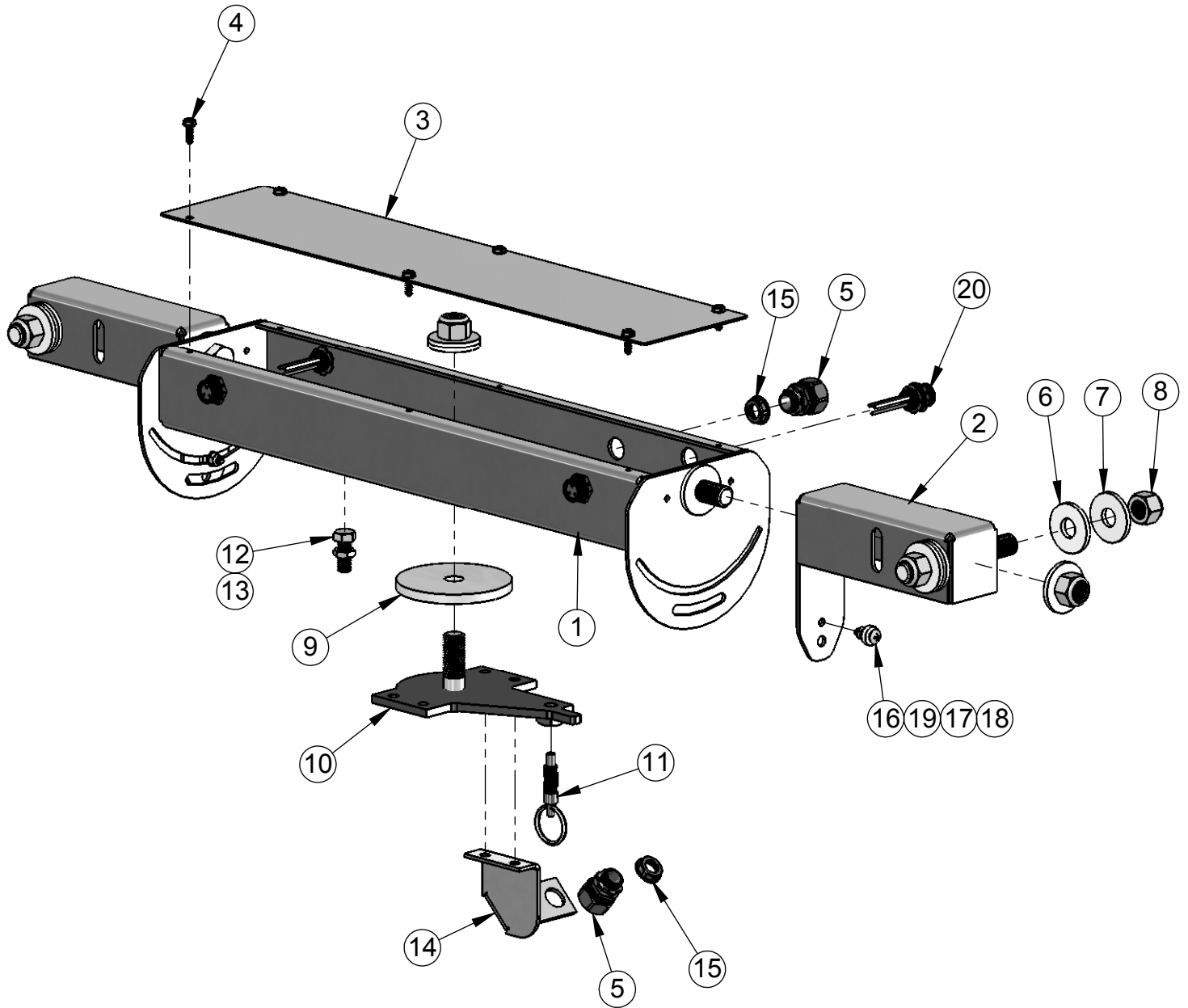
N	O	REQ'D	PART NO	DESCRIPTION
NS			610250	LAMP HOLDER ASS'Y WITH YOKE AND LAMP (SOLID MT.) (REM. FIXTURES)
NS			610265	LAMP HOLDER ASS'Y WITH YOKE AND LAMP (SOLID MT.) (HPS)
NS			610255	LAMP HOLDER ASSEMBLY W/YOKE, LAMP AND CUSHIONS (CUSHION MT.)
NS			610253	LAMP HOLDER ASSEMBLY W/YOKE, LAMP AND CUSHIONS (CUSHION MT.) (HPS)
NS			650144	LAMP HOLDER ASSEMBLY WITH YOKE AND LAMP
NS			610263	LAMP HOLDER ASSEMBLY WITH NO YOKE, NO LAMP,s HPS
1		1	610208	ALUMINUM RING
2		1	610211	LAMP BT-37
2A		1	610218	LAMP 1000W SHO ED37 (HPS)
3		2	**	#8 WASHER (STAINLESS STEEL)
4		2	**	#8-32 NC X 1/2 HEX HEAD BOLT (STAINLESS STEEL)
5		8	041028	#10-24 NC X 1/2 HEX HEAD BOLT (STAINLESS STEEL)15
6		8	043017	#10 INTERNAL TOOTH WASHER
7		1	610207	ALUMINUM PLATE
8		2	044013	#8 -32 NC NYLON INSERT NUT (STAINLESS STEEL)
9		1	610209	LAMP TIP SUPPORT
NS		1	650250	LAMP TIP SUPPORT (HIGH PRESSURE SODIUM)
10		1	610210	LAMP TIP SUPPORT TUBE
11		1	610212	CERAMIC SOCKET
12		1	610201	REFLECTOR
13		2	610213	END HOUSING GASKET
14		1	610206	RH SOLID END CASTING
15		2	044037	3/8 - 24 NF NYLON INSERT NUT
16		4	047019	.75 OD x.385 ID x.20 NYLON WASHER
17		2	045142	3/8 - 24 NF X 3/8 - 16 NC X 2" STUD
18		1	680493	SOLID MOUNT YOKE
19		2	047016	3/8 SAE WASHER
20			044031	5/16-18 KEPS NUT
21		2	041035	#10 - 24 NC X 1 1/4 ROUND HEAD BOLT
22		4	610260	RUBBER SHOCK MOUNT SHO 1000
23		2	610235	SHO CUSHION MOUNT PLATE
24		2	044018	10-24 NYLON LOCK NUT
25		1	610234	SHO 1000 CUSHION MOUNT YOKE
26			610236	SHO 1000 CUSHION MOUNT YOKE ASSEMBLY
27			310434	16/3 PORTABLE CORD 66
28		1	510007	1/2-CORD GRIP
29		1	610214	1/2" ENTRANCE ELBOW
30		1	610215	1/2 CONDUIT NIPPLE
31		1	610205	LH SOCKET END CASTING
32		1	**	GREEN HEAT TEMP WIRE
33		1	**	BLACK HEAT TEMP WIRE
34		1	**	WHITE HEAT TEMP WIRE
35		1	610203	LENS
36		1	610217	LENS GASKET (SILICONE)
37		2	044019	#10-24 NYLON INSERT NUT (STAINLESS)
38		1	610202	LENS CHANNEL SET
39		2	045070	#10-24 NC SQ BD HOOK BOLT (W/VISOR)
40		1	610017	SHO 1000 LIGHT VISOR (OPTIONAL)
41		2	044016	#10-24 NC KEPS NUT

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:
01-White 02-Gloss Black 03-Gray
04-Allmand Yellow 05-Orange 06-Allmand Gold
09-Flat Black 10-High temp Black 11-Red

MAXI LITE V SERIES HYDRAULIC

LIGHT BAR

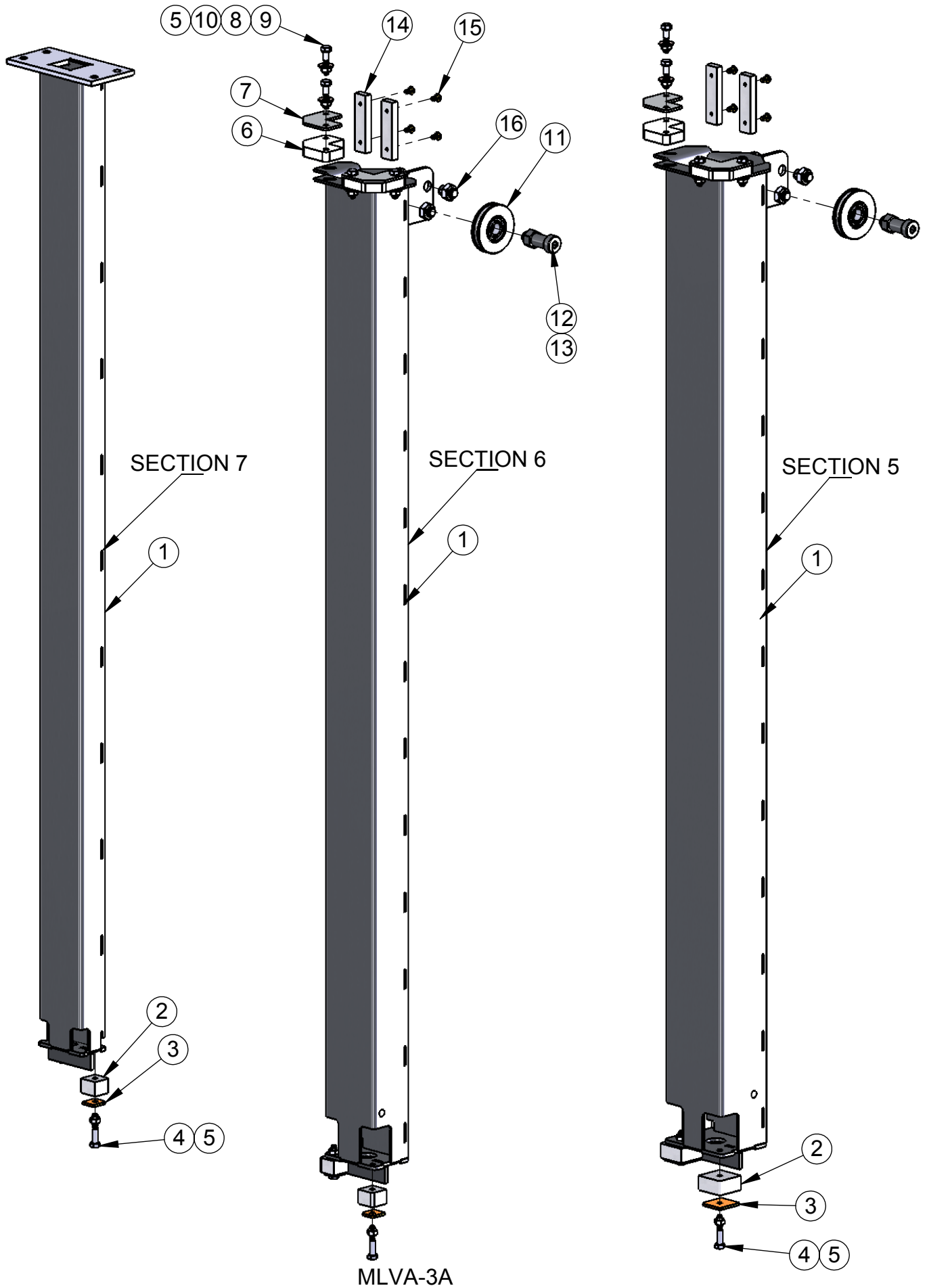


MAXI LITE V SERIES HYDRAULIC LIGHT BAR

NO.	QTY.	PART NO.	DESCRIPTION
1	1	101930P	LIGHT BAR
2	2	101931P	LAMP MOUNT
3	1	101929P	COVER
4	6	041070	1/4-20 X 3/4 SMSHH TP F
5	2	330031	1/2 CORD GRIP
6	7	650550	.785 X 2 HDPE WASHER
7	7	047035	3/4 FLAT WASHER PLTD
8	7	044121	3/4-10 NYLOCK SS
9	1	100147	UHMW BEARING
10	1	100143P	ROTATION MOUNT
11	1	100148	LATCH ASSY
12	1	046180	1/2-13 X 1 1/4 HHCS GR 5
13	1	100643	1/2-13 NYLOCK
14	1	100154P	TOWER CORD BRACKET
15	2	022415	BUSHING THREADED
16	2	041080	1/4 - 20 X 1 THCS
17	2	047070	1/4 FW SS
18	2	044023	1/4-20 NYLOCK NUT
19	2	047019	3/4 OD X .385 ID NYLON BUSHING
20	4	310414	FEMALE QD CONNECTOR

LEGEND:
 NS=NOT SHOWN
 WHEN ORDERING, SPECIFY THE
 COLOR WANTED ON PARTS
 CONTAINING THE LETTER "P"

MAXI LITE V SERIES HYDRAULIC HYDRAULIC TOWER SECTIONS 7-6-5



MAXI LITE V SERIES HYDRAULIC

SECTION 7

NO.	QTY.	PART NO.	DESCRIPTION
1	1	100085P	SEC 7
2	2	100178	UHMW 3/4 X 1" SQ WEAR BLK
3	2	100179P	1" WEAR BLK CVR
4	2	046025	1/4-20 X 1 1/2" HEX BOLT
5	2	044023	1/4-20 NYLOCK NUT

SECTION 6

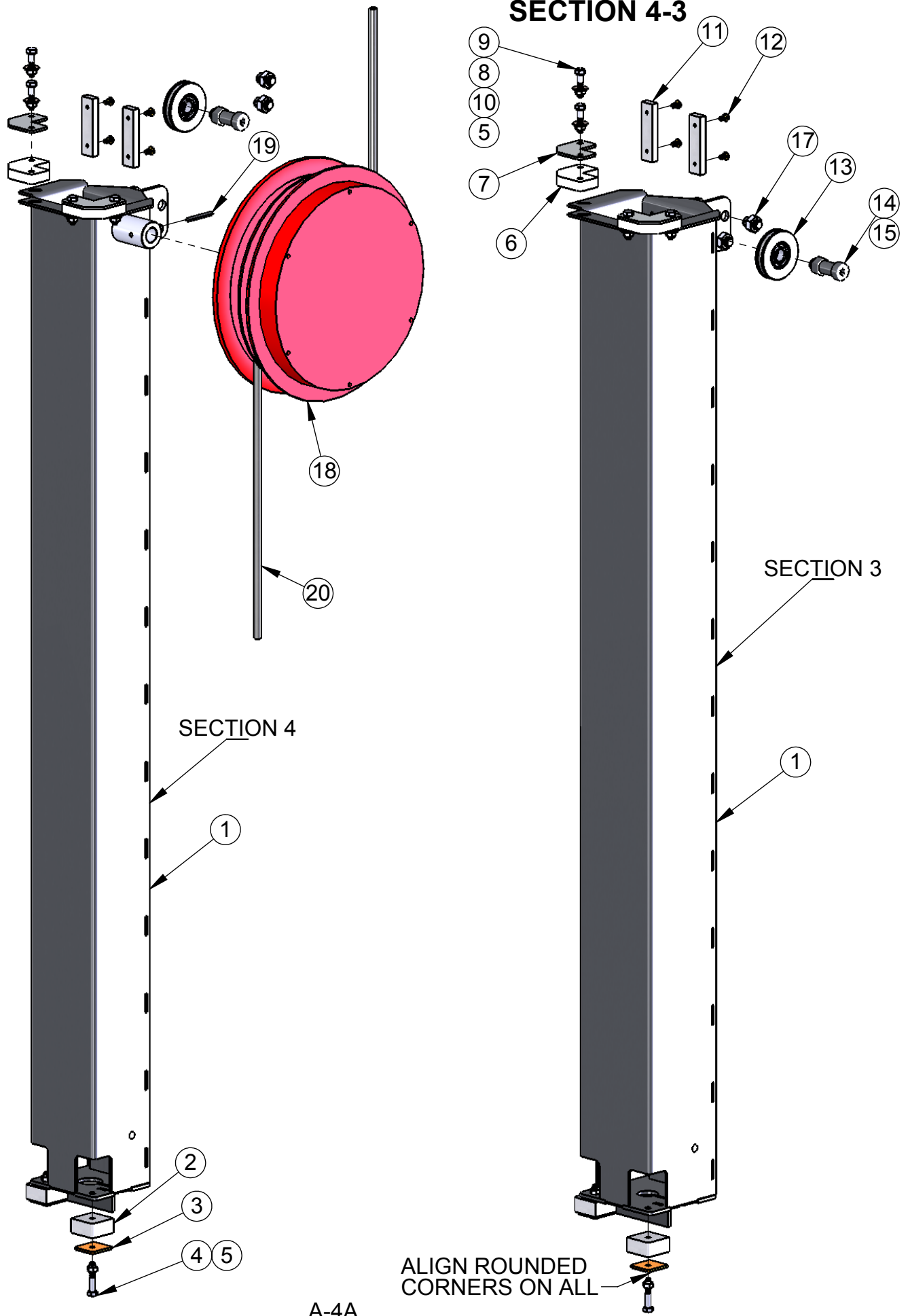
NO.	QTY.	PART NO.	DESCRIPTION
1	1	100080P	SEC 6
2	2	100178	UHMW 3/4 X 1" SQ WEAR BLK
3	2	100179P	1" WEAR BLK CVR
4	2	046025	1/4-20 X 1 1/2" HEX BOLT
5	6	044023	1/4-20 NYLOCK NUT
6	2	100088	BLOCK, CORNER FRICTION
7	2	100089P	COVER, CORNER BLOCK
8	4	043060	3/8 INT STAR WASHER
9	4	046020	1/4-20 X 1 1/4 GR5 HEX BOLT
10	4	047005	1/4 FLAT WASHER
11	1	100160	2 1/2 PULLEY
12	1	100642	5/8 X 1 SHOULDER BOLT
13	1	044048	NUT NYLOCK 1/2-13 HEX PL
14	2	100062	SPACER, 3/8" UHMW
15	4	041023	#10 X 3/8 PLS
16	2	100071	3/16 CABLE BOLT
17	2	044096	1/2-20 HEX NUT PL

SECTION 5

NO.	QTY.	PART NO.	DESCRIPTION
1	1	100075P	SEC 5
2	2	100094	UHMW 1 1/2" WEAR BLK
3	2	100095P	1 1/2 WEAR BLOCK COVER
4	2	046025	1/4-20 X 1 1/2" HEX BOLT
5	6	044023	1/4-20 NYLOCK NUT
6	2	100088	CORNER FRICTION BLOCK
7	2	100089P	CORNER BLOCK COVER
8	4	043060	3/8 INT STAR WASHER
9	4	046020	1/4-20 X 1 1/4 GR5 HEX BOLT
10	4	047005	1/4 FLAT WASHER
11	1	100160	2 1/2 PULLEY
12	1	100642	5/8 X 1 SHOULDER BOLT
13	1	044048	NUT NYLOCK 1/2-13 HEX PL
14	2	100062	3/8 UHMW SPACER
15	4	041023	#10 X 3/8 PLS
16	2	100071	3/16 CABLE BOLT
17	2	044096	1/2-20 HEX NUT PL

LEGEND:
NS=NOT SHOWN
WHEN ORDERING, SPECIFY THE
COLOR WANTED ON PARTS
CONTAINING THE LETTER "P"

MAXI LITE V SERIES HYDRAULIC



MAXI LITE V SERIES HYDRAULIC

SECTION 4

NO.	QTY.	PART NO.	DESCRIPTION
1	1	100070P	SECTION 4
2	2	100094	UHMW 1 1/2" WEAR BLK
3	2	100095P	1 1/2 WEAR BLOCK COVER
4	2	046025	1/4-20 X 1 1/2" HEX BOLT
5	6	044023	1/4-20 NYLOCK NUT
6	2	100088	CORNER FRICTION BLOCK
7	2	100089P	CORNER BLOCK COVER
8	4	043060	3/8 INT STAR WASHER
9	4	046020	1/4-20 X 1 1/4 GR5 HEX BOLT
10	4	047005	1/4 FLAT WASHER
11	2	100062	3/8 UHMW SPACER
12	4	041023	#10 X 3/8 PLS
13	1	100160	2 1/2 PULLEY
14	1	100642	5/8 X 1 SHOULDER BOLT
15	1	044048	NUT NYLOCK 1/2-13 HEX PL
16	2	100071	3/16 CABLE BOLT
17	2	044096	1/2-20 HEX NUT PL
18	1	320410	CORD REEL
19	1	320453	3/16 X 1 3/4" ROLL PIN
20	1	100687	VERTICAL TOWER CORD 16/8 X 310"

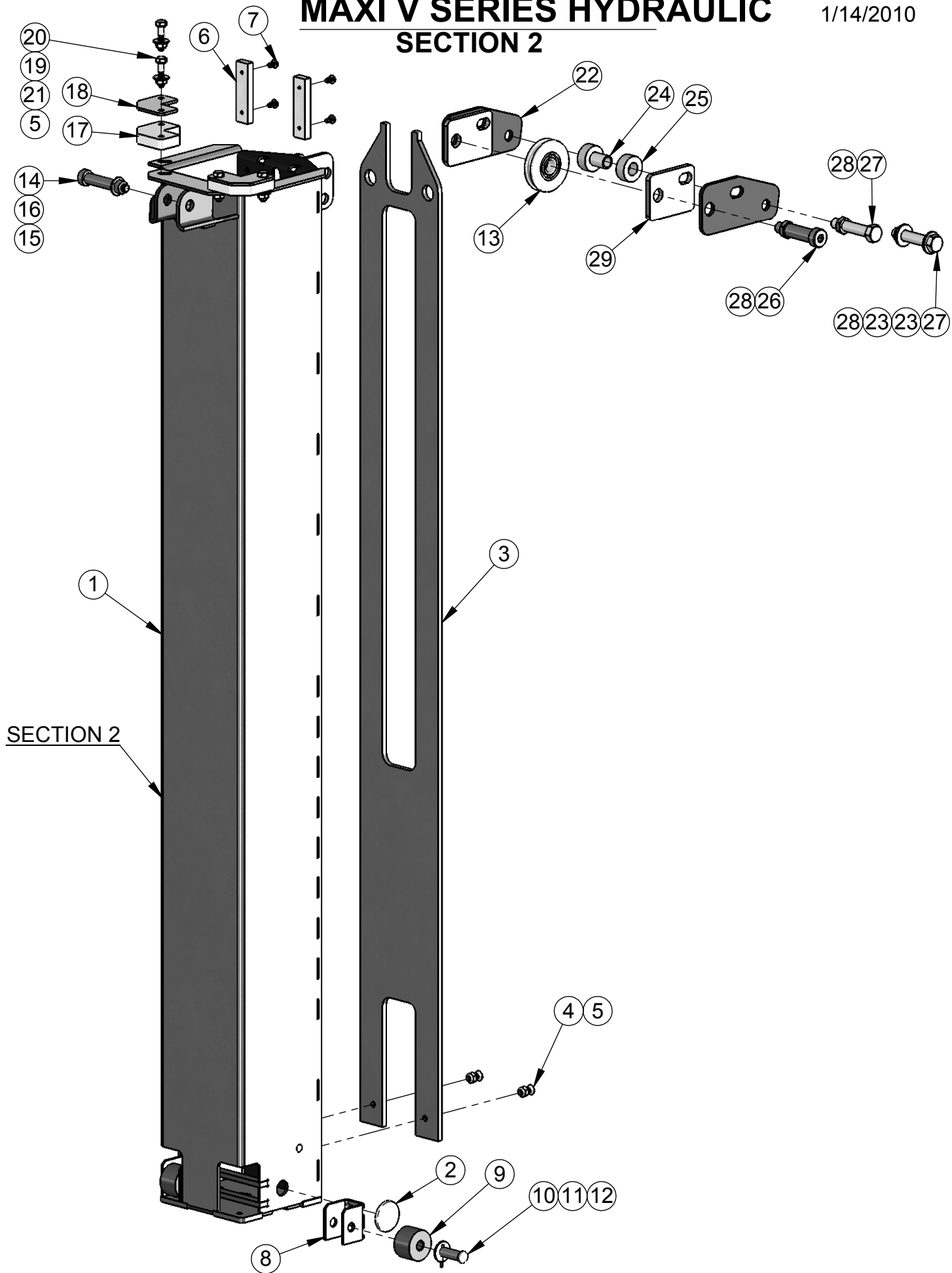
SECTION 3

NO.	QTY.	PART NO.	DESCRIPTION
1	1	100060P	WELD, SEC 3
2	2	100094	UHMW 1 1/2" WEAR BLK
3	2	100095P	1 1/2 WEAR BLOCK COVER
4	2	046025	1/4-20 X 1 1/2" HEX BOLT
5	6	044023	1/4-20 NYLOCK NUT
6	2	100088	CORNER FRICTION BLOCK
7	2	100089P	CORNER BLOCK COVER
8	4	043060	3/8 INT STAR WASHER
9	4	046020	1/4-20 X 1 1/4 GR5 HEX BOLT
10	4	047005	1/4 FLAT WASHER
11	2	100062	3/8 UHMW SPACER
12	4	041023	#10 X 3/8 PLS
13	1	100160	2 1/2 PULLEY
14	1	100642	5/8 X 1 SHOULDER BOLT
15	1	044048	NUT NYLOCK 1/2-13 HEX PL
16	2	100071	3/16 CABLE BOLT
17	2	044096	1/2-20 HEX NUT PL

LEGEND:
NS=NOT SHOWN
WHEN ORDERING, SPECIFY THE
COLOR WANTED ON PARTS
CONTAINING THE LETTER "P"

MAXI V SERIES HYDRAULIC SECTION 2

1/14/2010



MAXI V SERIES HYDRAULIC

SECTION 2

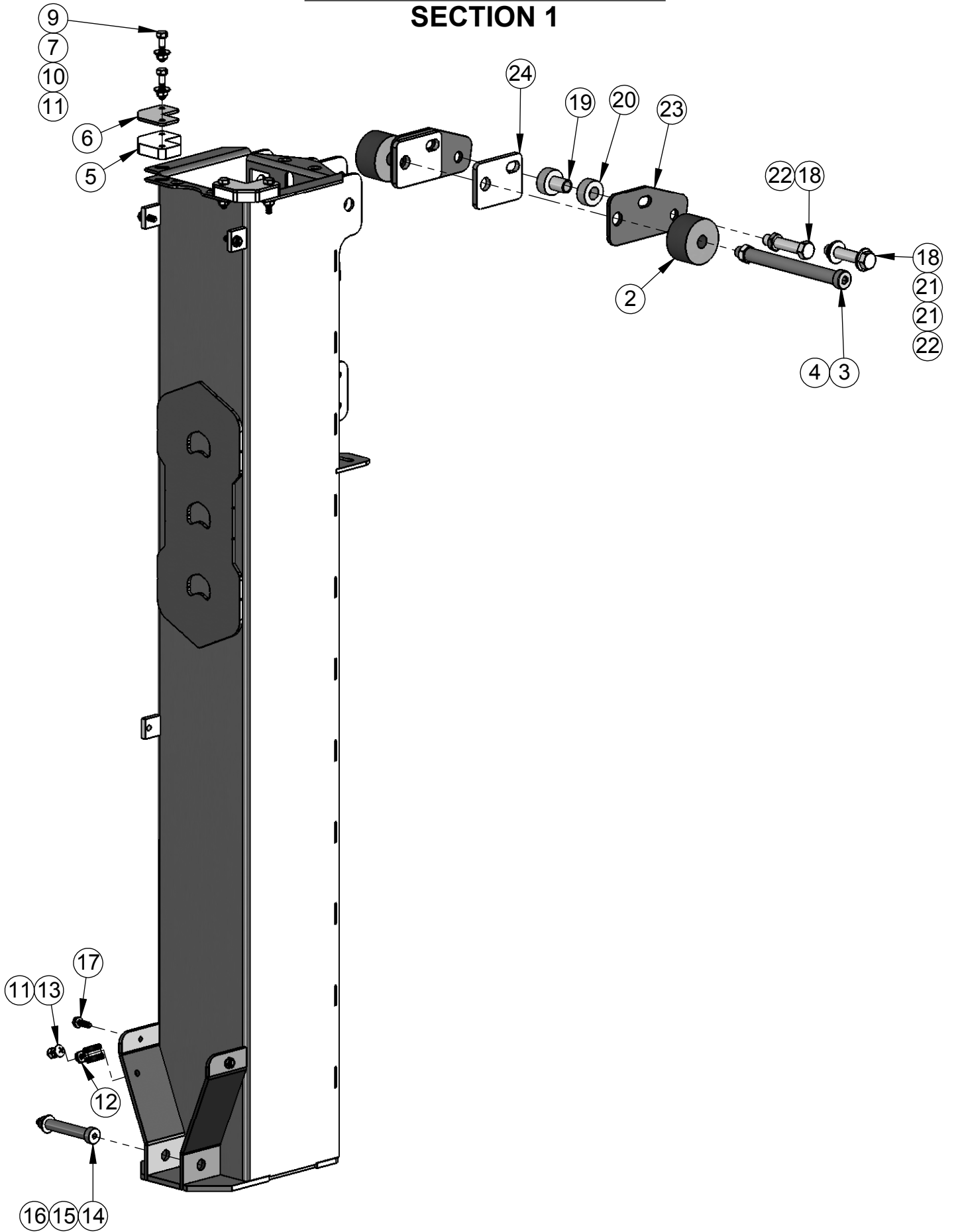
1/14/2010

NO.	QTY.	PART NO.	DESCRIPTION
1	1	101035P	SECTION 2
2	2	101626	FRICTION PLUG
3	1	100204P	SEC 2 ROLLER PLATE
4	2	041047	1/4-20 X 3/4 PH CSK
5	6	044023	1/4-20 NYLOCK NUT
6	2	100062	3/8 UHMW SPACER
7	4	041023	#10 X 3/8 PLS
8	2	101374P	BEARING CAGE
9	2	101380	COMPOSITE ROLLER
10	2	101377	CLEVIS PIN 7/16 X 1 1/2
11	2	047015	3/8 FLAT WASHER
12	2	045044	COTTER PIN
13	1	100160	2 1/2 PULLEY
14	1	101378	1/2 X 2 SH BOLT
15	1	044038	3/8-16 NYLOCK NUT PL
16	1	047010	5/16 FLAT WASHER
17	2	100088	CORNER FRICTION BLOCK
18	2	100089P	CORNER BLOCK COVER
19	4	043060	3/8 INT STAR WASHER
20	4	046020	1/4-20 X 1 1/4 GR5 HEX BOLT
21	4	047005	1/4 FLAT WASHER
22	2	102270P	CABLE BRACKET
23	2	047025	1/2" FLAT WASHER
24	1	102273	LONG SPACER
25	2	102271	PLASTIC SPACER
26	1	102365	5/8 X 1 SHOULDER BOLT
27	2	046205	1/2-13 X 2 1/2 HEX BOLT GR5 PL
28	3	100643	1/2-13 NYLOCK
29	2	102269P	SPACER BRACKET

LEGEND:
 NS=NOT SHOWN
 WHEN ORDERING, SPECIFY THE
 COLOR WANTED ON PARTS
 CONTAINING THE LETTER "P"

MAXI V SERIES HYDRAULIC SECTION 1

1/14/2010



MAXI V SERIES HYDRAULIC

SECTION 1

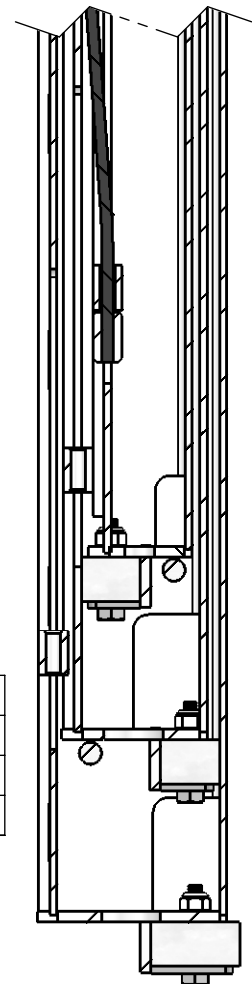
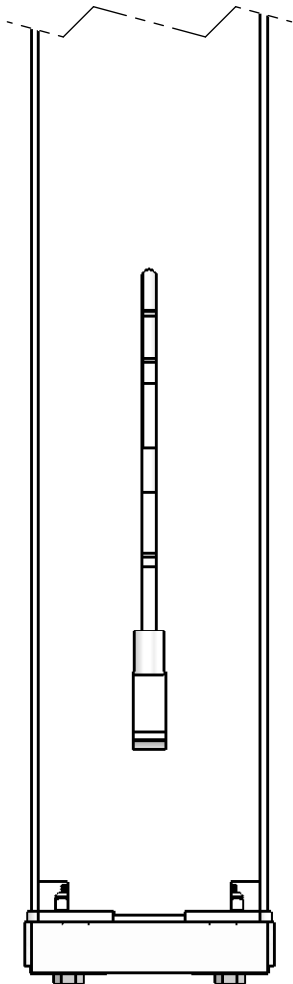
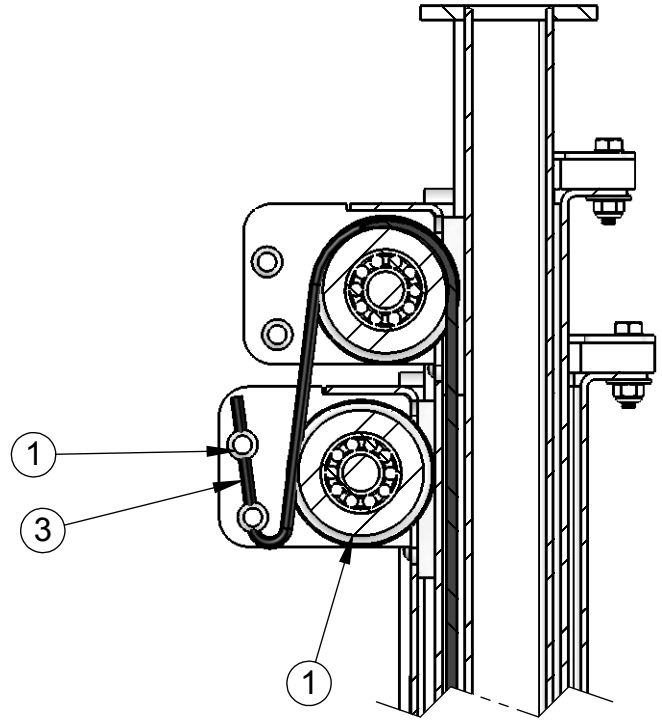
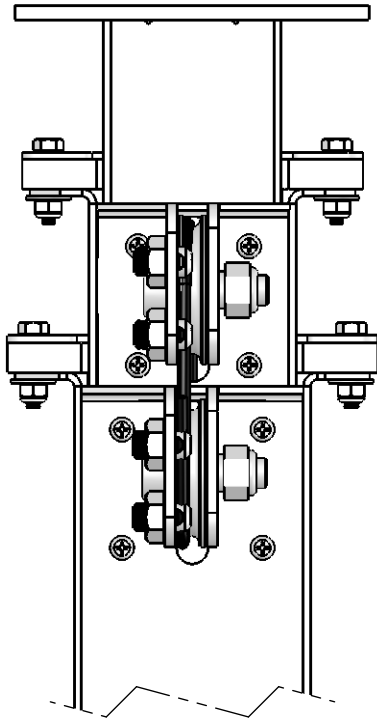
1/14/2010

NO.	QTY.	PART NO.	DESCRIPTION
1	1	101034P	SECTION 1
2	2	100203	ROLLER
3	1	100202	5/8 X 6 SS SH BOLT
4	1	044096	1/2-20 HEX NUT PL
5	2	100088	CORNER FRICTION BLOCK
6	2	100089P	CORNER BLOCK COVER
7	4	043060	3/8 INT STAR WASHER
8	1	046025	1/4-20 X 1 1/2 HEX BOLT
9	3	046020	1/4-20 X 1 1/4 GR5 HEX BOLT
10	4	047005	1/4 FLAT WASHER
11	5	044023	1/4-20 NYLOCK NUT
12	1	310212	#10 CUSHION CLAMP
13	1	041050	1/4-20 X 3/4 TRUSS BOLT
14	1	101379	1/2 X 2.75 SH BOLT
15	1	047010	5/16 FLAT WASHER
16	1	044038	3/8-16 NYLOCK NUT PL
17	4	041070	1/4-20 X 3/4 SMSHH TP F
18	2	046205	1/2-13 X 2 1/2 HEX BOLT GR5 PL
19	1	102273	LONG SPACER
20	2	102271	PLASTIC SPACER
21	2	047025	1/2" FLAT WASHER
22	2	100643	1/2-13 NYLOCK
23	2	102270P	CABLE BRACKET
24	2	102269P	SPACER BRACKET

LEGEND:
 NS=NOT SHOWN
 WHEN ORDERING, SPECIFY THE
 COLOR WANTED ON PARTS
 CONTAINING THE LETTER "P"

MAXI LITE V SERIES HYDRAULIC

CABLE ROUTING

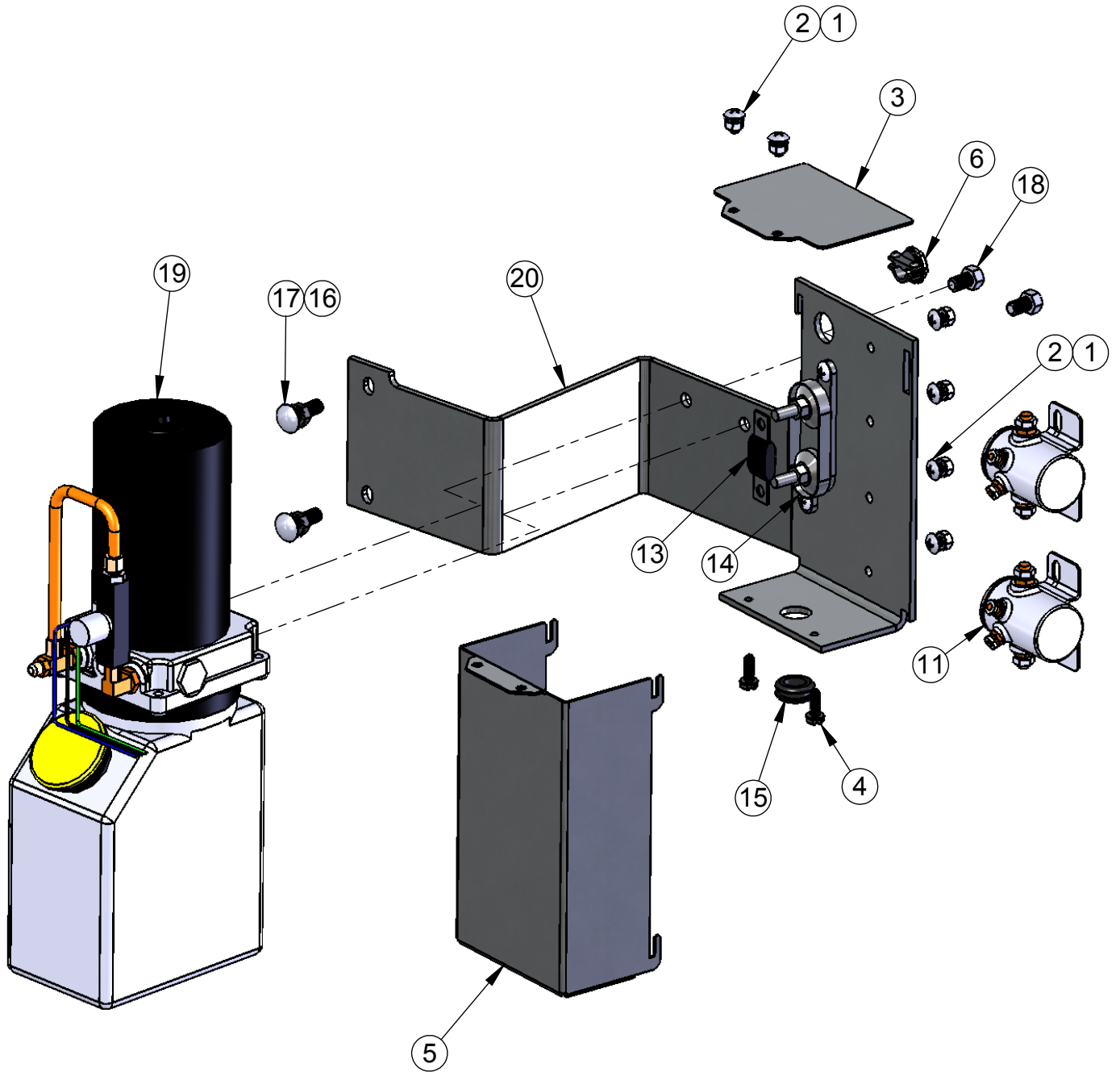


NO.	QTY.	PART NO.	DESCRIPTION
1	1	101870	SECTION 5
2	1	101871	SECTION 6
3	1	100149	3/16 X 60 CABLE

MAXI LITE V SERIES HYDRAULIC

MAXI LITE V SERIES HYDRAULIC

HYDRAULIC PUMP (OLD STYLE)



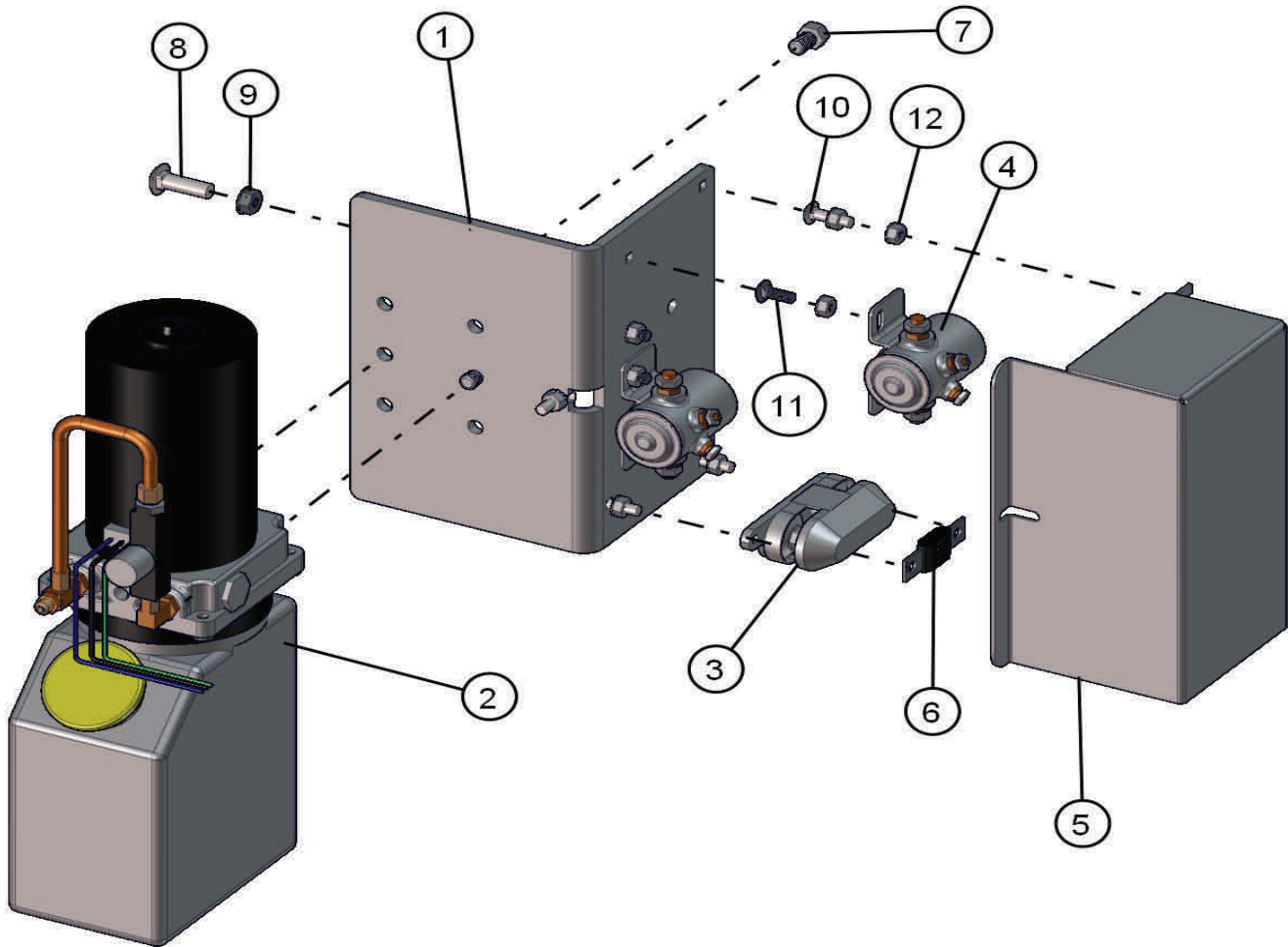
MAXI LITE V SERIES HYDRAULIC

HYDRAULIC PUMP (OLD STYLE)

NO.	QTY.	PART NO.	DESCRIPTION
1	8	044021	1/4-20 KEPS NUT
2	6	041078	1/4-20 X 1/2 PH TRUSS SCREW
3	1	101914	LID
4	2	041070	1/4-20 x 3/4 SMSHH TP F
5	1	100250	RELAY / FUSE COVER
6	1	022020	2 SCREW CLAMP, 3/8"
7	2	100236	12 VDC RELAY
8	2	041050	1/4-20 X 3/4 TRUSS BOLT
9	1	100234	125A FUSE LINK
10	1	100235	FUSE HOLDER
11	1	711028	7/8 RUBBER GROMMET
12	2	044036	3/8-16 KEPS NUT
13	2	100670	3/8-16 X 1 1/4 CARR BOLT
14	2	101384	3/8 - 16 x 5/8" GRADE 5 HEX BOLT
15	1	101383	HYD POWER UNIT
16	1	100248P	PUMP MOUNT BRACKET

HYDRAULIC PUMP MAXI LITE V SERIES ML 15-20kW

5/19/11

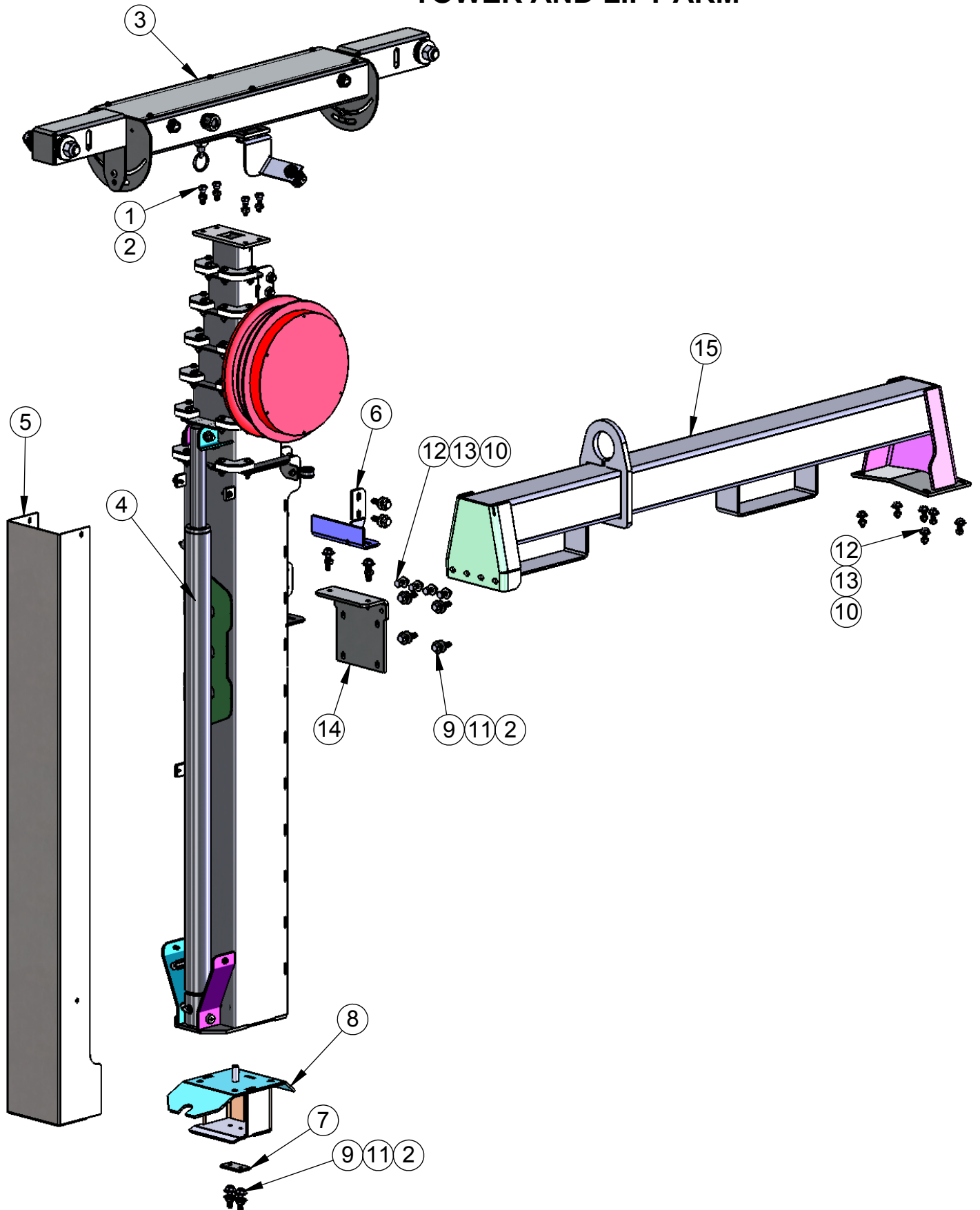


NO	QTY	PARTNO	DESCRIPTION
1	1	101839P	BRACKET
2	1	101383	HYDRAULIC POWER UNIT
3	1	100235	FUSE HOLDER
4	2	100236	12 VDC RELAY
5	1	102191P	COVER
6	1	100234	125A FUSE LINK
7	2	101384	3/8-16 X 5/8 HHCS PL
8	2	100670	3/8-16 X 1 1/4 CARRIAGE BOLT
9	2	044036	3/8-16 KEPS HEX NUT
10	4	100342	1/4-20 X 1" CARRIAGE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

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

MAXI LITE V SERIES HYDRAULIC

TOWER AND LIFT ARM



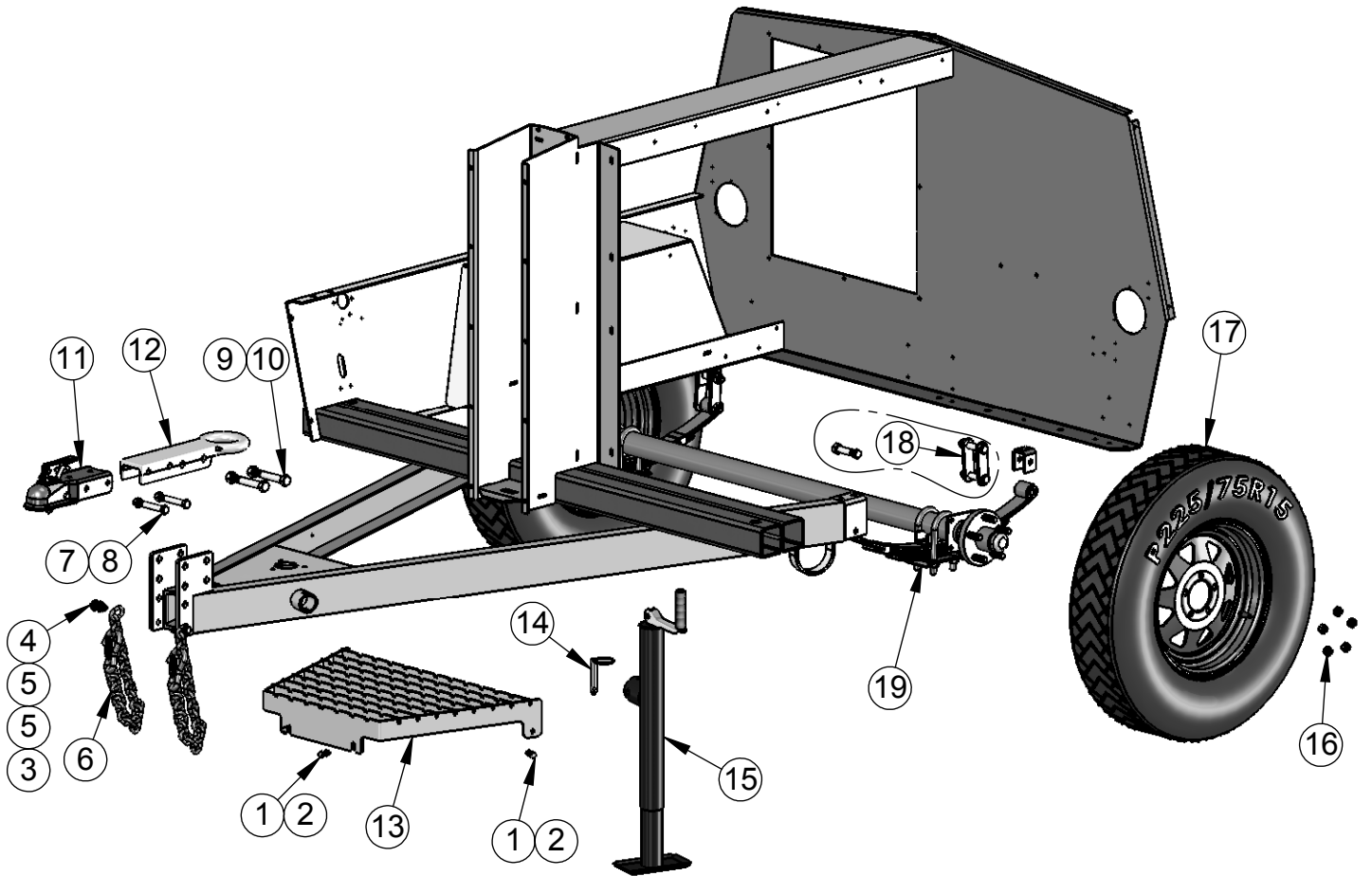
LEGEND:
NS=NOT SHOWN
WHEN ORDERING, SPECIFY THE
COLOR WANTED ON PARTS
CONTAINING THE LETTER "P"

MAXI LITE V SERIES HYDRAULIC TOWER AND LIFT ARM

NO.	QTY.	PART NO.	DESCRIPTION
1	4	046115	3/8-16 X 1 1/4 HHCS
2	10	044036	3/8-16 KEPS NUT
3	1	101922	LIGHT BAR
4	1	102086	HYDRAULIC TOWER
5	1	100245P	HYDRAULIC CYLINDER COVER
6	1	101410P	TOWER MOUNT
7	1	101629P	COVER PLATE
8	1	101406P	TOWER PLATFORM
9	10	046120	3/8-16 X 1 1/2 HEX BOLT
10	14	044030	5/16-18 HEX NUT
11	18	047015	3/8 FLAT WASHER
12	10	046050	BOLT CS 5/16-18 X 1 HEX GR5 PL
13	10	047010	5/16 FLAT WASHER
14	1	100244P	ANGLE MOUNTING BRKT
15	1	101917P	LIFT BAR

LEGEND:
 NS=NOT SHOWN
 WHEN ORDERING, SPECIFY THE
 COLOR WANTED ON PARTS
 CONTAINING THE LETTER "P"

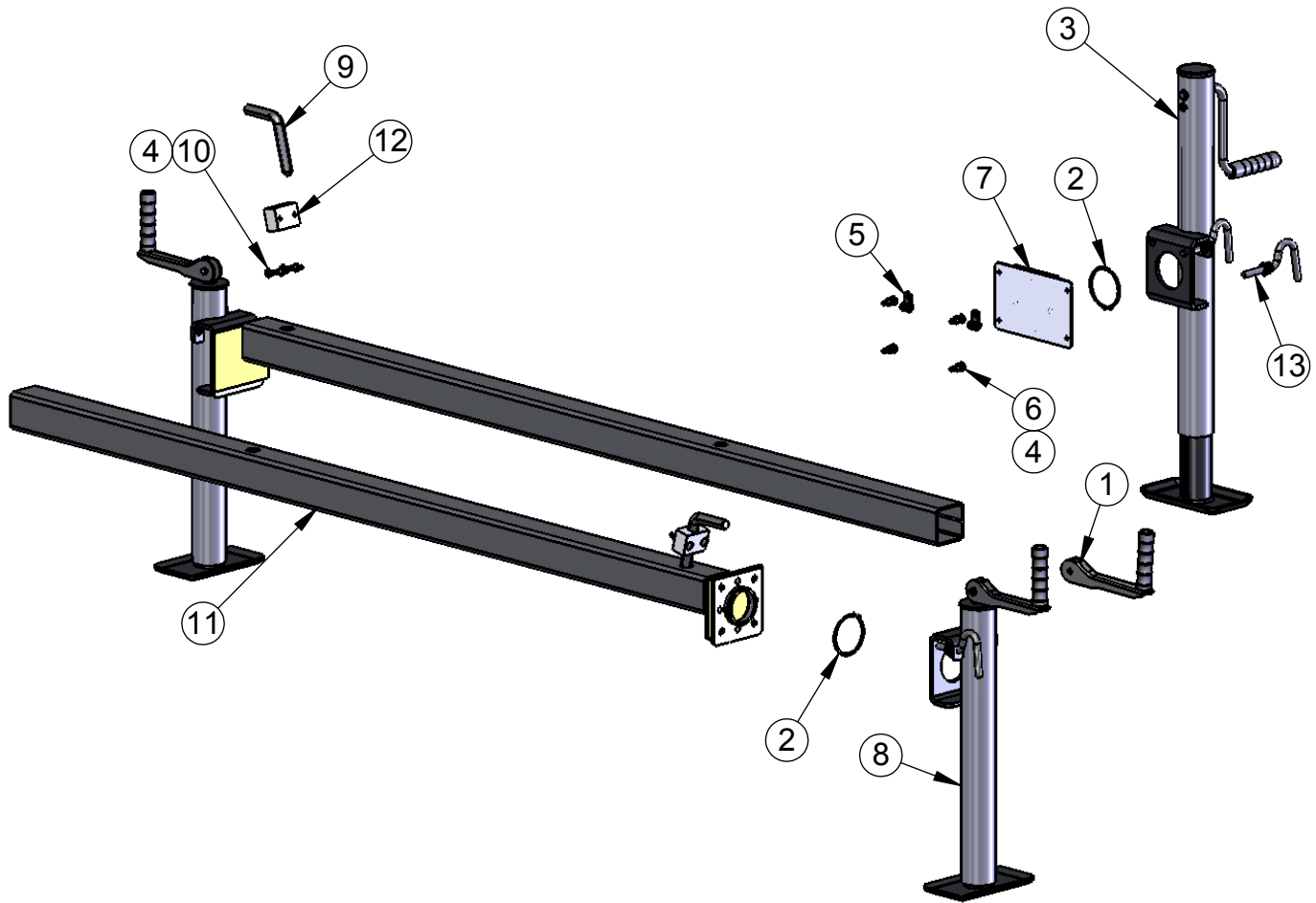
MAXI LITE V SERIES HYDRAULIC AXLE AND HITCH



MAXI LITE V SERIES HYDRAULIC AXLE AND HITCH

NO.	QTY.	PART NO.	DESCRIPTION
1	4	046050	BOLT CS 5/16-18 X 1 HEX GR5 PL
2	4	044030	5/16-18 HEX NUT
3	2	044043	7/16-14 NYLOCK NUT
4	2	046160	7/16-14 X 1 1/2 HEX BOLT
5	4	047015	3/8 FLAT WASHER
6	2	049040	SAFETY CHAIN
7	2	044062	1/2-13 LOCK NUT
8	2	046220	1/2-13 X 4" HEX BOLT
9	2	044061	5/8-11 LOCK NUT
10	2	046250	5/8-11 X 4 1/2 HEX BOLT
11	1	712021	2" BALL SAE CLASS 2
12	1	712540-15	PINTLE HITCH
19	1	352021	AXLE
13	1	101847P	PLATFORM STEP
14	1	330013	JACK LOCK PIN
15	1	680879	TOP CRANK JACK, TUBE MOUNT
16	10	032048	1/2-13 LUG NUT
17	2	680124	ASSY, WHEEL & TIRE, 15"
18	2	032025	AXLE MOUNTING HARDWARE KIT
19	1	352021	AXLE
NS	1	105213	HUB W/ RACES
NS	1	105212	BEARING SET
NS	1	330005D	GREASE CAP
NS	1	650169	COUPLER LATCH KIT

MAXI LITE V SERIES HYDRAULIC OUTRIGGERS AND JACKS

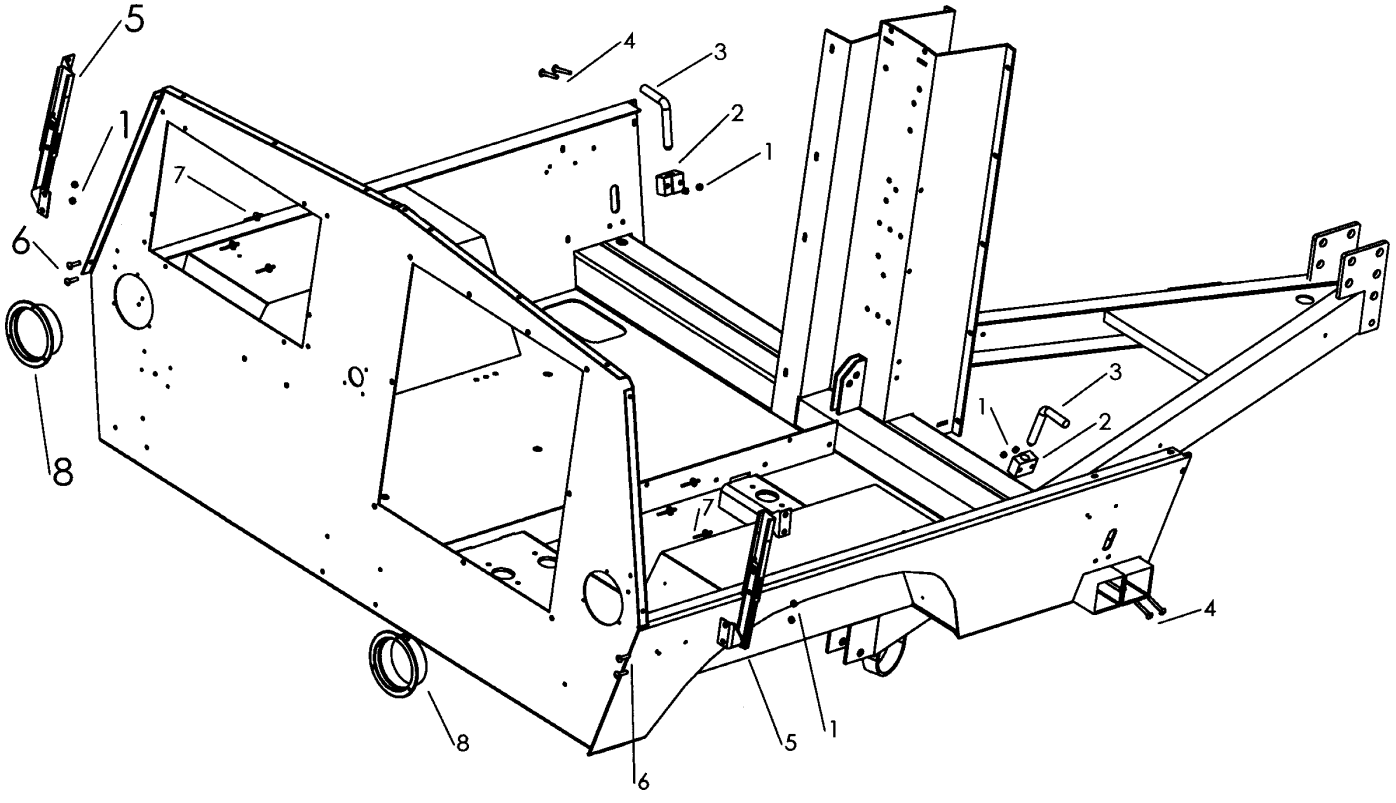


NO.	QTY.	PART NO.	DESCRIPTION
1	1	330012A	JACK HANDLE REPLACEMENT
2	3	330014	RING, JACK RETAINING SNAP
3	1	352072	JACK SIDE CRANK SNAP RING
4	8	044023	1/4-20 NYLOCK NUT
5	2	022015	#4 CUSHION CLAMP
6	4	041080	1/4-20 X 1" TRUSS SCREW
7	1	680112P	JACK MOUNT
8	2	330010	LONG JACK
9	2	330455	OUTRIGGER PIN
10	4	041053	1/4-20 x 1 3/4" PHILLIPS HEAD TRUSS SCREW
11	2	680113P	OUTRIGGER
12	2	330430	GUIDE BLOCK
13	1	330012A	LOCK HANDLE REPLACEMENT KIT

LEGEND:
NS=NOT SHOWN
WHEN ORDERING, SPECIFY THE
COLOR WANTED ON PARTS
CONTAINING THE LETTER "P"

MAXI LITE V SERIES HYDRAULIC

TAILLIGHTS, DOOR PROPS AND OUTRIGGER LOCKS



TAILLIGHTS, DOOR PROPS AND OUTRIGGER LOCKS

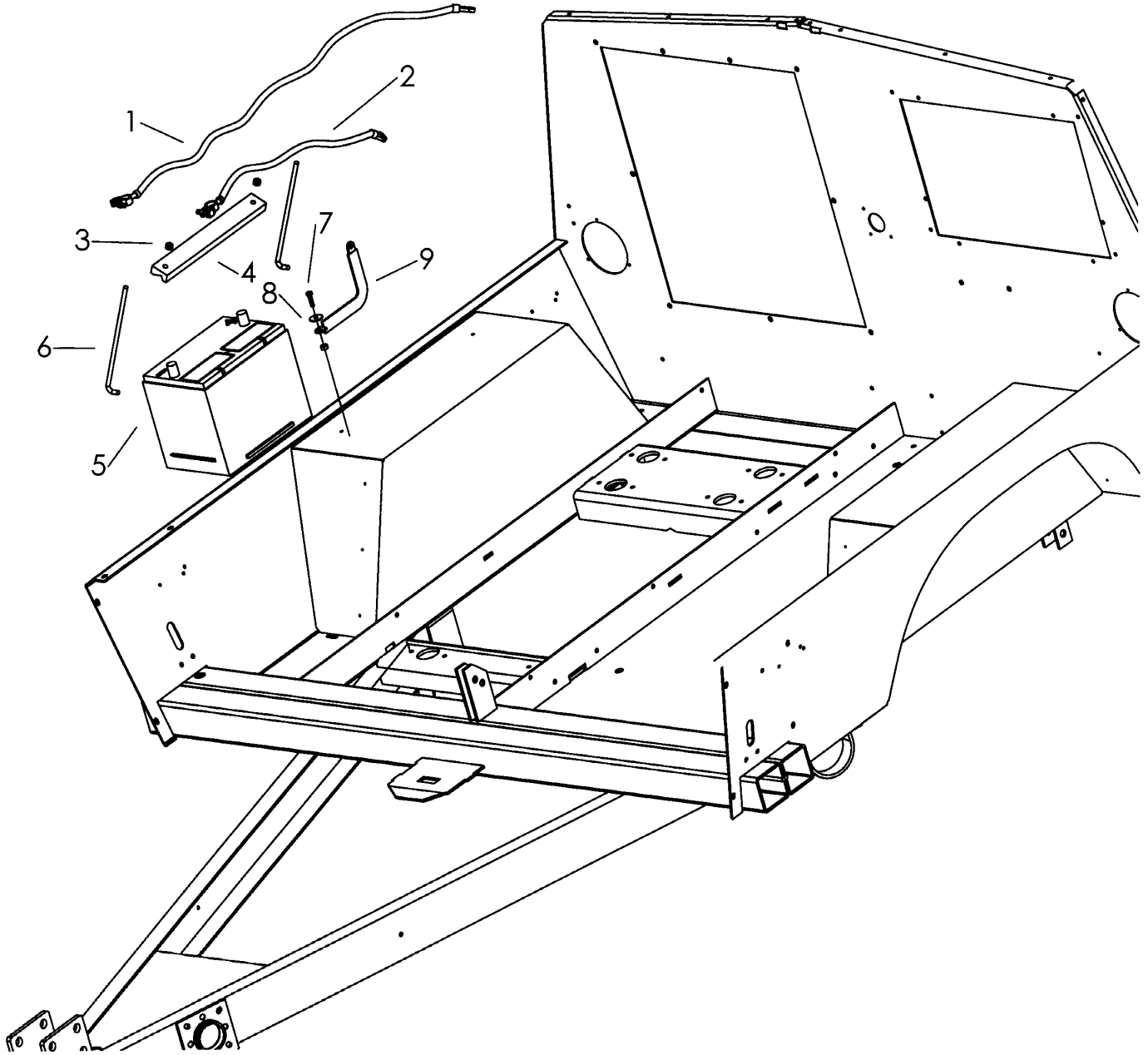
C-2B

NO	REQ'D	PART NO	DESCRIPTION
1	8	044023	1/4-20 NC NYLON INSERT NUT
2	2	330430	OUTRIGGER PIN BLOCK
3	2	330455	OUTRIGGER PIN
4	4	041053	1/4 - 20 NC X 1 3/4 SS SCREW
5	2	352057	TELESCOPIC PROP
6	4	041080	1/4 - 20 NC X 1 SS SCREW
7	6	045113	3/16 ALUMINUM RIVETS
8	2	650129	TAILLIGHT
		352037	TAILLIGHT WIRING HARNESS
		680190	TAILLIGHT ASSEMBLY

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red



BATTERY, CABLES, AND GROUND STRAP

C-3B

NO	REQ'D	PART NO	DESCRIPTION
1	1	027010	21" BATTERY CABLE
2	1	027010	21" BATTERY CABLE
3	2	044033	5/16 - 18 NC NYLON INSERT NUT
4	1	340017	NYLON BATTERY HOLD DOWN
5	1	024002	12 VOLT BATTERY
	1	024003	12 VOLT BATTERY (ARCTIC SPL. ONLY)
6	2	433507	J-BOLT 5/16 X 11"
7	1	046015	1/4-18 NC X 1 BOLT W/ KEPS NUT
8	2	047005	1/4 FLAT WASHER
9	1	340105	GROUND STRAP

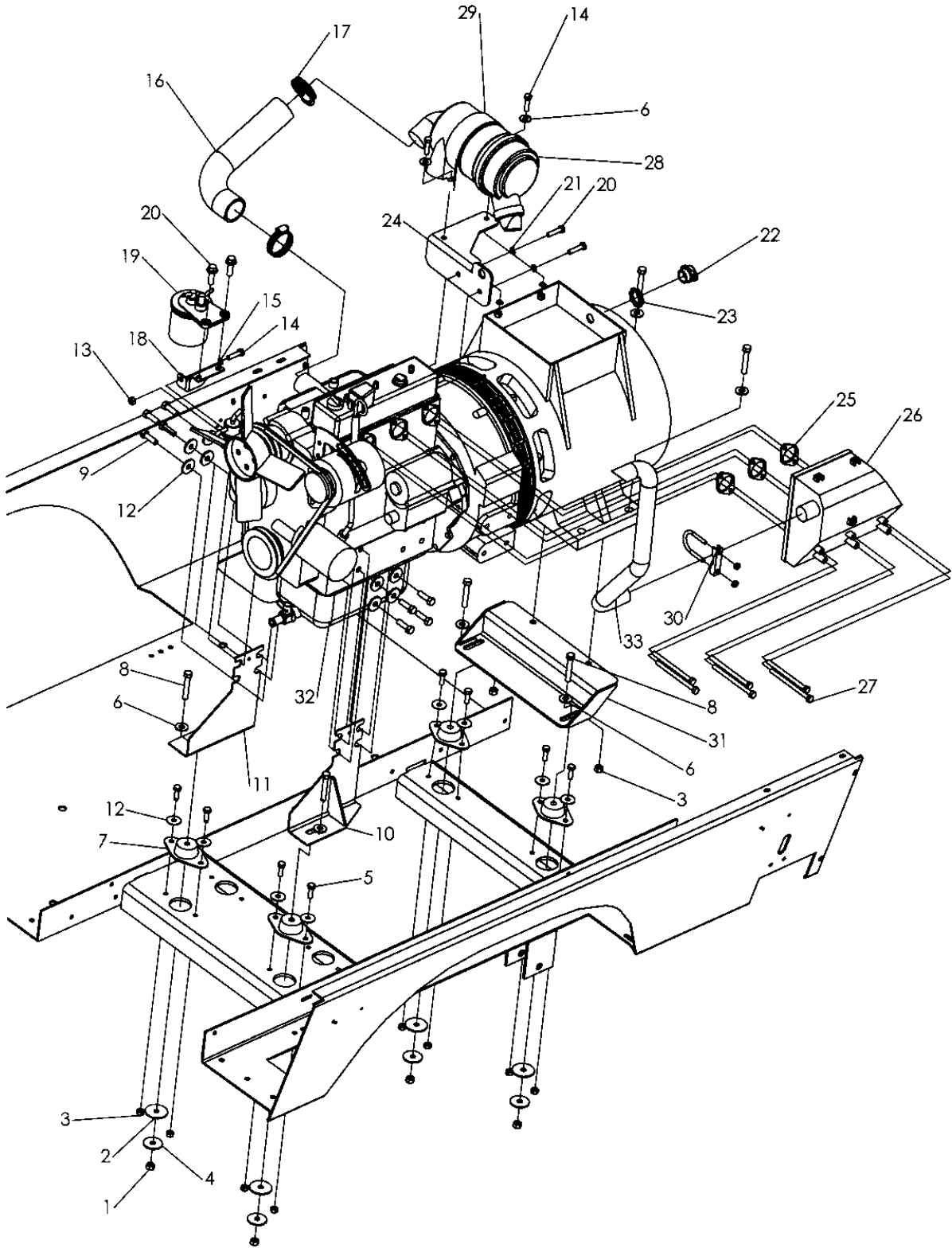
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



KUBOTA V2203 ENGINE/GENERATOR SET

C-4B

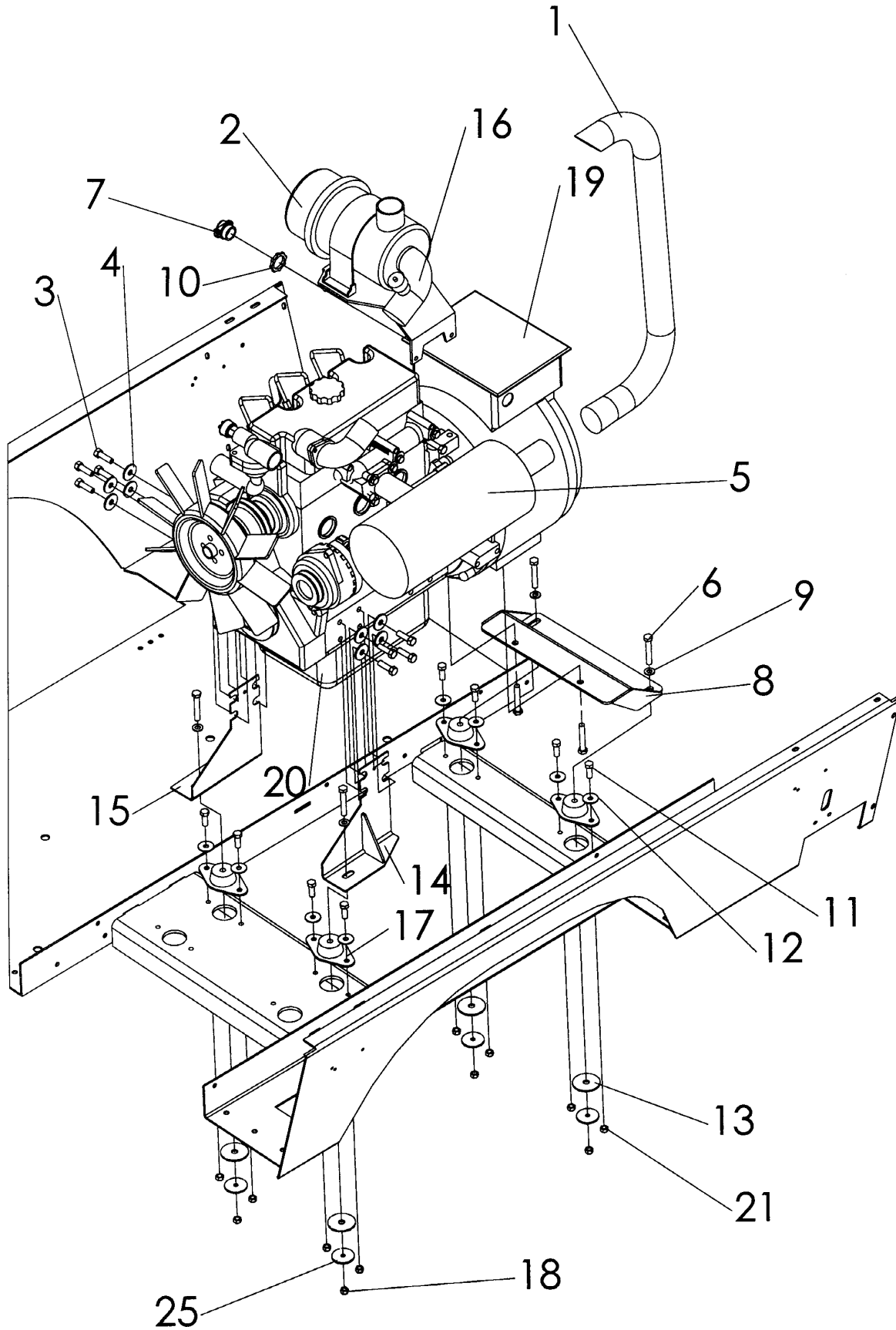
NO	REQ'D	PART NO	DESCRIPTION
1	4	044038	3/8 - 16 NC NYLON INSERT NUT
2	4	640565	ENGINE MOUNT WASHER
3	8	044033	5/16 - 18 NC NYLON INSERT NUT
4	4	650260	SNUBBING WASHER
5	8	046050	5/16 - 18 NC X 1 GRADE 5 BOLT
6	6	047015	3/8 FLAT WASHER
7	4	848997	RUBBER ENGINE MOUNTS
8	6	046132	3/8 - 16 NC X 2 1/4 GRADE 5 BOLT
9	9	042038	10mm X 20mm X 1.25 GRADE 8.8 BOLT
10	1	640238*	ENGINE MOUNT BRACE, RIGHT
11	1	640237*	ENGINE MOUNT BRACE, LEFT
12	12	047016	3/8 SAE FLAT WASHER
13	3	044031	5/16 - 18 NC KEPS NUT
14	3	046055	5/16 - 18 NC X 1-1/4 GRADE 5 BOLT
15	3	043060	5/16 INTERNAL TOOTH LOCK WASHER
16	1	650272	AIR INTAKE HOSE
17	2	045038	HOSE CLAMP #32
18	1	@@@	FUEL FILTER MOUNTING PLATE
19	1	920745	KUBOTA FUEL FILTER
20	4	042027	8mm X 20mm X 1.25 GRADE 8.8 BOLT
21	2	043055	5/16 SPLIT LOCK WASHER
22	1	022025	2-SCREW ROMEX CLAMP 3/4
23	1	022036	3/4" STEEL LOCK NUT
24	1	650291	AIR CLEANER MOUNT PLATE
25	3	650234	EXHAUST MANIFOLD MOUNT GASKET
26	1	352139	KUBOTA BOX MUFFLER KIT
27	6	046080	5/16 - 18 NC X 4-1/4 GRADE 5 BOLT
28	1	650262	AIR CLEANER RADIAL SEAL
29	2	650263	AIR CLEANER BAND CLAMP
30	1	313086	MUFFLER CLAMP
31	1	680241	GENERATOR MOUNT PLATE
32	1	350350	ENGINE KUBOTA V1903
		350355	ENGINE KUBOTA V2203
		350352	ENGINE KUBOTA V2003T
33	1	352140	EXHAUST PIPE, KUBOTA
34	1	350351	GENERATOR 15 KW

@@@ =See Kubota Dealer

NOTE: Exhaust pipe, muffler, and air cleaners used may differ from illustration depending on engine used.

LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:
 01-White
 02-Gloss Black
 03-Gray
 04-Allmand Yellow
 05-Orange
 06-Allmand Gold
 09-Flat Black
 10-High temp Black
 11-Red



ISUZU 4LE ENGINE/GENERATOR SET

C-4D

NO	REQ'D	PART NO	DESCRIPTION
1	1	680298	EXHAUST PIPE, ISUZU
2	1	@@@	AIR CLEANER
3	8	042038	10MM X 20MM X 1.25 GRADE 8.8 BOLT
4	8	047016	3/8 SAE FLAT WASHER
5	1	680427	MUFFLER, ISUZU
		650234	MUFFLER GASKET
6	6	046132	3/8 - 16 NC X 2 1/4 GRADE 5 BOLT
7	1	022025	CLAMP, 2 SCREW ROMEX 3/4"
8	1	680254	GENERATOR MOUNT PLATE, ISUZU
		680504	GENERATOR MOUNT PLATE, ISUZU/NEWAGE 3 PHASE
		680531	GENERATOR MOUNT PLATE, ISUZU/MARATHON 3 PHASE
9	6	047015	3/8 FLAT WASHER
10	1	022036	3/4" STEEL LOCK NUT
11	8	046050	5/16 - 18 NC X 1 GRADE 5 BOLT
12	8	047010	5/16 FLAT WASHER
13	4	640565	ENGINE MOUNT WASHER
14	1	680301	ENGINE MOUNT, RIGHT
15	1	680302	ENGINE MOUNT, LEFT
16	1	650272	AIR INTAKE HOSE, ISUZU
17	4	650259	RUBBER ENGINE MOUNTS
18	4	044038	3/8 - 16 NC NYLON INSERT NUT
19	1	350357	GENERATOR, MARATHON 15KW
		350356	GENERATOR, MARATHON 20KW
		350358	GENERATOR, NEWAGE 20 KW 3 PHASE
		680867	GENERATOR, MARATHON 20 KW 3 PHASE
20	1	680275	ENGINE, ISUZU 4LE
21	8	044033	5/16 - 18 NC NYLON INSERT NUT
22	4	650260	SNUBBING WASHER
NS		680331	AIR FILTER (PRIMARY)
NS		680332	AIR FILTER (SECONDARY)
NS		650221	OIL FILTER
NS		650220	FUEL FILTER

@@@ =See Isuzu Dealer

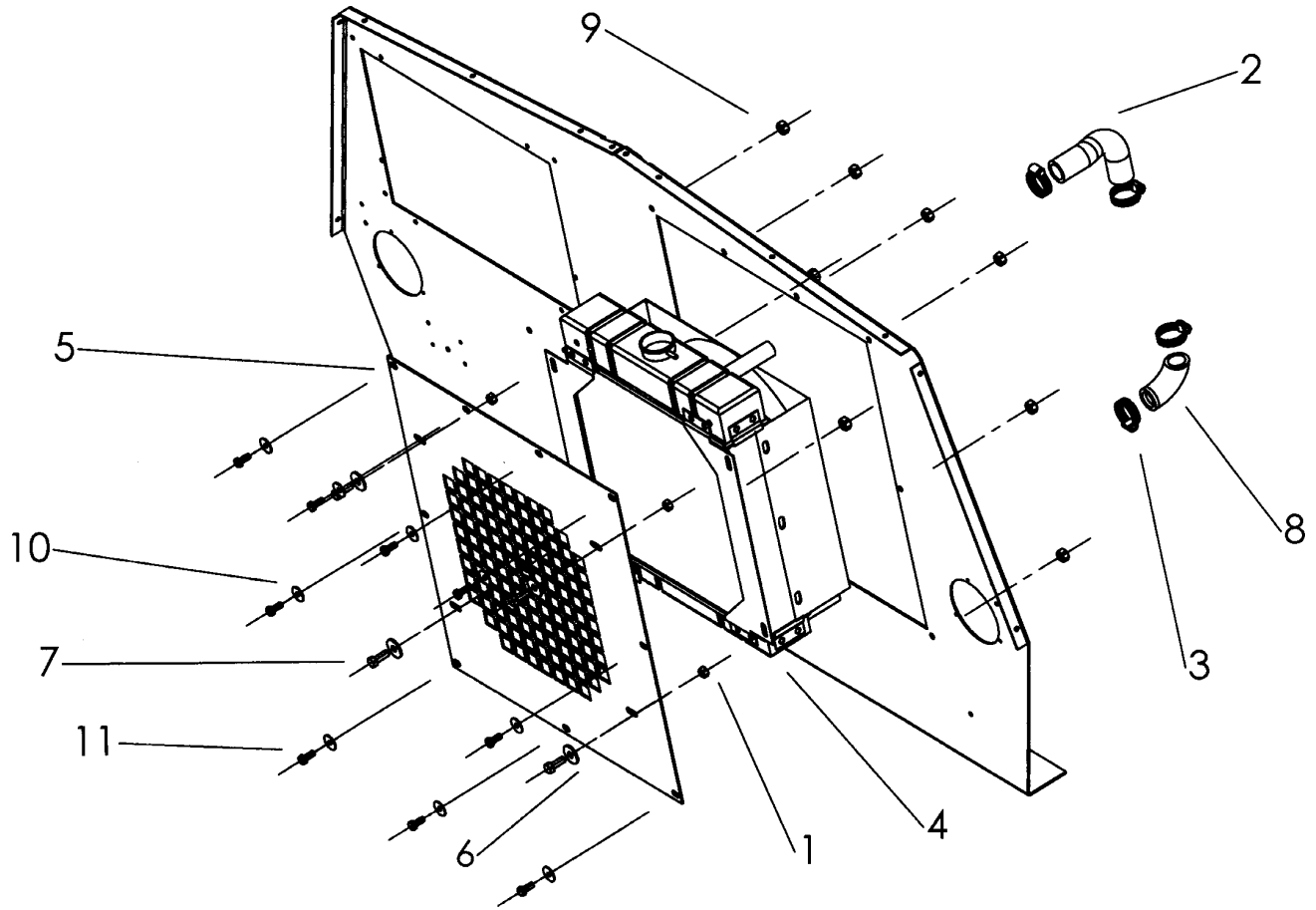
NOTE: Exhaust pipe, muffler, and air cleaners used may differ from illustration depending on engine used.

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

KUBOTA RADIATOR AND MOUNTING PLATE



KUBOTA RADIATOR AND MOUNTING PLATE

C-5B

NO	REQ'D	PART NO	DESCRIPTION
1	4	044036	3/8 - 16 NC KEPS NUT
2	1	@@@	UPPER RADIATOR HOSE
3	4	045035	#20 HOSE CLAMP
4	1	650107	KUBOTA RADIATOR
5	1	680122*	KUBOTA/PERKINS RADIATOR MOUNT PLATE
6	4	047015	3/8 FLAT WASHER
7	4	046110	3/8 - 16 NC X 1 GRADE 5 BOLT
8	1	@@@	LOWER RADIATOR HOSE
9	9	044031	5/16 - 18 NC KEPS NUT
10	9	047005	1/4 FLAT WASHER
11	9	046045	5/16 - 18 NC X 3/4 GRADE 5 BOLT

@@@ =Contact local Kubota Dealer

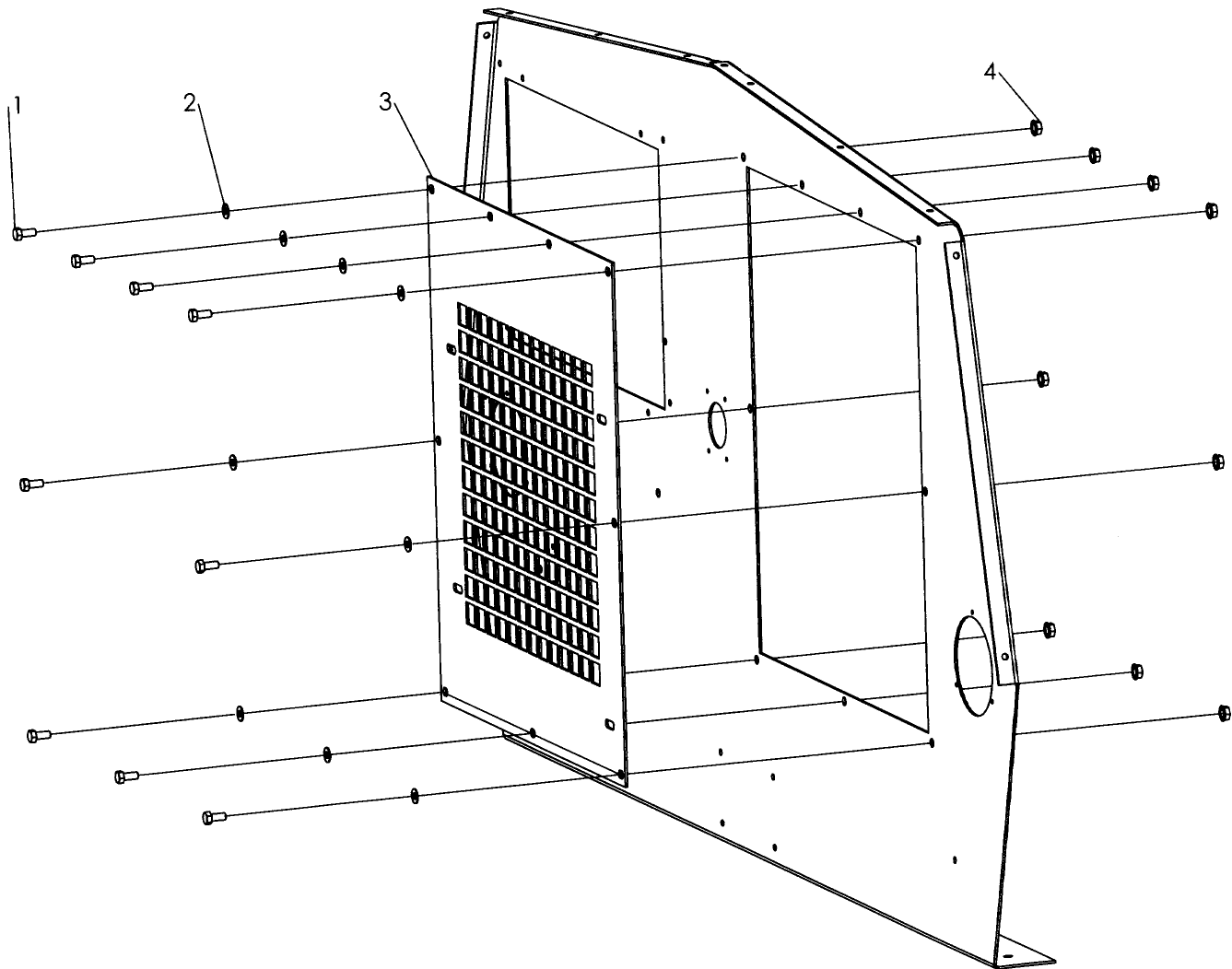
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



ISUZU RADIATOR MOUNTING PLATE

C-5D

NO	REQ'D	PART NO	DESCRIPTION
1	9	046045	5/16 - 18 NC X 3/4 GRADE 5 BOLT
2	9	047005	1/4 FLAT WASHER
3	9	680294*	ISUZU RADIATOR MOUNT PLATE
4	9	044031	5/16 - 18 NC KEPS NUT

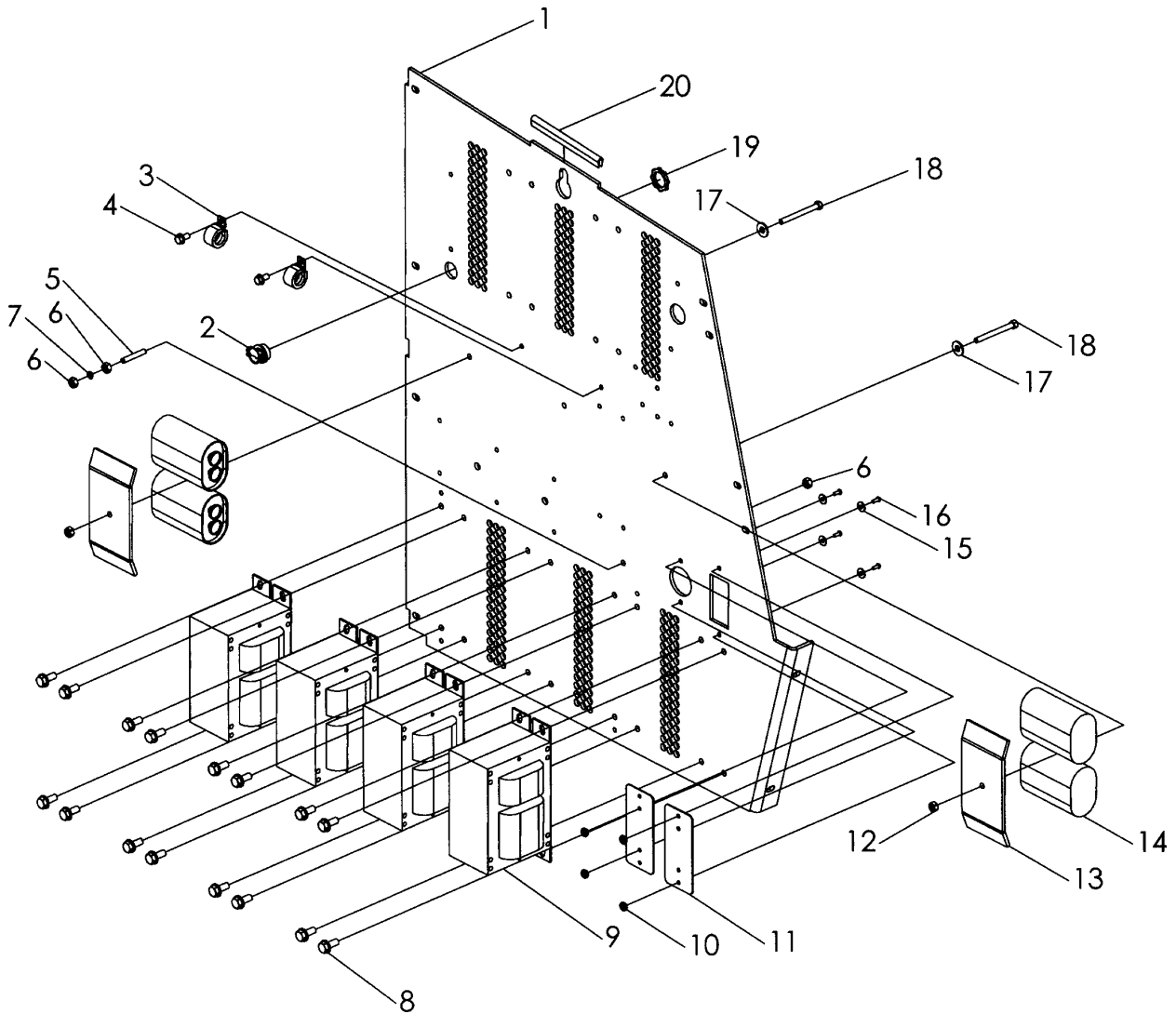
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



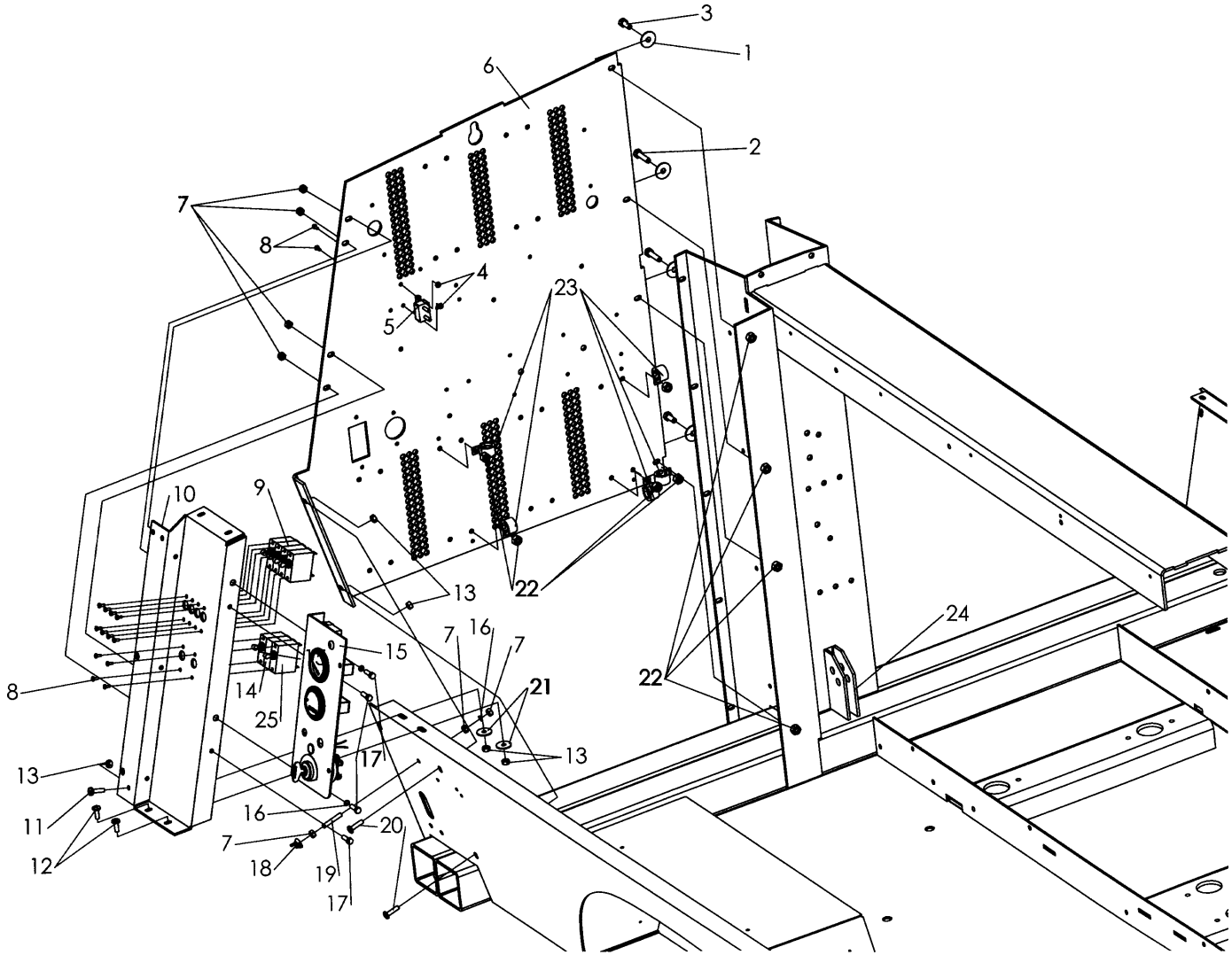
4-LIGHT BALLAST ASSEMBLY

C-6B

NO	REQ'D	PART NO	DESCRIPTION
		310118	HPS TRANSFORMER, CAPACITOR, AND STARTER
		310119	HPS CAPACITOR AND STARTER ONLY
1	1	680119*	BALLAST PANEL, ONLY
2	1	022025	2-SCREW ROMEX CLAMP, 3/4
3	2	**	7/8 CUSHION CLAMP
4	2	**	1/4 - 20 NC SELF TAPPING SCREW
5	1	**	1/4 - 20 NC X 1 1/2 STUD BOLT
6	3	044021	1/4 - 20 NC KEPS NUT
7	1	043050	1/4 INTERNAL TOOTH LOCK WASHER
8	16	041075	5/16 - 18 NC SELF-TAPPING SCREW
9	4	310124	TRANSFORMER ONLY
10	4	044004	#6 - 32 NC KEPS NUT
NS	1	330490	RECEPTACLE 240V. 15A (6KW ONLY)
11	4	650367	OUTLET COVER
12	2	044024	1/4 - 20 NC NYLON INSERT NUT
13	2	610570-03	DUAL CAPACITOR MOUNTING CLAMP
14	4	310115	CAPACITOR ONLY, 24 UF
NS		310391	CAPACITOR ONLY, 28 UF
15	4	047009	#8 FLAT WASHER SS
16	4	041017	#6-32 NC X 3/8 ROUND HEAD SCREW
17	2	047005	1/4 FLAT WASHER
NS	1	711029	7/8 HOLE PLUG (MANUAL WINCH)
18	1	046036	1/4-20 X 2-1/2 GRADE 5 BOLT
19	1	022036	STEEL LOCK NUT, 3/4
20	1	030054	RUBBER EDGE TRIM 3/16 X 5" LONG

LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:
 01-White
 02-Gloss Black
 03-Gray
 04-Allmand Yellow
 05-Orange
 06-Allmand Gold
 09-Flat Black
 10-High temp Black
 11-Red



4-LIGHT AC GAUGE PANEL ASSEMBLY

C-7B

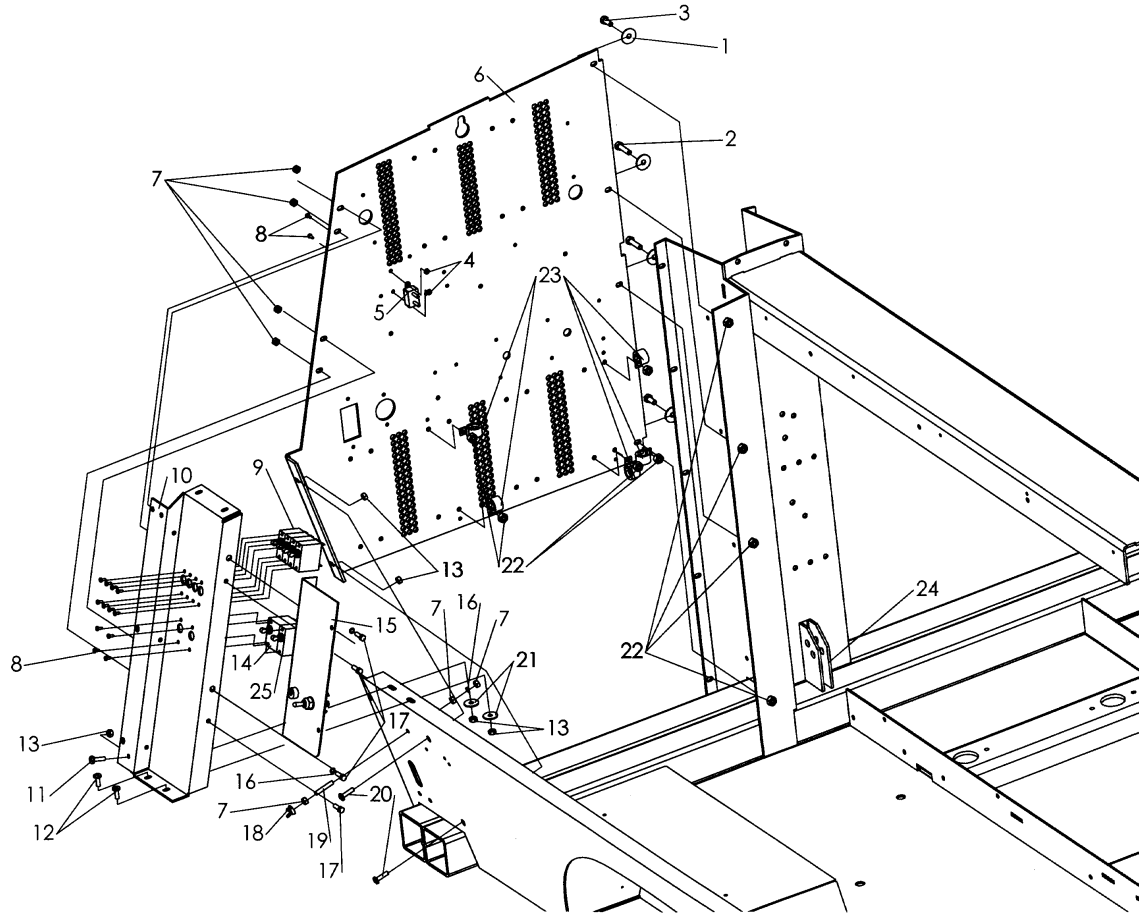
NO	REQ'D	PART NO	DESCRIPTION
1	4	047010	5/16 FLAT WASHER
2	2	046055	5/16 - 18 NC X 1 1/4 GRADE 5 BOLT
3	2	046045	5/16 - 18 NC X 3/4 GRADE 5 BOLT
4	2	044004	#6 - 32 NC KEPS NUT
5	1	650139	30 AMP CIRCUIT BREAKER, KUBOTA ONLY
6	1	680119*	BALLAST PANEL, ONLY
7	7	043021	1/4-20 NC KEPS NUT
8	14	041017	#6-32 NC X 3/8 ROUND HEAD SCREW
9	4	330458	CIRCUIT BREAKER SWITCH, 15 AMP SP
10	1	680118*	LEFT QUARTER PANEL 4-LIGHT
11	1	041250	1/4 - 20 NC X 1/2 ROUND HEAD NYLON SCREW
12	2	041050	1/4 - 20 NC X 3/4 SCREW
13	3	044023	1/4 - 20 NC NYLON INSERT NUT
14	1	330459	CIRCUIT BREAKER SWITCH , 15 AMP DP (6KW ONLY)
	1	330453	CARLING SWITCH 20 AMP SP (8KW ONLY)
15	1	680123*	KUBOTA DC GAUGE PANEL
16	3	043050	1/4 INTERNAL TOOTH LOCK WASHER
17	4	046015	1/4 - 20 NC X 1 GRADE 5 BOLT
18	1	330494	1/4 - 20 NC WING NUT
19	1	**	1/4 - 20 NC X 1 1/2 STUD
20	2	041080	1/4 - 20 NC X 1 SCREW
21	2	047008	1/4 STAINLESS STEEL FLAT WASHER
22	9	044031	5/16 - 18 NC KEPS NUT
23	5	022024	3/4" CUSHION CLAMP WITH 3/8 HOLE
24	1	352000	PULLEY BRACKET (NOTE: USE LOWER HOLE FOR MANUAL WINCH AND UPPER HOLE FOR ELECTRIC WINCH)
25	1	330458	CARLING SWITCH, 15 AMP DP (6KW ONLY)
	1	330456	CARLING SWITCH, 30AMP DP (8KW ONLY)

LEGEND: NS= Not Shown
 ** =Purchase locally

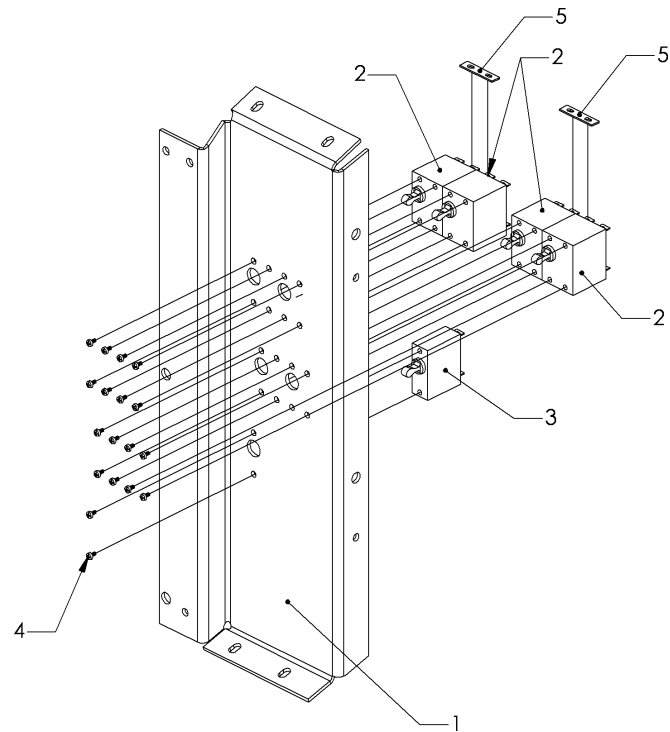
* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

ISUZU 4-LIGHT AC GAUGE PANEL ASSEMBLY



ISUZU 4-LIGHT AC GAUGE PANEL ASSEMBLY (3 PHASE)



ISUZU 4-LIGHT AC GAUGE PANEL ASSEMBLY**C-7D**

NO	REQ'D	PART NO	DESCRIPTION
1	4	047010	5/16 FLAT WASHER
2	2	046055	5/16 - 18 NC X 1 1/4 GRADE 5 BOLT
3	2	046045	5/16 - 18 NC X 3/4 GRADE 5 BOLT
4	2	044004	#6 - 32 NC KEPS NUT
5	1	650139	30 AMP CIRCUIT BREAKER, KUBOTA ONLY
6	1	680119*	BALLAST PANEL, ONLY
7	7	043021	1/4-20 NC KEPS NUT
8	14	041017	#6-32 NC X 3/8 ROUND HEAD SCREW
9	4	330458	CIRCUIT BREAKER SWITCH, 15 AMP SP
10	1	680118*	LEFT QUARTER PANEL 4-LIGHT
11	1	041250	1/4 - 20 NC X 1/2 ROUND HEAD NYLON SCREW
12	2	041050	1/4 - 20 NC X 3/4 SCREW
13	3	044023	1/4 - 20 NC NYLON INSERT NUT
14	1	330459	CIRCUIT BREAKER SWITCH , 15 AMP DP (6KW ONLY)
	1	330453	CARLING SWITCH 20 AMP SP (8KW ONLY)
15	1	680365*	ISUZU DC GAUGE PANEL
16	3	043050	1/4 INTERNAL TOOTH LOCK WASHER
17	4	046015	1/4 - 20 NC X 1 GRADE 5 BOLT
18	1	330494	1/4 - 20 NC WING NUT
19	1	**	1/4 - 20 NC X 1 1/2 STUD
20	2	041080	1/4 - 20 NC X 1 SCREW
21	2	047008	1/4 STAINLESS STEEL FLAT WASHER
22	9	044031	5/16 - 18 NC KEPS NUT
23	5	022024	3/4" CUSHION CLAMP WITH 3/8 HOLE
24	1	352000	PULLEY BRACKET (NOTE: USE LOWER HOLE FOR MANUAL WINCH AND UPPER HOLE FOR ELECTRIC WINCH)
25	1	330458	CARLING SWITCH, 15 AMP DP (6KW ONLY)
	1	330456	CARLING SWITCH, 30AMP DP (8KW ONLY)

ISUZU 4-LIGHT AC GAUGE PANEL ASSEMBLY (3 PHASE)**C-7D2**

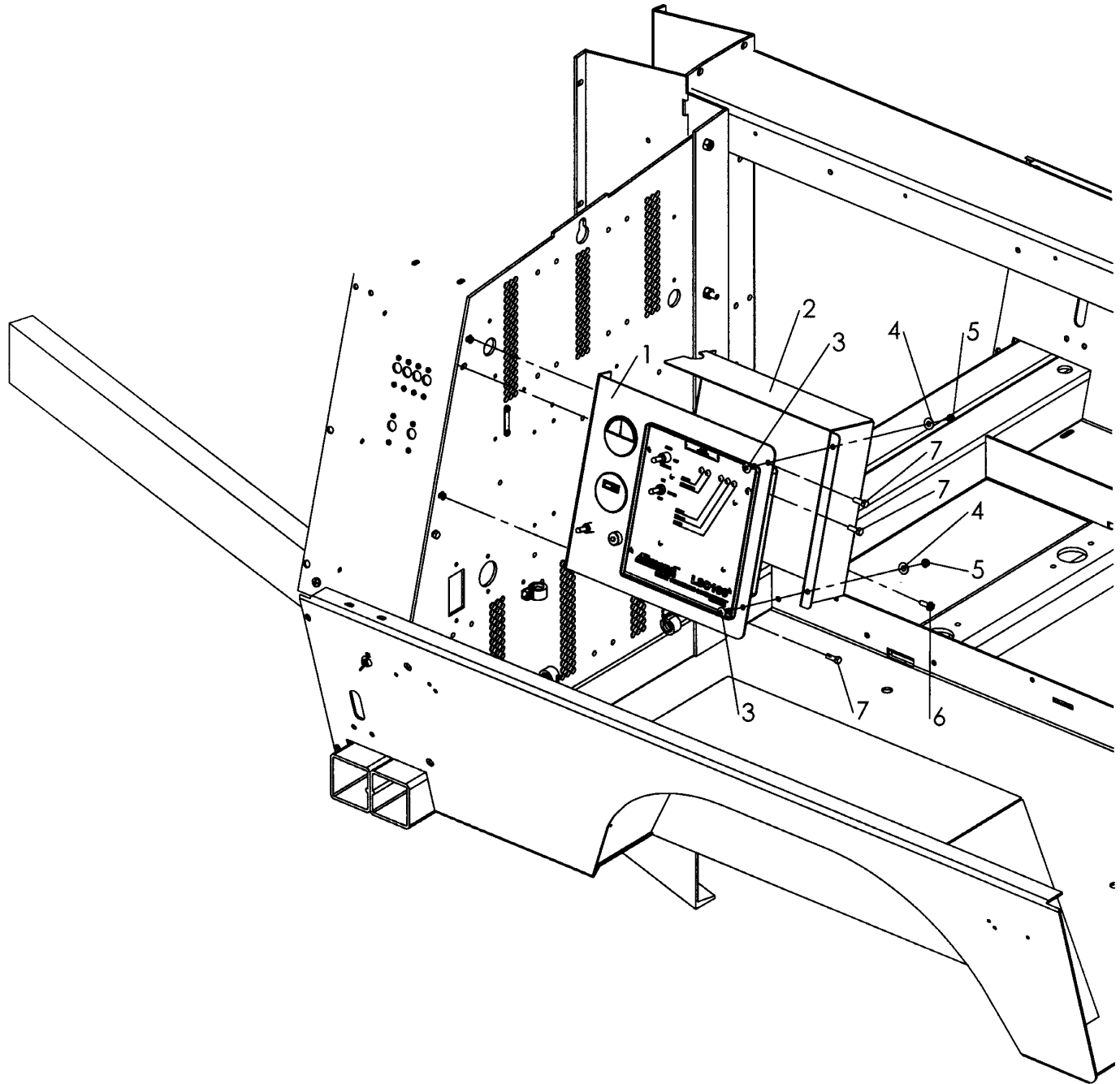
NO	REQ'D	PART NO	DESCRIPTION
1	1	680509	240V 3 PHASE, LEFT FRONT QUARTER PANEL
2	4	330459	15 AMP DPST CIRCUIT BREAKER
3	1	330458	15 AMP SPST CIRCUIT BREAKER
4	18	041018	#6 - 32 X 1/4" PHILLIPS HEAD MACHINE SCREW
5	2	620560	BUSS BAR

LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

4-LIGHT AC GAUGE PANEL AND LSC 100 LIGHT SEQUENCE COMMANDER CONTROLLER PANEL ASSEMBLY



4-LIGHT AC GAUGE PANEL AND LSC 100 **C-7F**
LIGHT SEQUENCE COMMANDER CONTROLLER PANEL ASSEMBLY

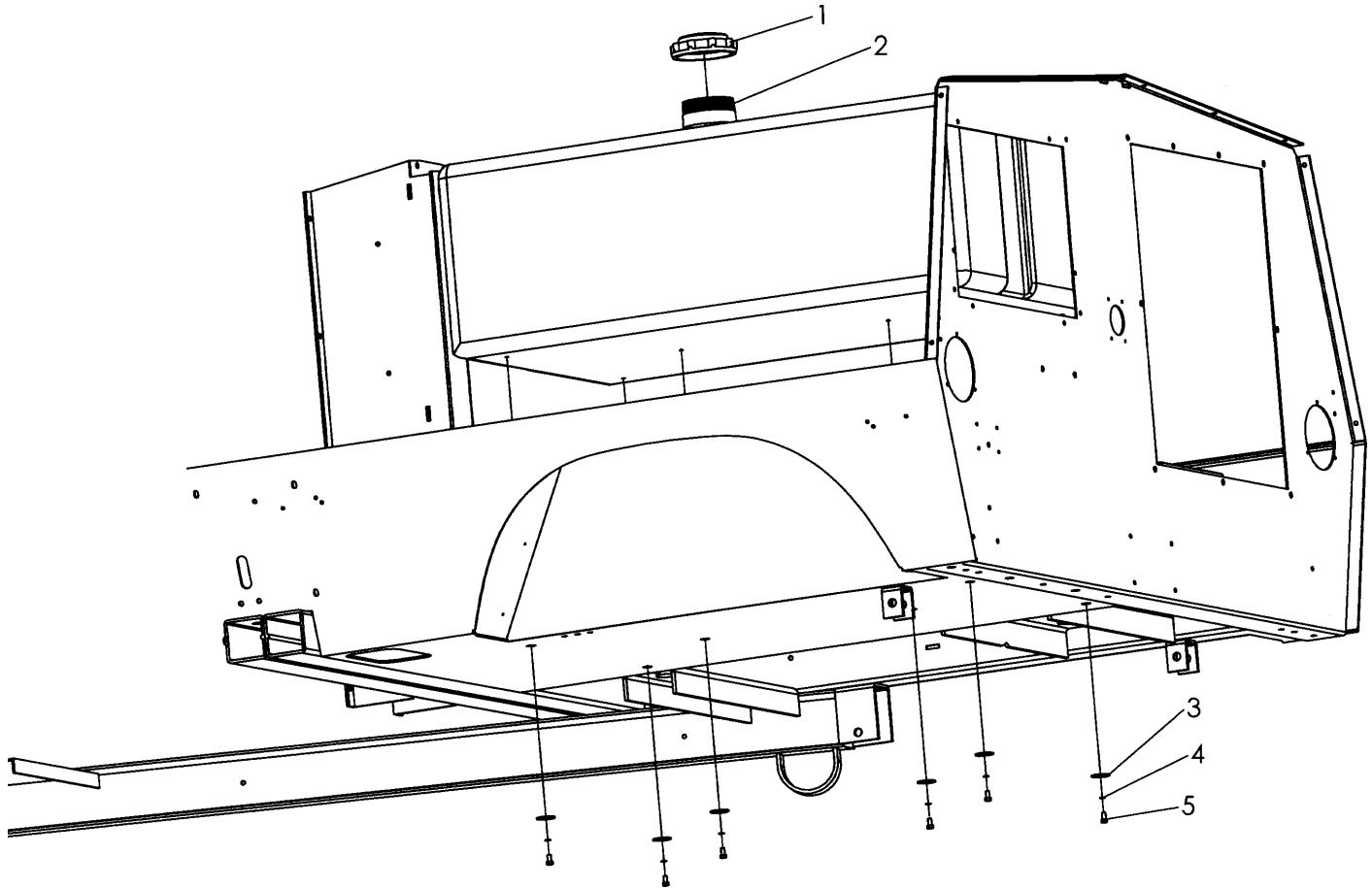
NO	REQ'D	PART NO	DESCRIPTION
1	1	680391	LSC 100 CONTROL PANEL ASSEMBLY (STANDARD)
		680392	PANEL FOR ELECTRIC OR HYDRAULIC TOWERS (OPTIONAL)
2	1	650715	LSC 100 COVER BACK
3	2	041050	1/4 - 20 NC X 3/4 ROUND HEAD SCREW
4	2	047005	1/4" FLAT WASHER
5	2	044021	1/4" KEPS NUT
6	1	041070	1/4 - 20 NC X 3/4 MACHINE SCREW
7	3	046010	1/4 - 20 NC X 3/4 HEX BOLT

LEGEND: NS= Not Shown
 ** =Purchase locally

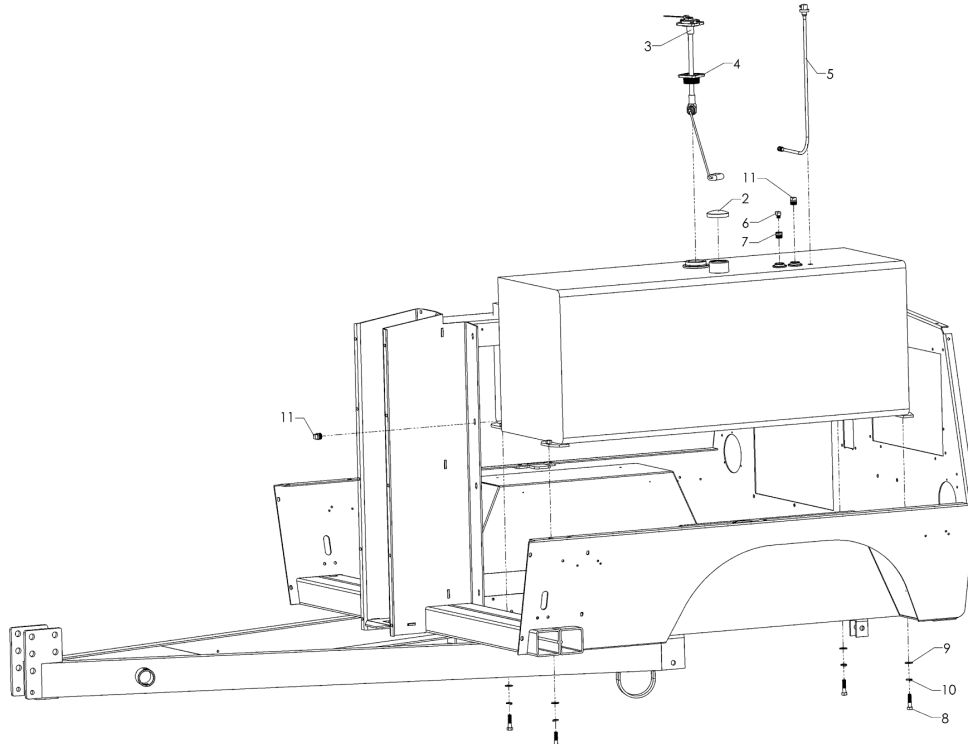
* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

50 GALLON FUEL TANK ASSEMBLY



70 GALLON FUEL TANK ASSEMBLY



FUEL TANK ASSEMBLY**C-9B****50 GALLON FUEL TANK ASSEMBLY**

NO	REQ'D	PART NO	DESCRIPTION
1	1	340441	FUEL TANK FILLER CAP
2	1	340440	FUEL TANK, 50 GALLON
3	6	047007	1/4 X 1 1/4 FENDER WASHER
4	6	043050	1/4 INTERNAL TOOTH LOCK WASHER
5	6	046005	1/4 - 20 NC X 1/2 GRADE 5 BOLT

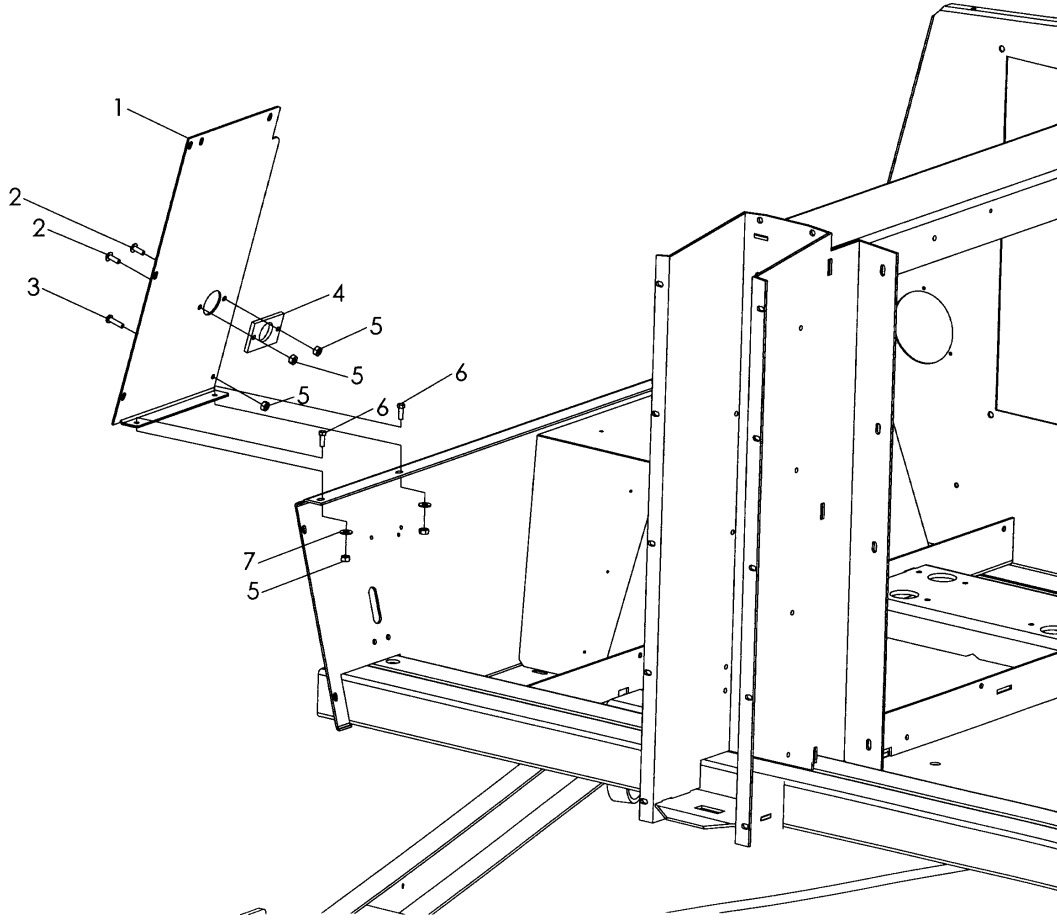
70 GALLON FUEL TANK ASSEMBLY**C-9B2**

NO	REQ'D	PART NO	DESCRIPTION
1	1	100024	70 GALLON FUEL TANK
2	1	100380	FUEL TANK CAP 2.25" NECK BEFORE 1/08
	1	100854	FUEL TANK CAP 4.3" NECK AFTER 1/08
3	1	100025	FUEL LEVEL GAUGE/SENDER
4	1	848967	GAUGE ADAPTER
5	1	340025	FUEL SUCTION TUBE ASSEMBLY
6	1	930151	90° 1/8 NPT X 5/16" HOSE FITTING
7	1	100358	3/8 NPT X 1/8 NPT REDUCING BUSHING
8	4	046120	3/8-16 X 1 1/2" GR 5 HEX BOLT
9	4	047010	5/16" PLATED FLAT WASHER
10	4	043065	3/8" SPLIT LOCK WASHER
11	2	**	3/8" NPT PIPE PLUG

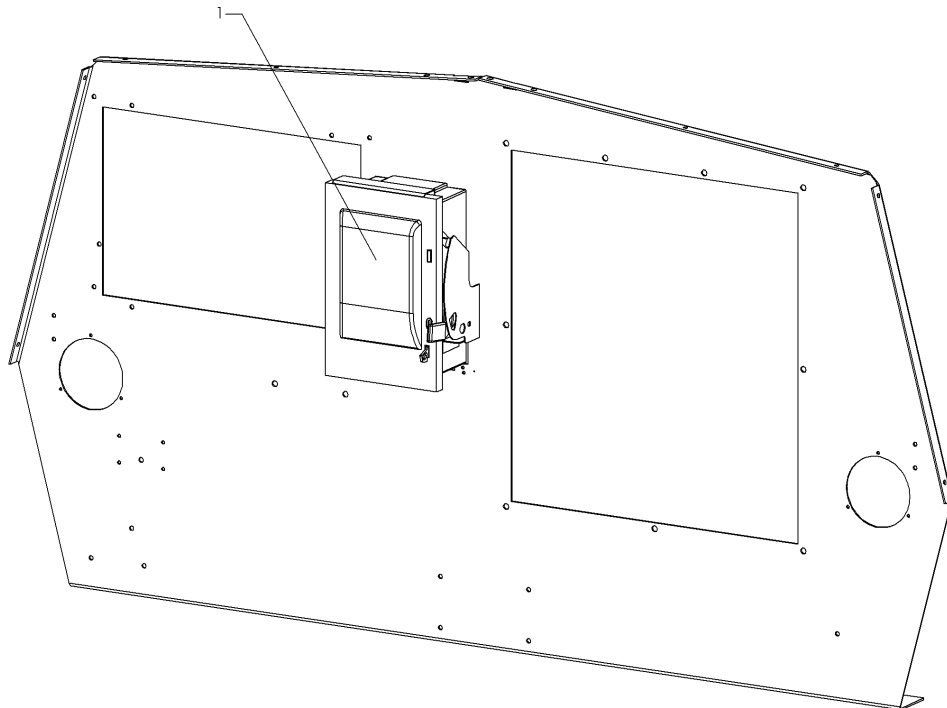
LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red



240V REAR PANEL WITH DISCONNECT



RIGHT QUARTER PANEL ASSEMBLY

C-10B

NO	REQ'D	PART NO	DESCRIPTION
1	1	680256*	RIGHT QUARTER PANEL
		680512*	RIGHT QUARTER PANEL (After Sept. 2005)
2	2	041050	1/4 - 20 NC X 3/4 SCREW
3	1	041250	1/4 - 20 NC X 1 ROUND HEAD NYLON SCREW
4	1	630547	WINCH HANDLE NYLON BLOCK
5	5	044023	1/4 -20 NC NYLON INSERT NUT
6	2	041250	1/4 - 20 NC X 3/4 GRADE 5 BOLT
7	2	047008	1/4 STAINLESS STEEL FLAT WASHER

240V REAR PANEL WITH DISCONNECT

C-10D

NO	REQ'D	PART NO	DESCRIPTION
1	1	352398	SAFETY SWITCH

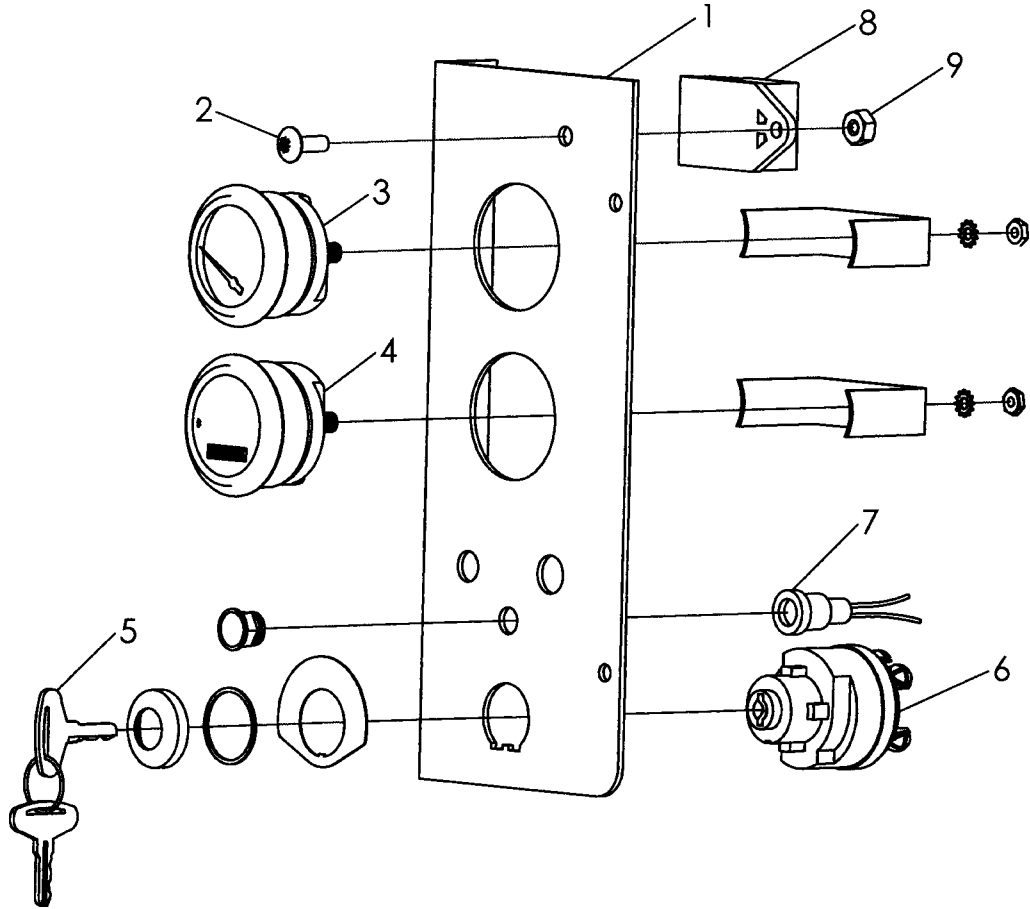
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red

KUBOTA ENGINE DC GAUGE PANEL ASSEMBLY



KUBOTA ENGINE DC GAUGE PANEL ASSEMBLY

C-11B

NO	REQ'D	PART NO	DESCRIPTION
1	1	680123*	KUBOTA DC GAUGE PANEL
2	1	041078	1/4 - 20 NC X 1/2 TRUSS HEAD SCREW
3	1	340413	VOLT METER
4	1	340014	HOUR METER, 12 VOLT
5	1	920474	IGNITION KEY (KUBOTA)
6	1	920475	KUBOTA KEY SWITCH W/2 KEYS
7	1	@@@	GLOW PLUG LAMP (KUBOTA)
8	1	@@@	GLOW LAMP TIMER (KUBOTA)
9	1	044021	1/4 - 20 NC KEPS NUT

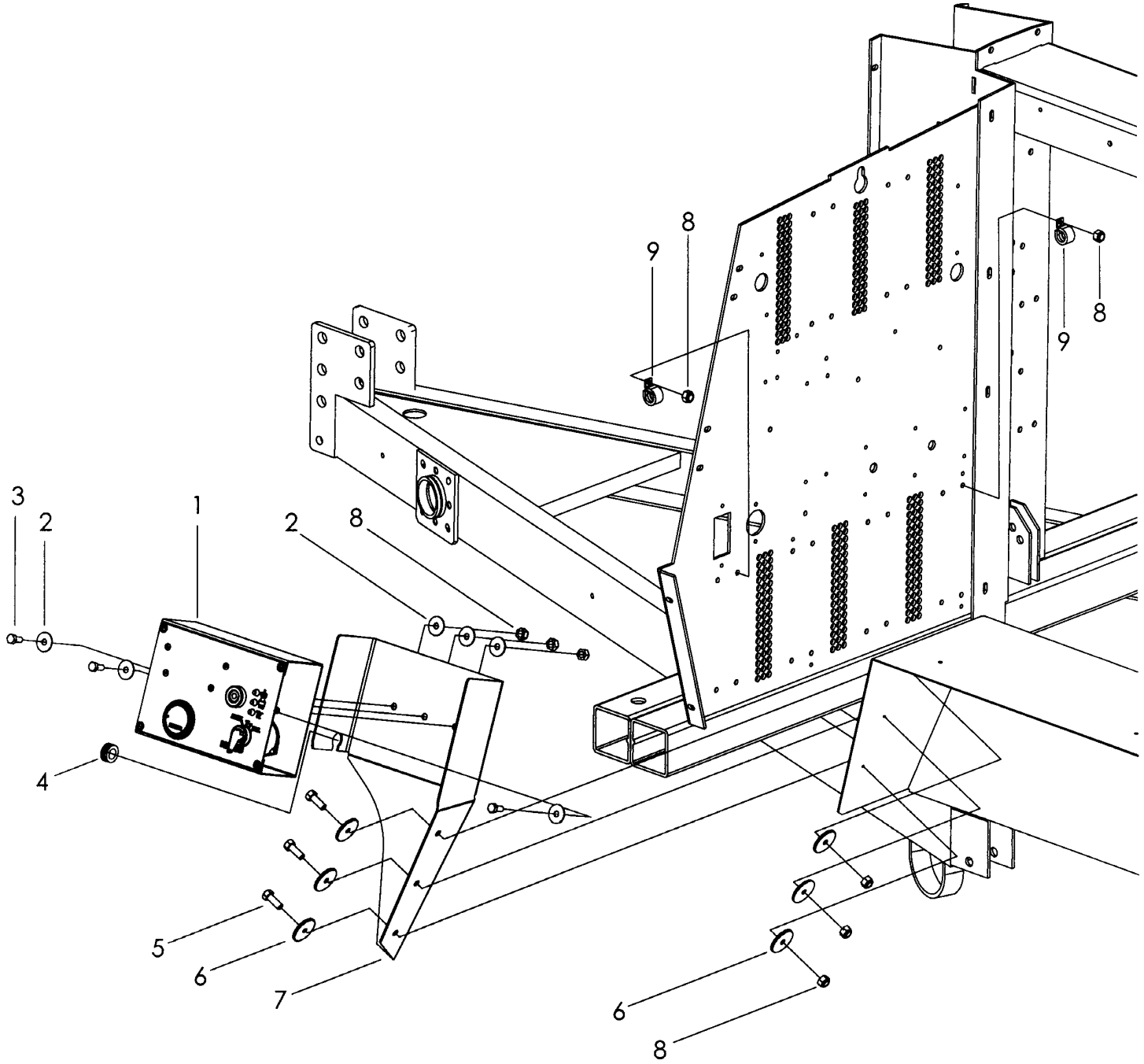
@@@ = See local Kubota Dealer

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



ISUZU ENGINE DC GAUGE PANEL ASSEMBLY

C-11D

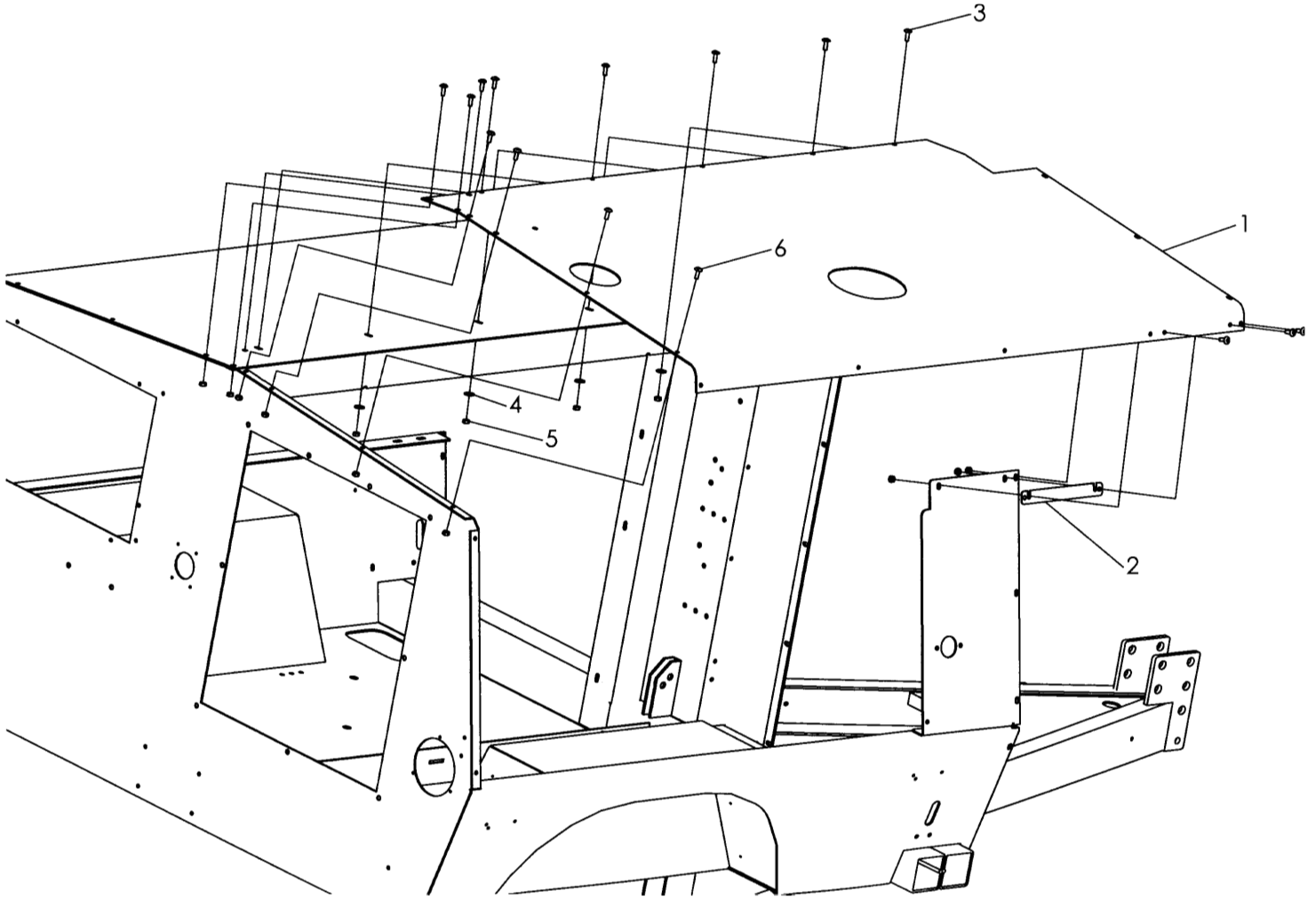
NO	REQ'D	PART NO	DESCRIPTION
1	1	CF	ISUZU CONTROL BOX
		922004	IGNITION SWITCH KIT ISUZU
		340014	HOUR METER
		800233	ISUZU CONTROL BOX COVER
		921433	RESISTANCE CONTROL
	2	921434	PILOT LAMP RED
	1	921435	PILOT LAMP AMBER
2	6	047010	5/16 FLAT WASHER
3	3	046045	5/16-18 MC X 3/4 GRADE 5 BOLT
4	1	711028	7/8 GROMMET
5	3	046050	5/16-18 NC X 1 GRADE 5 BOLT
6	6	650260	2" O.D. X .451 I.D. WASHER
7	1	680266	ISUZU CONTROL BOX COVER
8	8	044033	5/16-18 NC NYLON INSERT NUT
9	2	310212	5/8 CUSHION CLAMP

CF = Contact Allmand for Further Info

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:
01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



RIGHT ROOF PANEL ASSEMBLY

C-12B

NO	REQ'D	PART NO	DESCRIPTION
1	1	680271*	RIGHT ROOF PANEL (Isuzu 4LE)
		680255*	RIGHT ROOF PANEL (Kubota 2003T)
		680327*	RIGHT ROOF PANEL (Kubota 2203/1903)
		680498*	RIGHT ROOF PANEL (Hydraulic Tower)
2	1	680341	ROOF PANEL SHIM
3	11	041050	1/4 - 20 NC X 3/4 TRUSS HEAD SCREW
4	5	047009	1/4 FLAT WASHER
5	15	044023	1/4-20 NC NYLON INSERT NUT
6	4	041078	1/4 - 20 NC X 1/2TRUSS HEAD SCREW

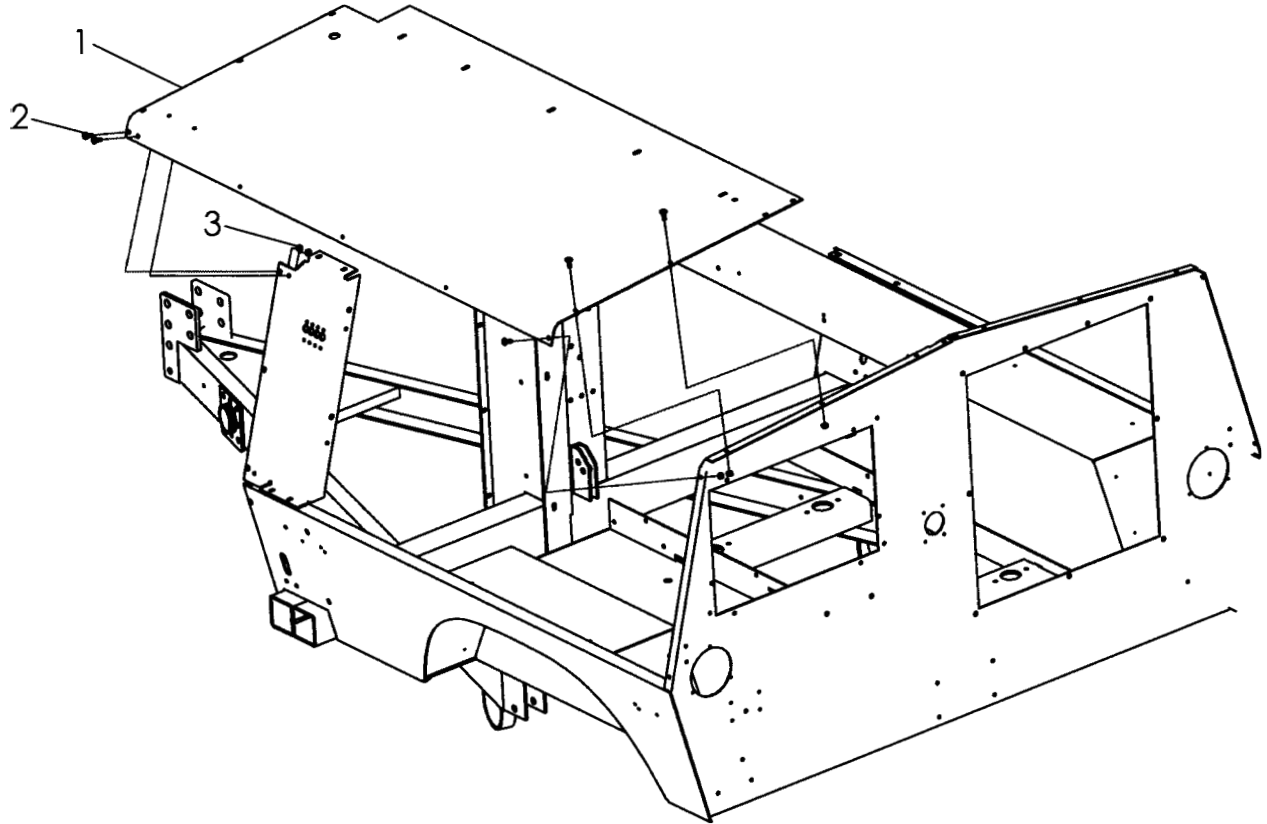
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



LEFT ROOF PANEL ASSEMBLY

C-12D

NO	REQ'D	PART NO	DESCRIPTION
1	1	680106*	LEFT ROOF PANEL
		652372*	LEFT ROOF PANEL (Hydraulic Tower)
2	5	041078	1/4 - 20 NC X 1/2 TRUSS HEAD SCREW
3	5	044023	1/4-20 NC NYLON INSERT NUT

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

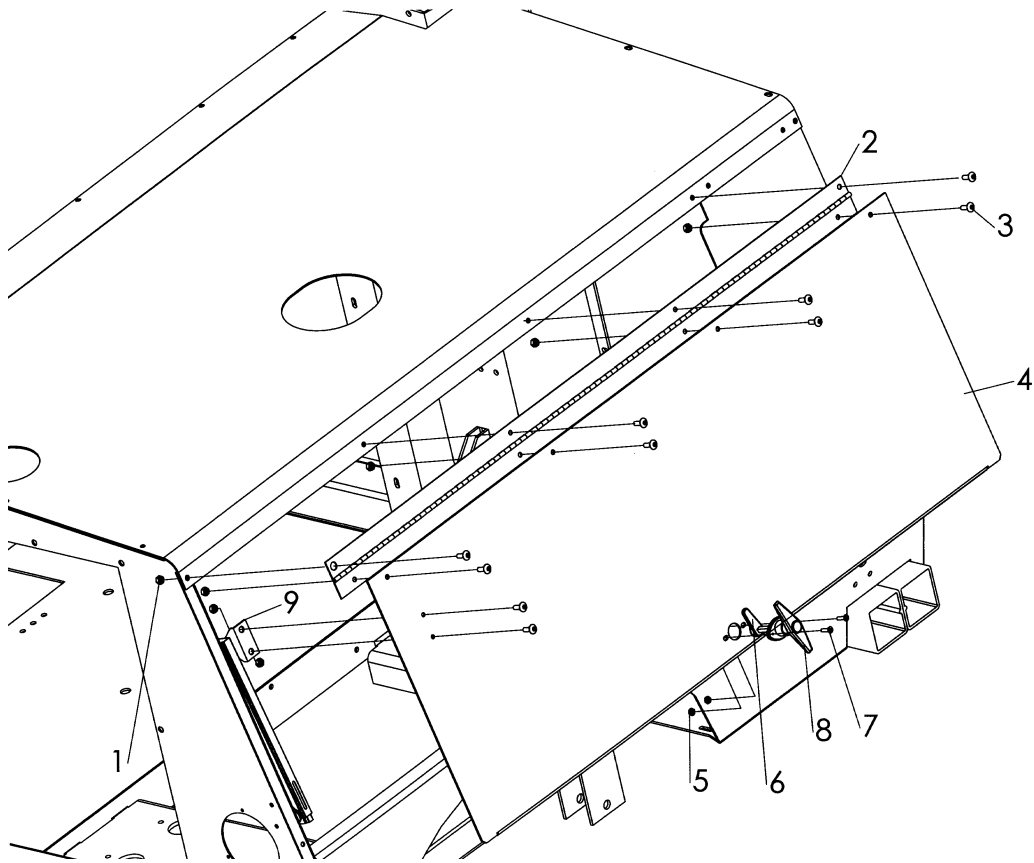
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04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red

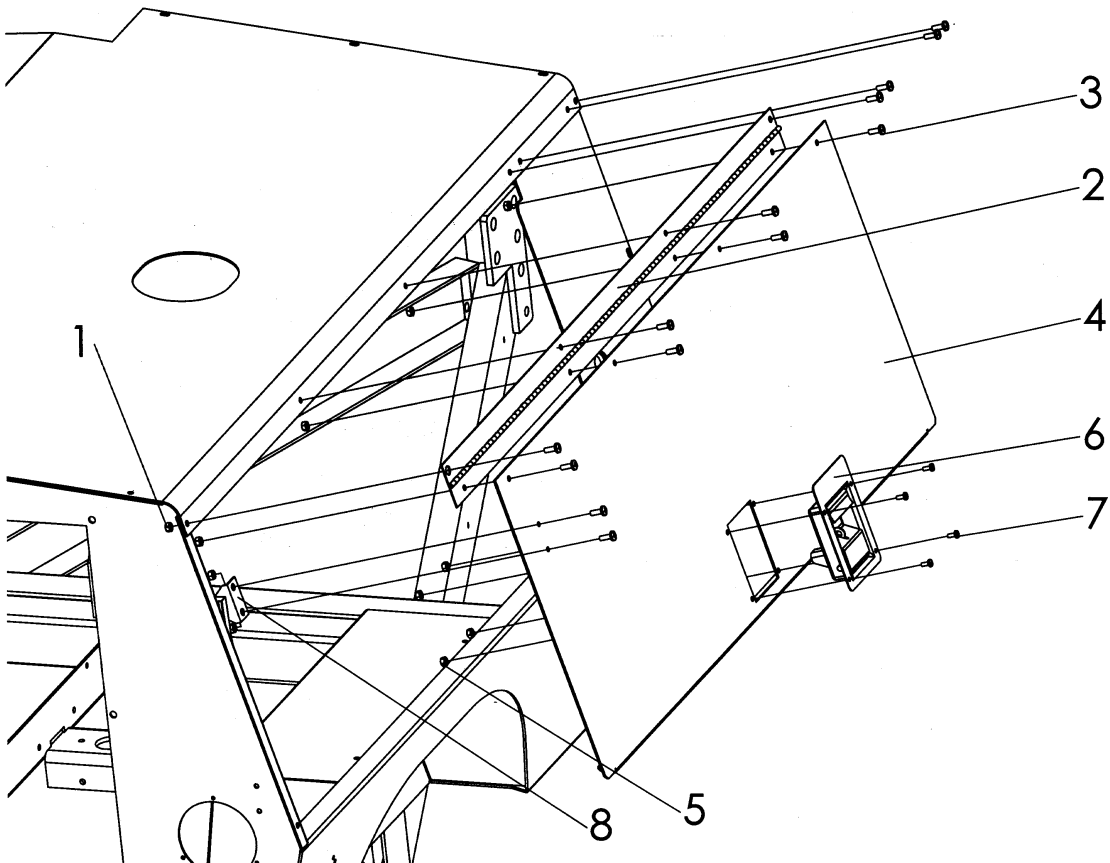
C-13A

RIGHT DOOR PANEL ASSEMBLY



C-13A2

RIGHT DOOR PANEL ASSEMBLY (SLAM LATCH MODEL)



RIGHT DOOR PANEL ASSEMBLY**C-13B**

NO	REQ'D	PART NO	DESCRIPTION
1	13	044023	1/4 - 20 NC NYLON INSERT NUT
2	1	680258	DOOR HINGE
3	13	041047	1/4 - 20 NC X 3/4 SCREW
4	1	680109*	RIGHT DOOR PANEL
NS	1	680114*	LEFT DOOR PANEL
5	4	044016	#10 - 24 NC KEPS NUT
6	2	650132	LATCH CAM, W/SQUARE HEAD SET SCREW
7	4	041026	#10 - 24 NC X 3/4 FLAT HEAD SCREW
8	2	650131	LOCKING T-HANDLE
9	2	352057	TELESCOPIC PROP

RIGHT DOOR PANEL ASSEMBLY(SLAM LATCH MODEL)
(After S/N 0023MXL04)
C-13B2

NO	REQ'D	PART NO	DESCRIPTION
1	13	044023	1/4 - 20 NC NYLON INSERT NUT
2	1	680258	DOOR HINGE
3	13	041047	1/4 - 20 NC X 3/4 SCREW
4	1	680443*	RIGHT SLAM LATCH DOOR PANEL
5	4	044016	#10 - 24 NC KEPS NUT
6	1	680459	SLAM LATCH
NS	1	680470	STRIKER
7	4	041026	#10 - 24 NC X 3/4 FLAT HEAD SCREW
8	2	352057	TELESCOPIC PROP
NS		680471	SLAM LATCH RETRO KIT

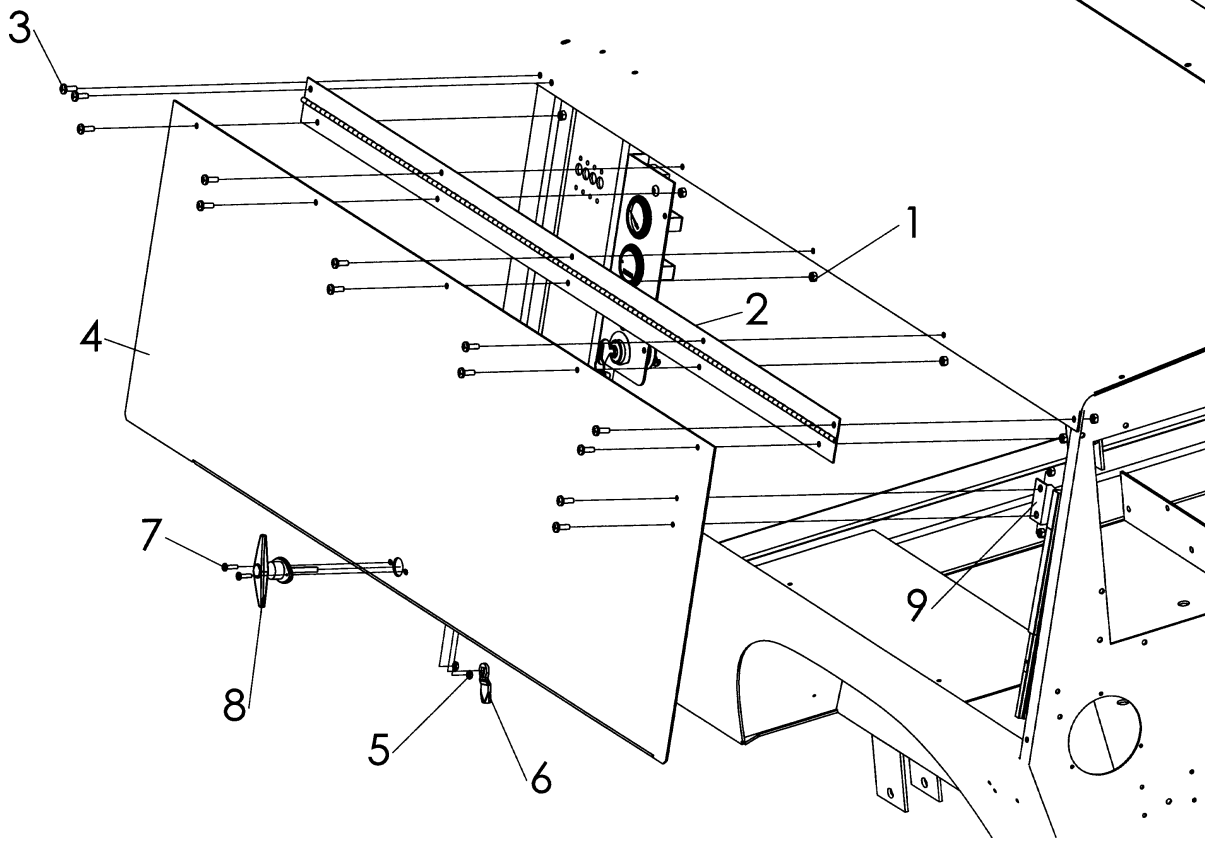
LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:
 01-White 02-Gloss Black
 04-Allmand Yellow 05-Orange
 09-Flat Black 10-High temp Black

03-Gray
 06-Allmand Gold
 11-Red

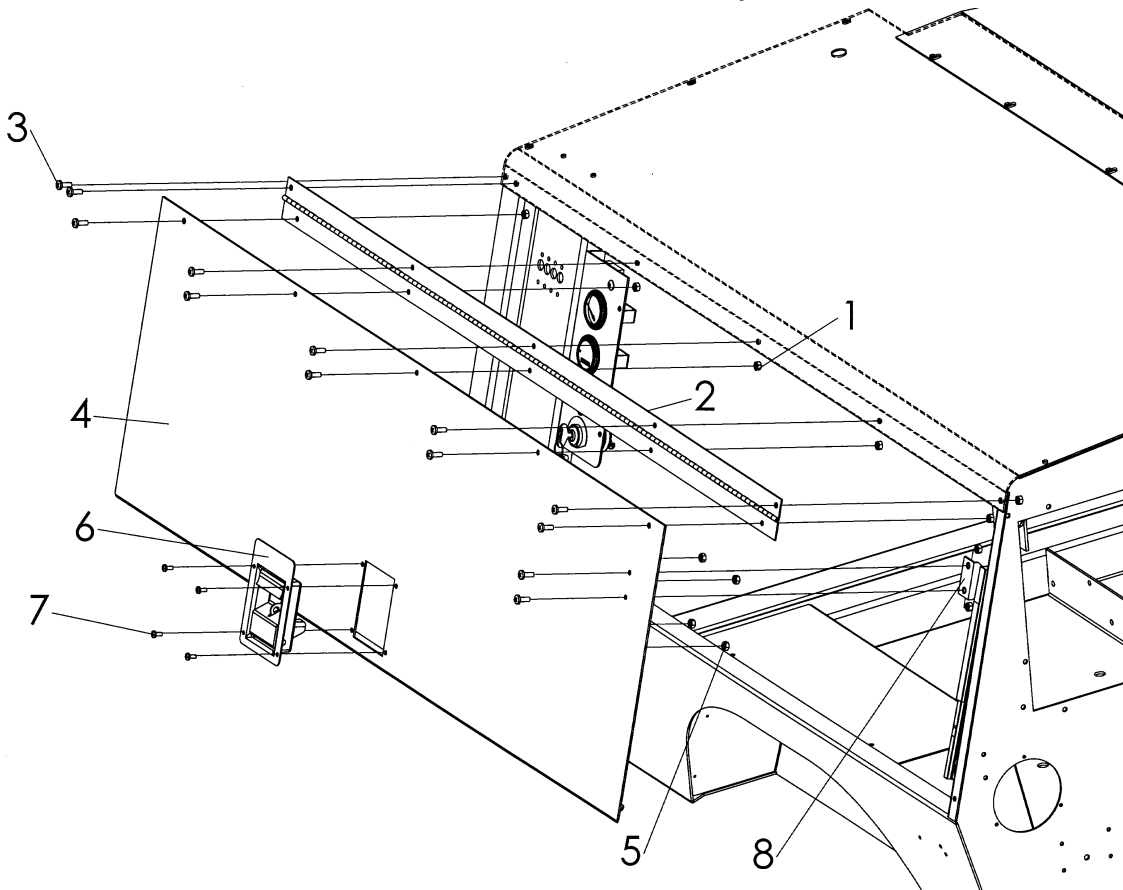
C-13C

LEFT DOOR PANEL ASSEMBLY



C-13C2

LEFT DOOR PANEL ASSEMBLY (SLAM LATCH MODEL)



LEFT DOOR PANEL ASSEMBLY

C-13D

NO	REQ'D	PART NO	DESCRIPTION
1	13	044023	1/4 - 20 NC NYLON INSERT NUT
2	1	352023	DOOR HINGE
3	13	041047	1/4 - 20 NC X 3/4 SCREW
4	1	680114*	LEFT DOOR PANEL
5	2	044016	#10 - 24 NC KEPS NUT
6	1	650132	LATCH CAM
7	2	041026	#10 - 24 NC X 3/4 FLAT HEAD SCREW
8	1	650131	LOCKING T-HANDLE
9	1	352057	TELESCOPIC PROP

LEFT DOOR PANEL ASSEMBLY(SLAM LATCH MODEL) (After S/N 0023MXL04)

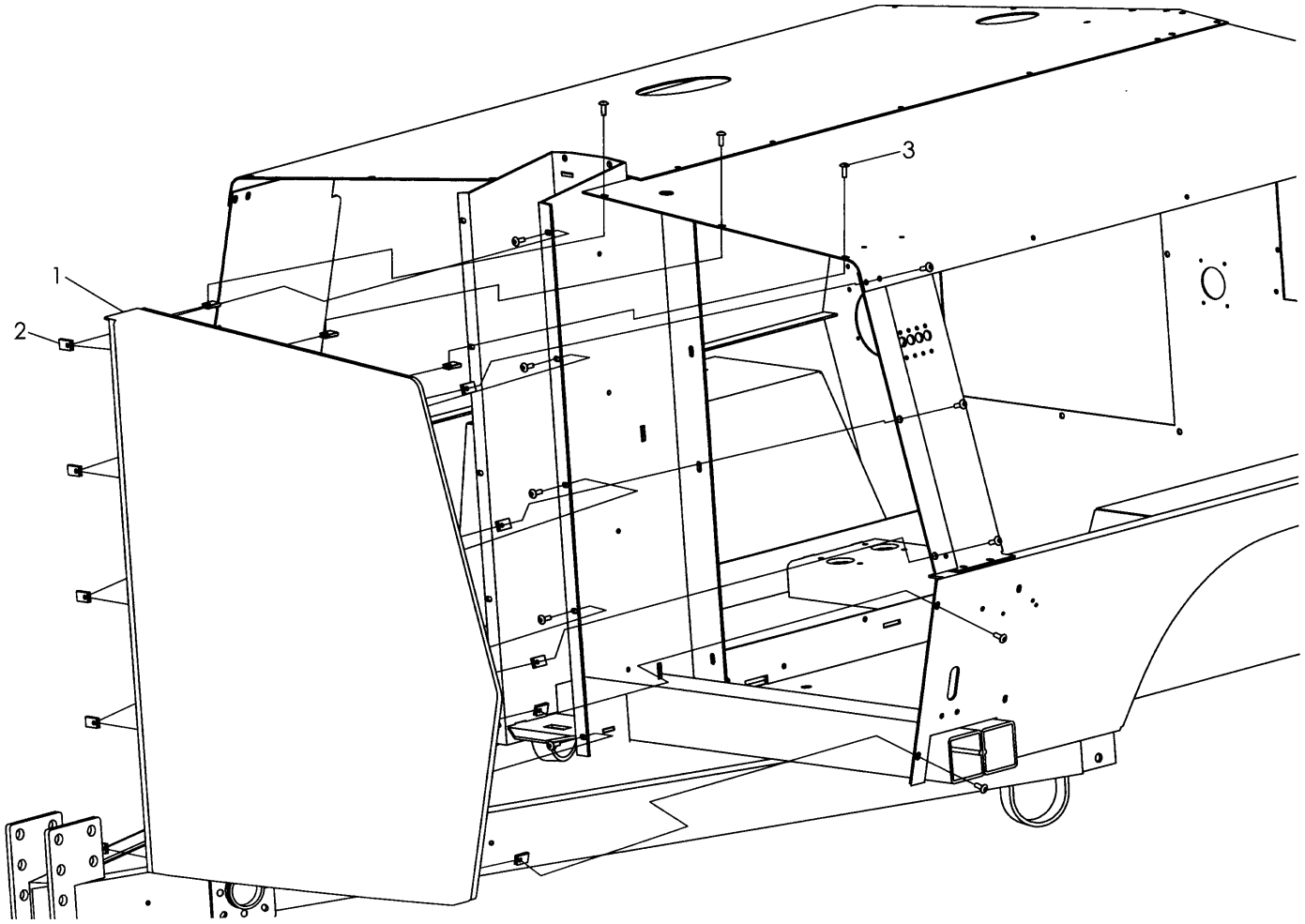
C-13D2

NO	REQ'D	PART NO	DESCRIPTION
1	13	044023	1/4 - 20 NC NYLON INSERT NUT
2	1	680258	DOOR HINGE
3	13	041047	1/4 - 20 NC X 3/4 SCREW
4	1	680444*	LEFT SLAM LATCH DOOR PANEL
5	4	044016	#10 - 24 NC KEPS NUT
6	1	680459	SLAM LATCH
NS	1	680470	STRIKER
7	4	041026	#10 - 24 NC X 3/4 FLAT HEAD SCREW
8	2	352057	TELESCOPIC PROP
NS		680471	SLAM LATCH RETRO KIT

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:
01-White
02-Gloss Black
03-Gray
04-Allmand Yellow
05-Orange
06-Allmand Gold
09-Flat Black
10-High temp Black
11-Red

LEFT FRONT PANEL ASSEMBLY



LEFT FRONT PANEL ASSEMBLY

C-14B

NO	REQ'D	PART NO	DESCRIPTION
1	1	680104-09	LEFT FRONT ABS PANEL (BLACK)
	1	680441*	LEFT FRONT PANEL (METAL)
2	13	045216	TINNERMAN FASTENER
3	13	041078	1/4 - 20 NC X 1/2" TRUSS HEAD SCREW

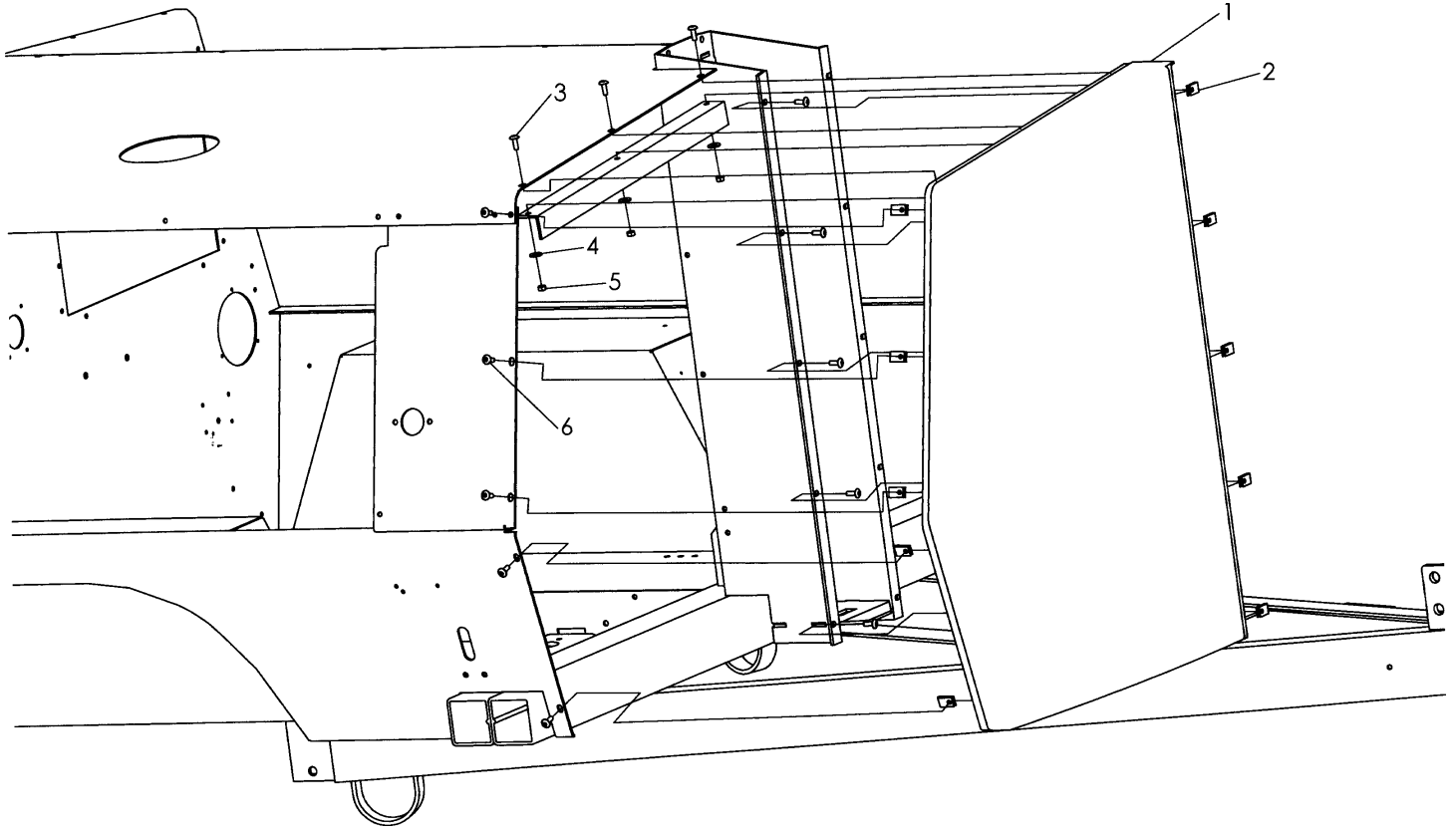
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red

RIGHT FRONT PANEL ASSEMBLY



RIGHT FRONT PANEL ASSEMBLY

C-14D

NO	REQ'D	PART NO	DESCRIPTION
1	1	680103-09	RIGHT FRONT ABS PANEL (BLACK)
	1	680440*	RIGHT FRONT PANEL (METAL)
2	10	045216	TINNERMAN FASTENER
3	4	041050	1/4 - 20 NC X 3/4" TRUSS HEAD SCREW
4	3	044005	1/4" FLAT WASHER
5	3	044023	1/4 - 20 NC NYLON INSERT NUT
6	9	041078	1/4 - 20 NC X 3/4" TRUSS HEAD SCREW

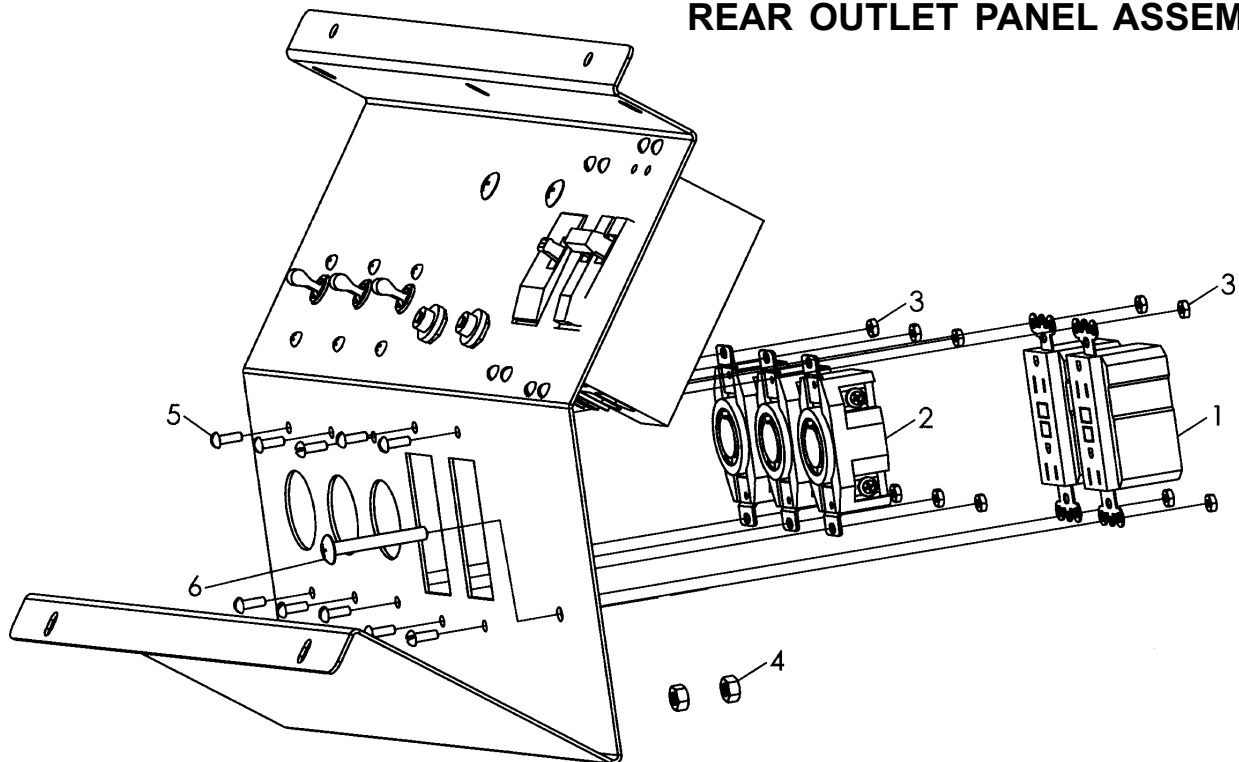
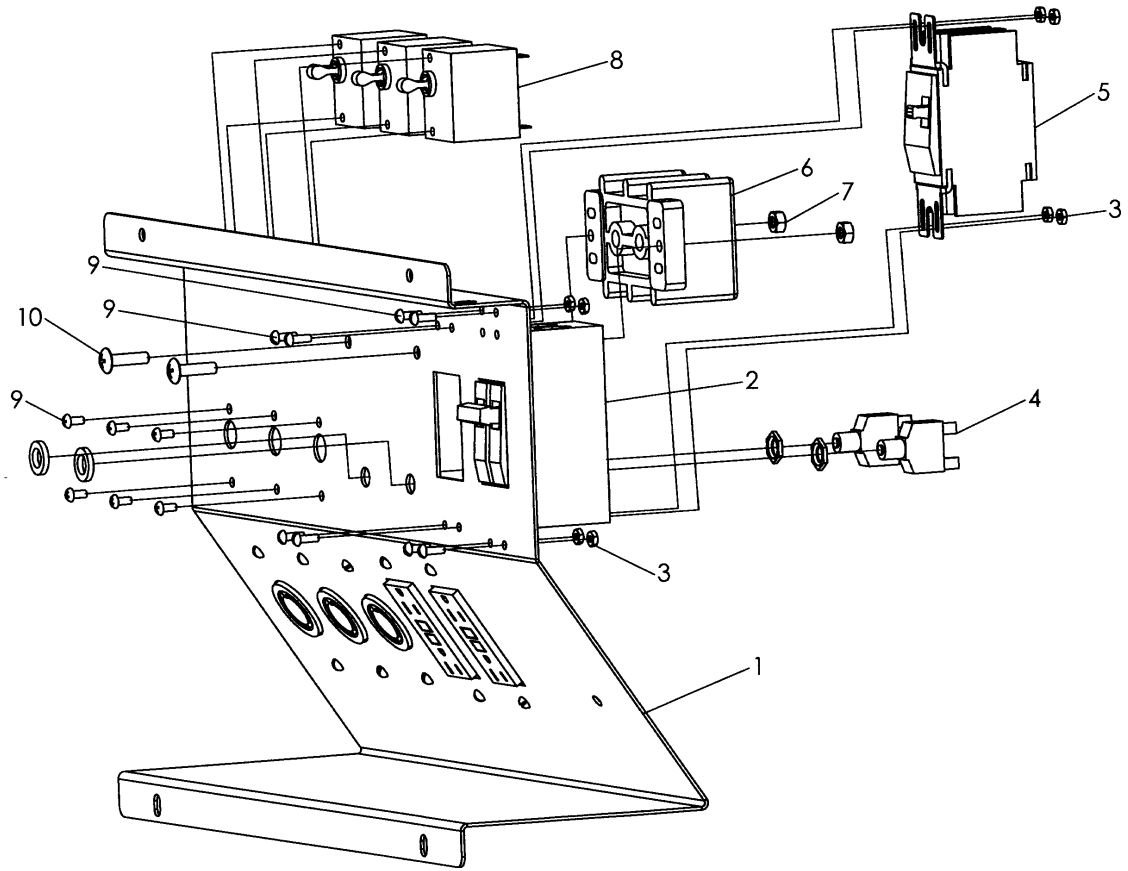
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



REAR OUTLET PANEL ASSEMBLY**C-16B**

NO	REQ'D	PART NO	DESCRIPTION
1	1	680277	OUTLET PANEL
2	1	353300	100 AMP 2 POLE BREAKER (20 KW)
	1	353280	70 AMP 2 POLE BREAKER (15 KW)
3	8	044003	#8-32 NC KEPS NUT
4	2	650138	20 AMP CIRCUIT BREAKER
5	1	352175	50 AMP CIRCUIT BREAKER
6	1	350360	POWER DISTRIBUTION BLOCK
7	2	044021	1/4-20 NC KEPS NUT
8	3	330456	30 AMP DOUBLE POLE SWITCH
9	14	041013	#8-32 NC X 1/2 MACHINE SCREW
10	2	041080	1/4 - 20 NC X 1 TRUSS HEAD SCREW
NS	1	680367	75/100 CIRCUIT BREAKER HOLE COVER (NON-CSA ONLY)

REAR OUTLET PANEL ASSEMBLY**C-16B2**

NO	REQ'D	PART NO	DESCRIPTION
1	2	330499	20 AMP GFCI RECEPTACLE
2	3	653102	240 VOLT TWISTLOCK RECEPTACLE
3	10	044003	#8-32 NC KEPS NUT
4	2	044021	1/4-20 NC KEPS NUT
5	10	041023	#8-32 NC X 1/2 ROUND HEAD SCREW
6	1	041053	1/4 - 20 NC X 1-3/4 TRUSS HEAD SCREW

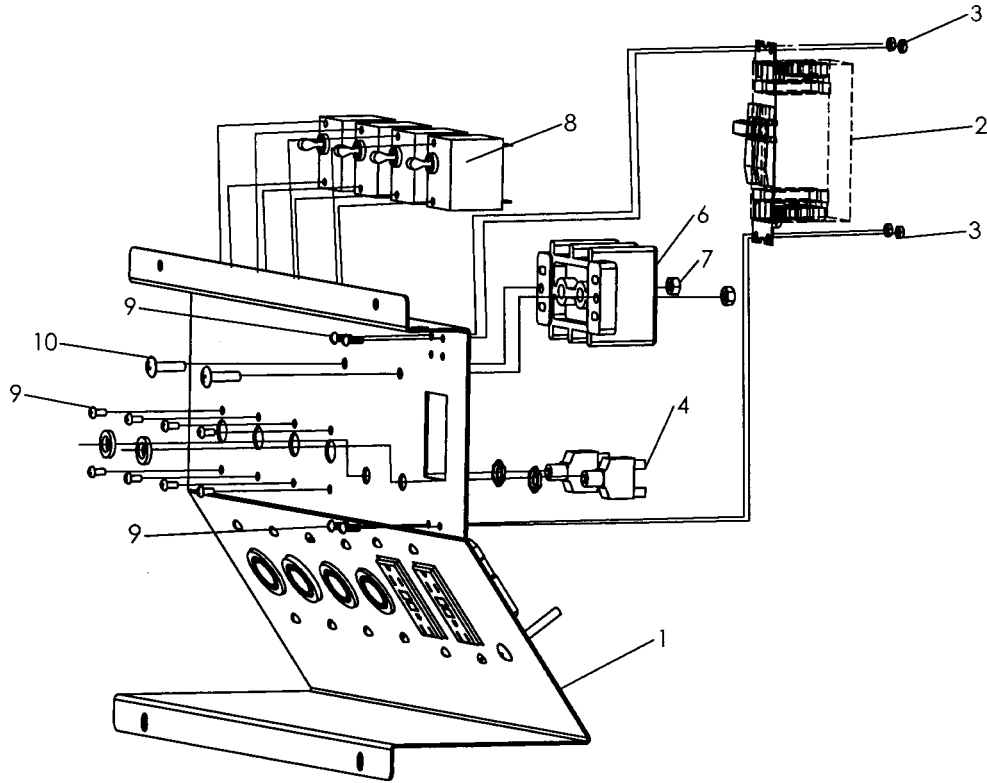
LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

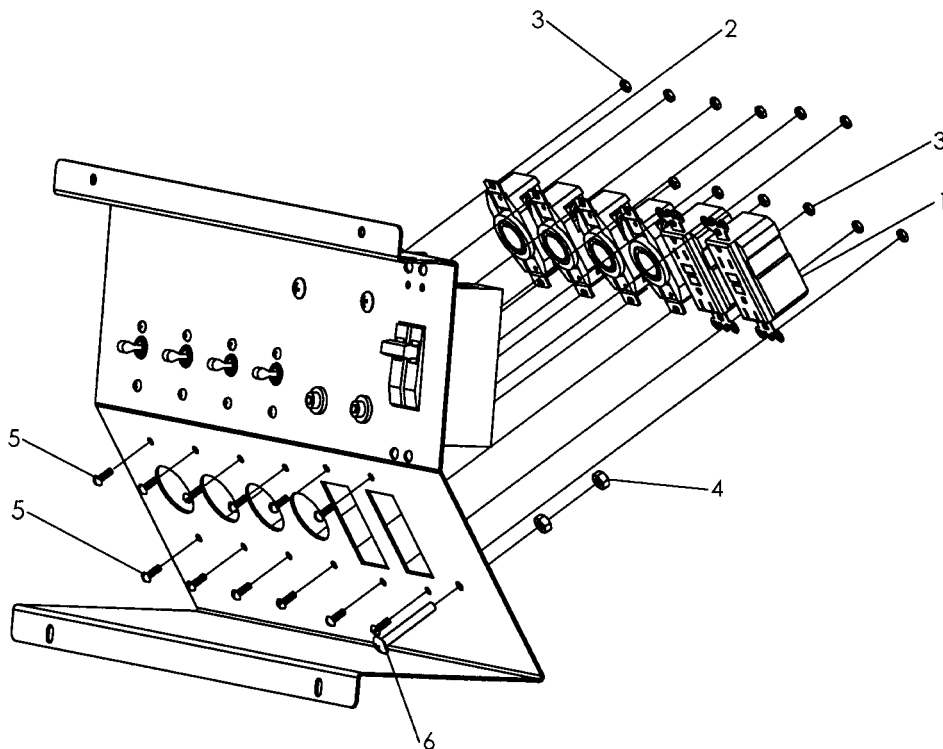
C-16A3

REAR OUTLET PANEL ASSEMBLY (CANADIAN)



C-16A4

REAR OUTLET PANEL ASSEMBLY (CANADIAN)



REAR OUTLET PANEL ASSEMBLY (CANADIAN)**C-16B3**

NO	REQ'D	PART NO	DESCRIPTION
1	1	680442	OUTLET PANEL WITH 4-30 AMP RECEPTACLES
2	1	353301	90 AMP 2 POLE BREAKER (20 KW)
	1	353280	70 AMP 2 POLE BREAKER (15 KW)
3	4	044003	#8-32 NC KEPS NUT
4	2	650138	20 AMP CIRCUIT BREAKER
6	1	350360	POWER DISTRIBUTION BLOCK
7	2	044021	1/4-20 NC KEPS NUT
8	4	330456	30 AMP DOUBLE POLE SWITCH
9	12	041013	#8-32 NC X 1/2 MACHINE SCREW
10	2	041080	1/4 - 20 NC X 1 TRUSS HEAD SCREW

REAR OUTLET PANEL ASSEMBLY (CANADIAN)**C-16B4**

NO	REQ'D	PART NO	DESCRIPTION
1	2	330499	20 AMP GFCI RECEPTACLE
2	4	653102	240 VOLT TWISTLOCK RECEPTACLE
3	12	044003	#8-32 NC KEPS NUT
4	2	044021	1/4-20 NC KEPS NUT
5	12	041023	#8-32 NC X 1/2 ROUND HEAD SCREW
6	1	041053	1/4 - 20 NC X 1-3/4 TRUSS HEAD SCREW

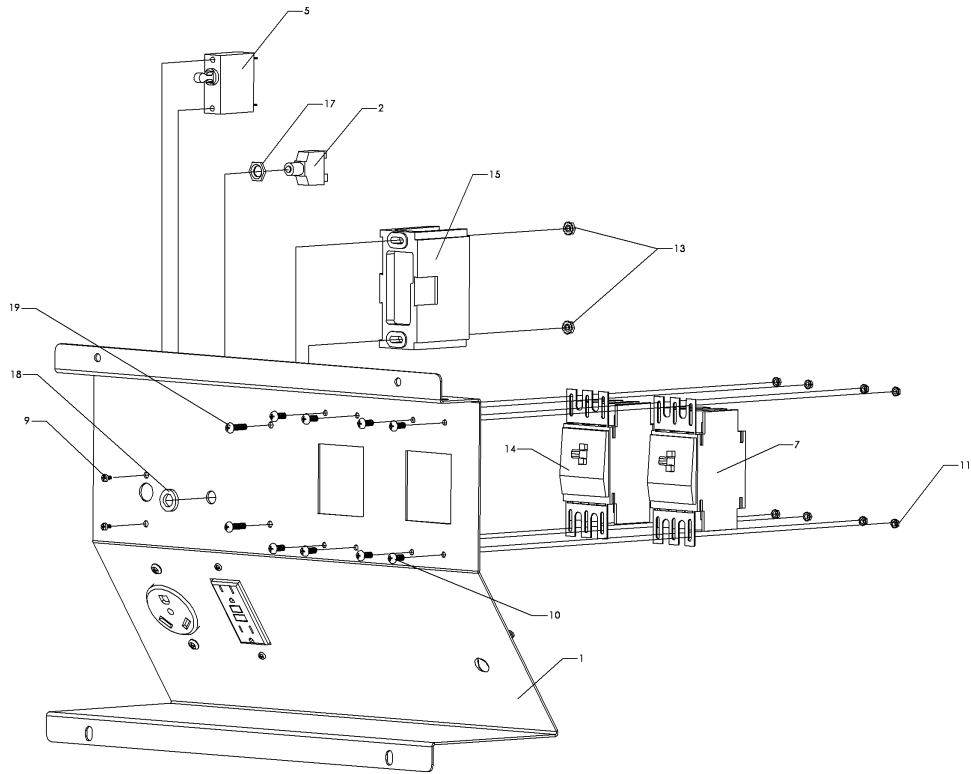
LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

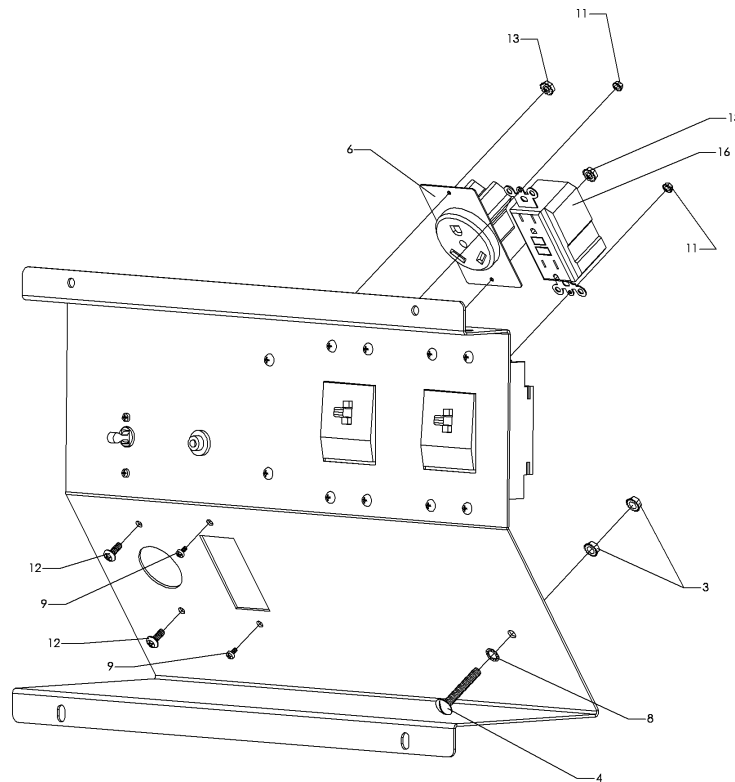
C-16A5

REAR OUTLET PANEL ASSEMBLY (3 PHASE 240 Volt)



C-16A6

REAR OUTLET PANEL ASSEMBLY (3 PHASE 240 Volt)



REAR OUTLET PANEL ASSEMBLY (3 PHASE 240 Volt)**C-16B5**

NO	REQ'D	PART NO	DESCRIPTION
1	1	680869	3 PHASE 240V REAR OUTLET PANEL
2	1	650138	20 A PUSH BUTTON CIRCUIT BREAKER
3	2	044021	1/4-20 NC PLATED KEPS NUT
4	1	041053	1/4 - 20 NC X 1-3/4 PHILLIPS TRUSS HEAD SCREW
5	3	330472	30 AMP SINGLE POLE SWITCH
6	1	680815	125V 30A OUTLET
7	1	022235	60A 3 POLE CIRCUIT BREAKER
8	1	043050	1/4" INTERNAL TOOTH LOCKWASHER
9	4	041018	#6-32 NC X 1/4" PHILLIPS HEAD MACHINE SCREW
10	8	041013	#8-32 NC X 1/2" MACHINE SCREW
11	10	044003	#8-32 NC KEPS NUT
12	2	041021	#10-24 NC X 1/2" ROUND HEAD MACHINE SCREW
13	4	044016	#10-24 NC PLATED KEPS NUT
14	1	022236	50 AMP 3 POLE CIRCUIT BREAKER
15	1	352397	SINGLE POLE POWER DISTRIBUTION BLOCK
16	1	330499	20A GFCI RECEPTACLE
17	1		BACKING NUT(INCLUDED WITH 650138)
18	1		PLASTIC NUT(INCLUDED WITH 650138)
19	2	041027	#10-24 NC X 3/4" PHILLIPS HEAD MACHINE SCREW

REAR OUTLET PANEL ASSEMBLY (3 PHASE 240 Volt)**C-16B6**

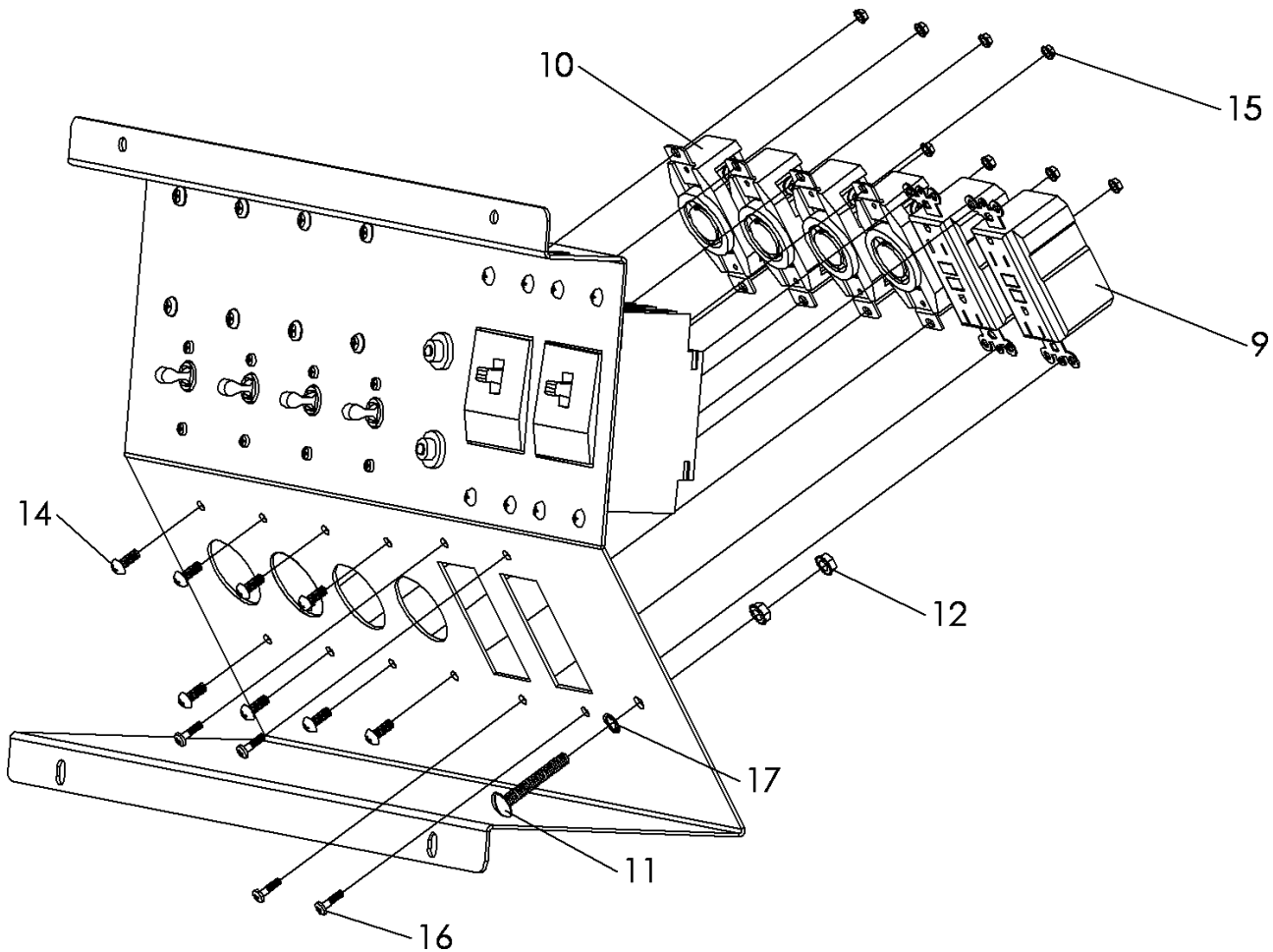
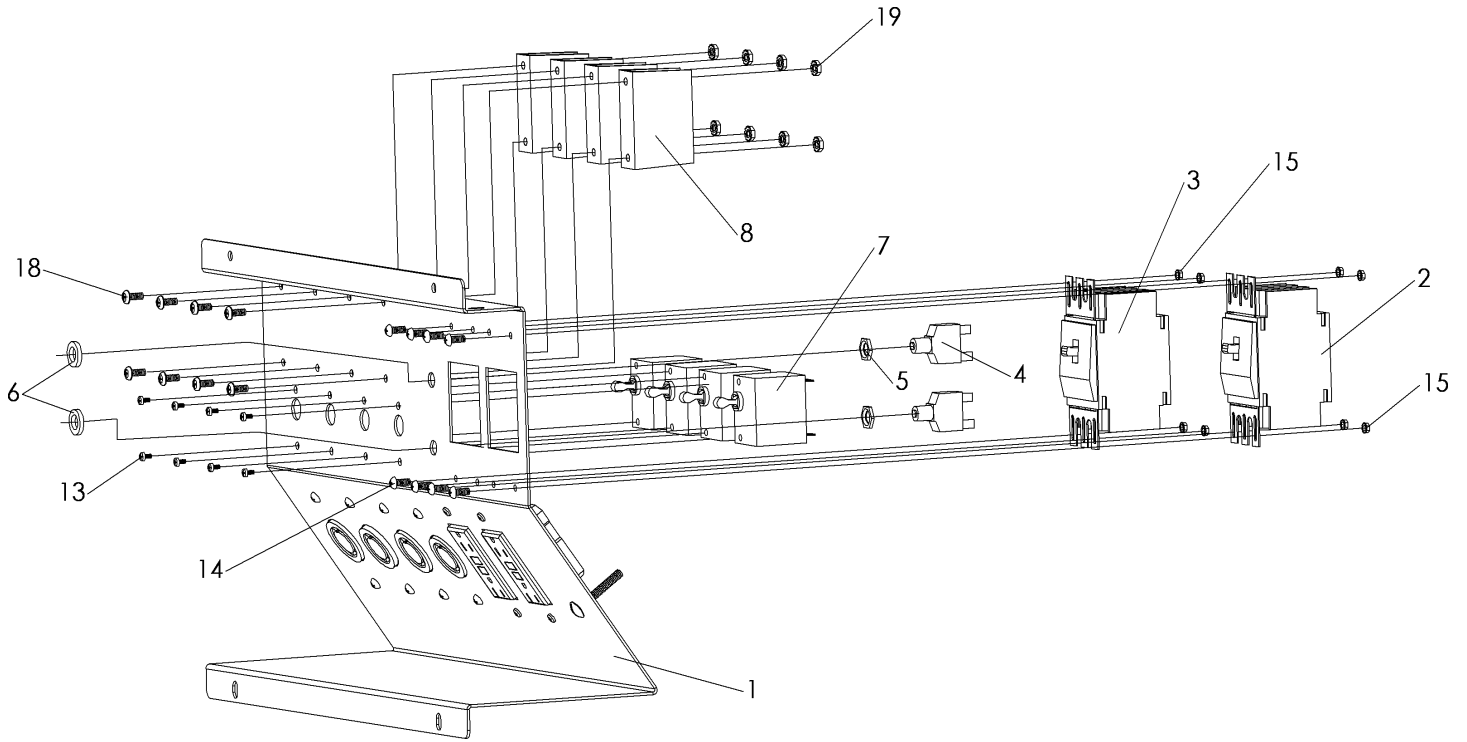
NO	REQ'D	PART NO	DESCRIPTION
1	1	680869	3 PHASE 240V REAR OUTLET PANEL
2	1	650138	20 A PUSH BUTTON CIRCUIT BREAKER
3	2	044021	1/4-20 NC PLATED KEPS NUT
4	1	041053	1/4 - 20 NC X 1-3/4 PHILLIPS TRUSS HEAD SCREW
5	3	330472	30 AMP SINGLE POLE SWITCH
6	1	680815	125V 30A OUTLET
7	1	022235	60A 3 POLE CIRCUIT BREAKER
8	1	043050	1/4" INTERNAL TOOTH LOCKWASHER
9	4	041018	#6-32 NC X 1/4" PHILLIPS HEAD MACHINE SCREW
10	8	041013	#8-32 NC X 1/2" MACHINE SCREW
11	10	044003	#8-32 NC KEPS NUT
12	2	041021	#10-24 NC X 1/2" ROUND HEAD MACHINE SCREW
13	4	044016	#10-24 NC PLATED KEPS NUT
14	1	022236	50 AMP 3 POLE CIRCUIT BREAKER
15	1	352397	SINGLE POLE POWER DISTRIBUTION BLOCK
16	1	330499	20A GFCI RECEPTACLE
17	1		BACKING NUT(INCLUDED WITH 650138)
18	1		PLASTIC NUT(INCLUDED WITH 650138)
19	2	041027	#10-24 NC X 3/4" PHILLIPS HEAD MACHINE SCREW

LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red

REAR OUTLET PANEL ASSEMBLY (3 PHASE 208 Volt)



REAR OUTLET PANEL ASSEMBLY (3 PHASE 208 Volt)

C-16B7

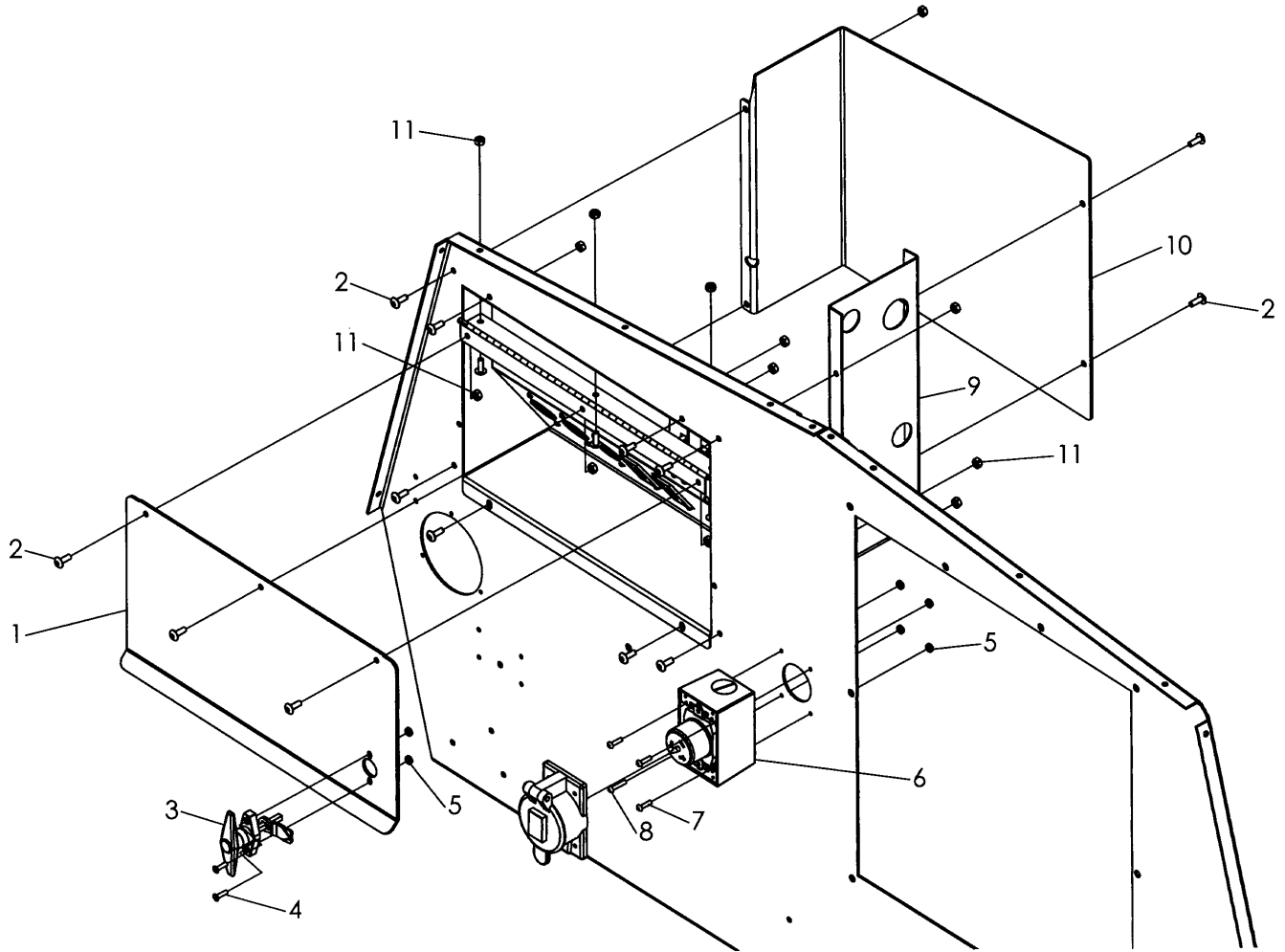
NO	REQ'D	PART NO	DESCRIPTION
1	1	680568	3 PHASE 208V REAR OUTLET PANEL
2	1	022235	60A 3 POLE CIRCUIT BREAKER
3	1	022236	50 AMP 3 POLE CIRCUIT BREAKER
4	2	650138	20 AMP CIRCUIT BREAKER
5	2		BACKING NUT(INCLUDED WITH 650105)
6	2		PLASTIC NUT(INCLUDED WITH 650105)
7	4	330456	30A DPST CIRCUIT BREAKER
8	4	352397	POWER DISTRIBUTION BLOCK
9	2	330499	20 AMP 120V GFCI RECEPTACLE
10	4	653102	30A 125-250V GFCI OUTLET
11	1	041053	1/4 - 20 NC X 1-3/4" PHILLIPS TRUSS HEAD SCREW
12	2	044021	1/4-20 NC PLATED KEPS NUT
13	8	041018	#6-32 NC X 1/4" PHILLIPS HEAD MACHINE SCREW
14	16	041013	#8-32 NC X 1/2" MACHINE SCREW
15	16	044003	#8-32 NC KEPS NUT
16	4		#6-32 NC X 3/4" SCREW (SUPPLIED WITH GFCI)
17	1	043050	1/4" INTERNAL TOOTH LOCKWASHER
18	8	041021	#10-24 NC X 1/2" ROUND HEAD MACHINE SCREW
19	8	044016	#10-24 NC PLATED KEPS NUT

LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:
 01-White
 02-Gloss Black
 04-Allmand Yellow
 05-Orange
 09-Flat Black
 10-High temp Black

03-Gray
 06-Allmand Gold
 11-Red

REAR DOOR AND PANEL ASSEMBLY



REAR DOOR AND PANEL ASSEMBLY

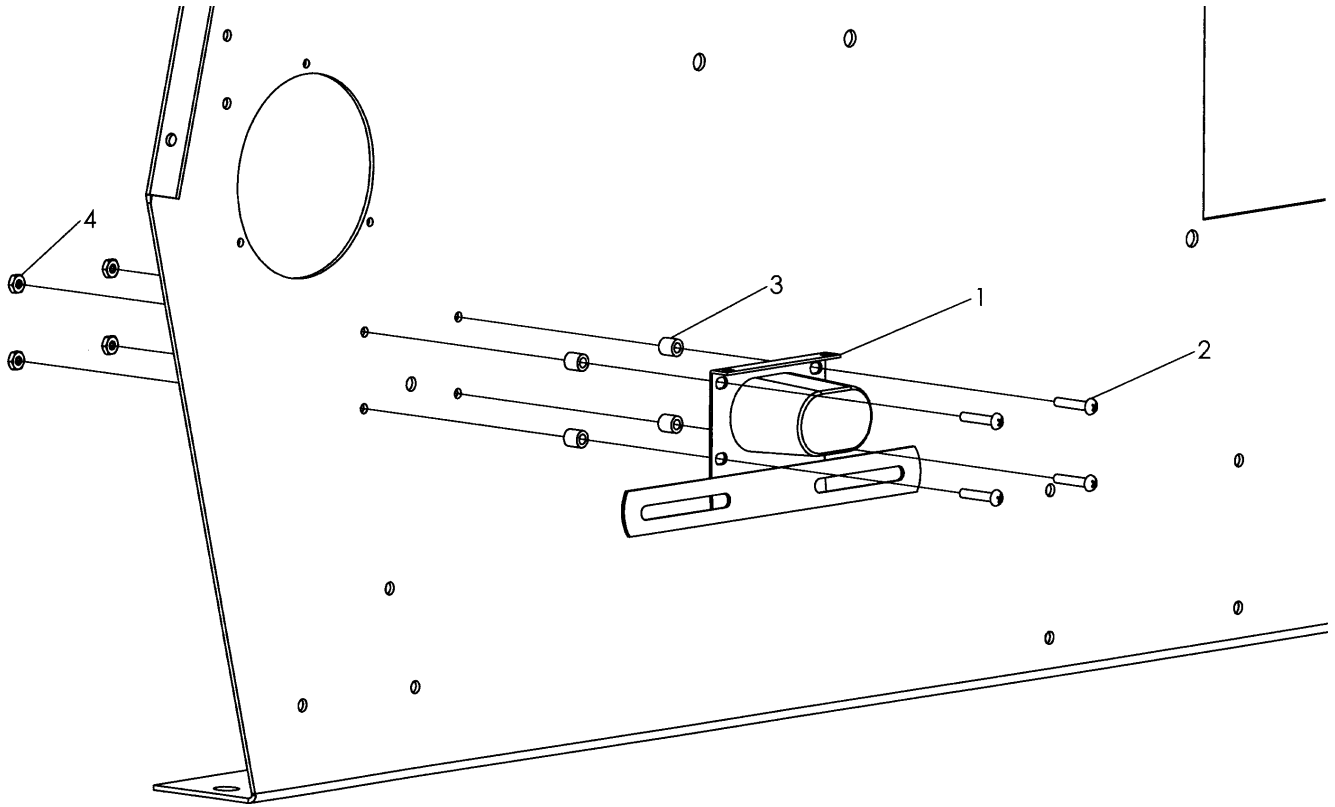
C-17B

NO	REQ'D	PART NO	DESCRIPTION
1	1	680293*	OUTLET DOOR PANEL
2	13	041050	1/4-20 NC X 3/4" TRUSS HEAD SCREW
3	1	650131	T HANDLE ASSEMBLY
4	2	041026	#10 - 24 NC X 3/4 FLAT HEAD SCREW
5	6	044016	#10 - 24 KEPS NUT
6	1	680360	50 AMP REAR OUTLET ASSEMBLY (CSA) (OPTIONAL)
		352171	50 AMP REAR OUTLET ONLY (DOMESTIC) (OPTIONAL)
		352171C	50 AMP REAR OUTLET ONLY (CSA) (OPTIONAL)
7	3	041027	#10 - 24 NC X 3/4 ROUND HEAD SCREW
8	1	041030	#10 - 24 NC X 1" ROUND HEAD SCREW
9	1	680511*	SMALL OUTLET PANEL COVER
10	1	680278*	LARGE OUTLET PANEL COVER
11	11	044021	1/4-20 NC KEPS NUT
12	1	353045	DOOR HINGE
NS	1	680454*	50 AMP OUTLET HOLE COVER PANEL

LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red



LICENSE PLATE HOLDER ASSEMBLY

C-17D

NO	REQ'D	PART NO	DESCRIPTION
1	1	032035	LICENSE PLATE HOLDER
2	4	041030	#10 - 24 NC X 1" MACHINE SCREW
3	4	022180	SPACER
4	4	044016	#10 - 24 KEPS NUT

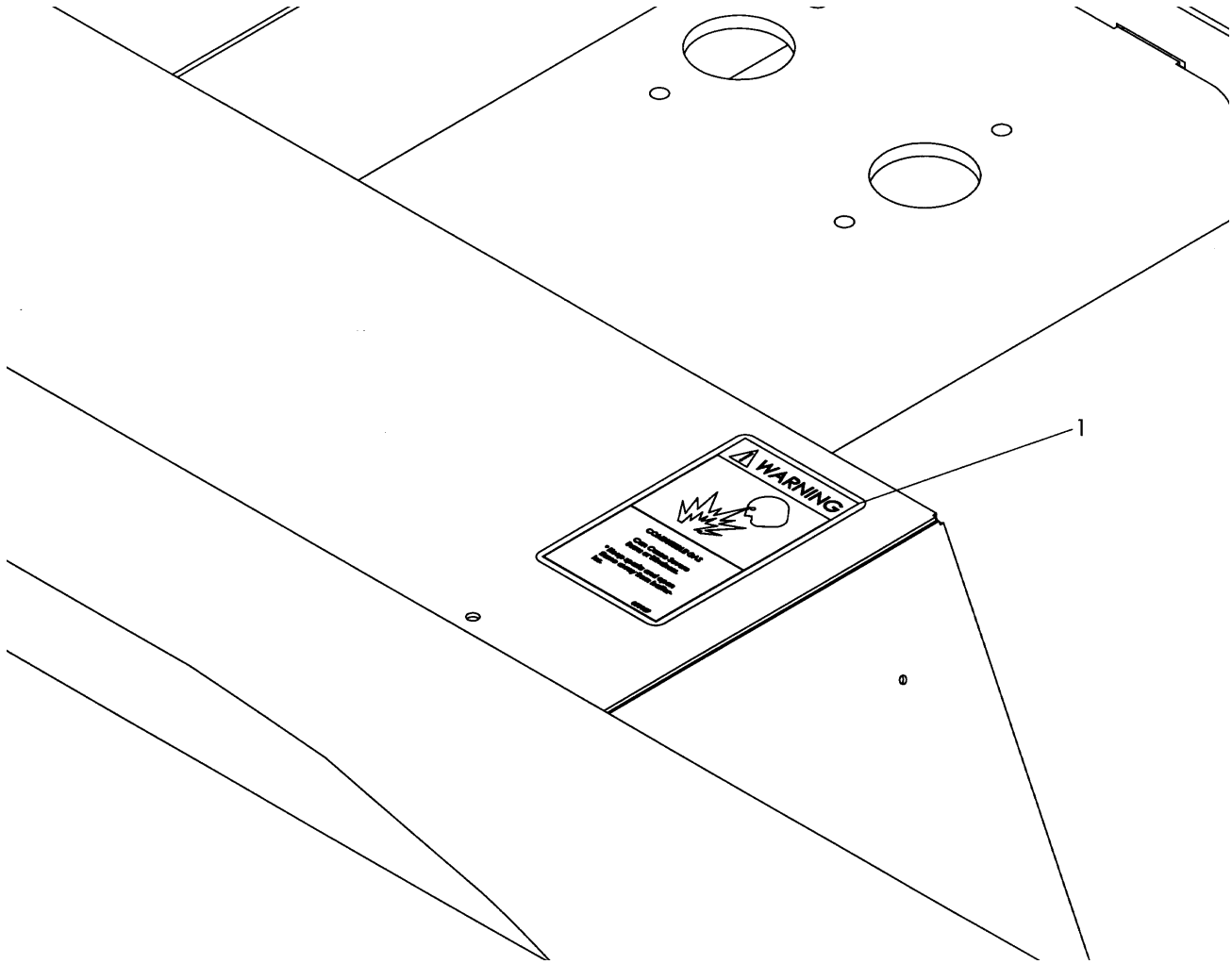
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



DECAL PLACEMENT

D-1B

NO	REQ'D	PART NO	DESCRIPTION
1	1	090159	DECAL-WARNING COMBUSTIBLE GAS

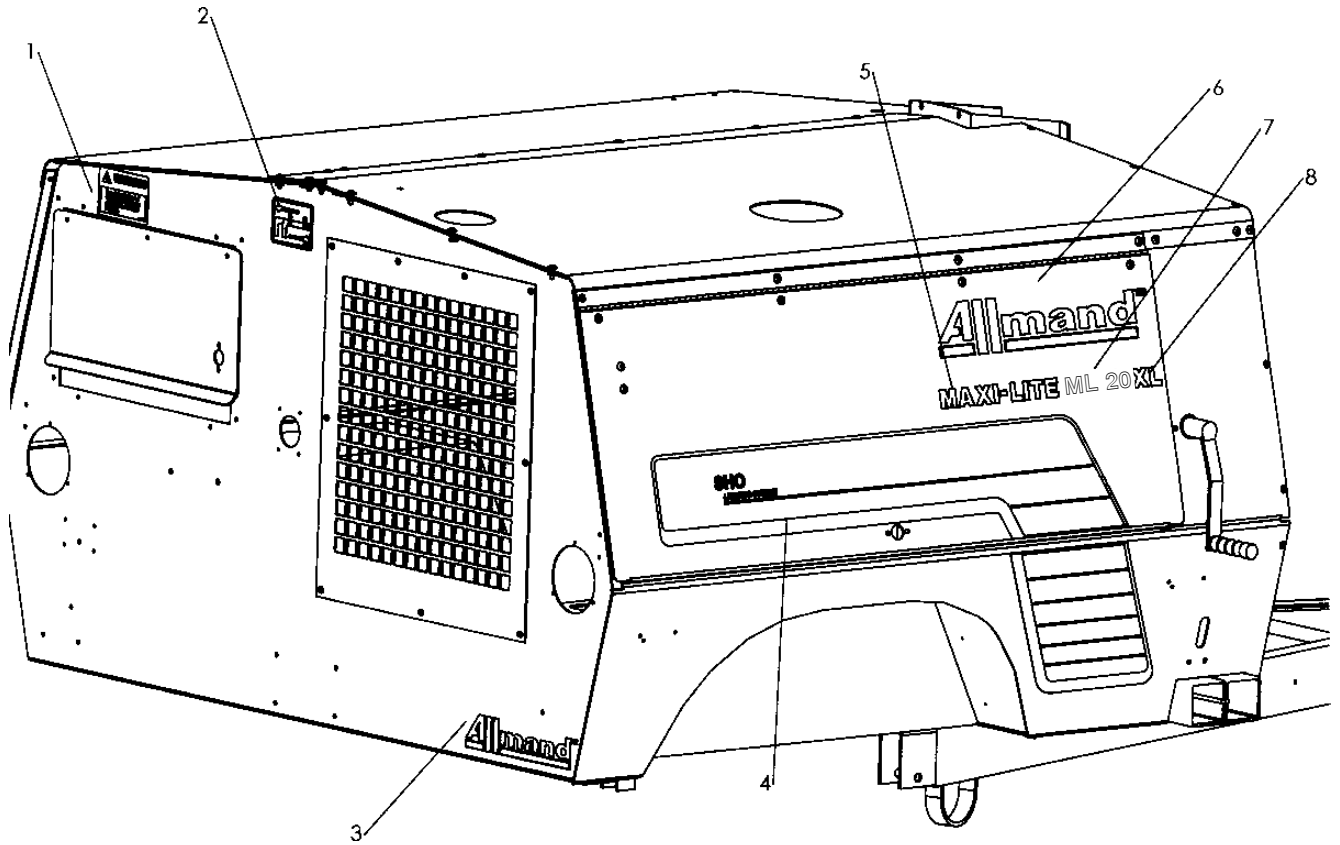
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



DECAL PLACEMENT

D-2B

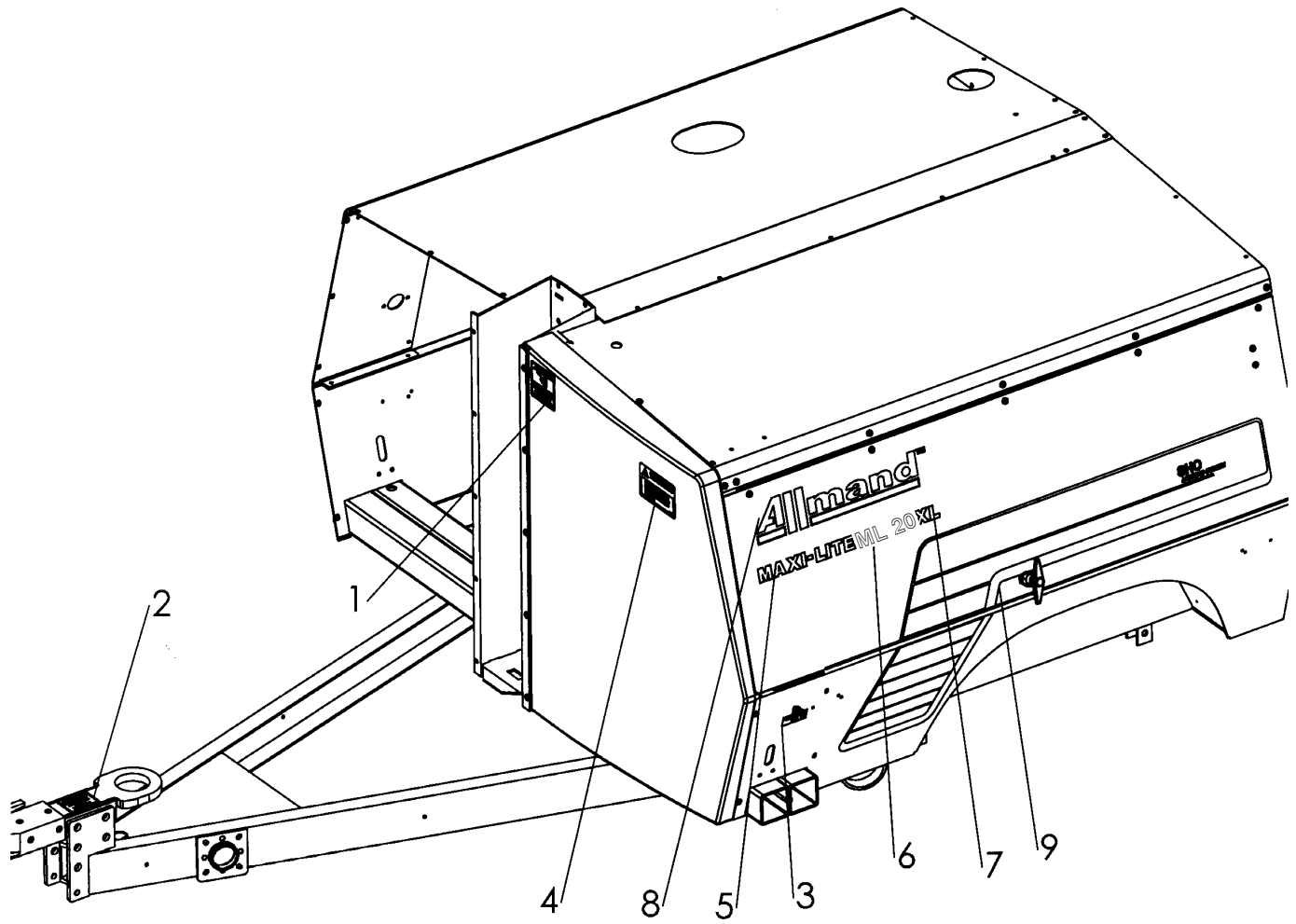
NO	REQ'D	PART NO	DESCRIPTION
1	1	090003	DECAL - DO NOT STAND
2	1	090139	DECAL - UNLATCHED/LATCHED
3	1	090269	DECAL - ALLMAND YELLOW TO ORANGE 11.75"
4	1	352026	DECAL - GRADATION STRIPE SET
5	2	090255	DECAL - MAXI-LITE
6	2	090256	DECAL - ALLMAND, YELLOW TO ORANGE
7	2	090493	DECAL - ML 20
NS		090492	DECAL - ML 15
8	2	090267	DECAL - XL
NS	1	090065	DECAL - ARCTIC SPECIAL
NS	1	090164	DECAL - WARNING NON-VERTICAL
NS	1	090161	DECAL - MOVING PART HAZARD

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



DECAL PLACEMENT

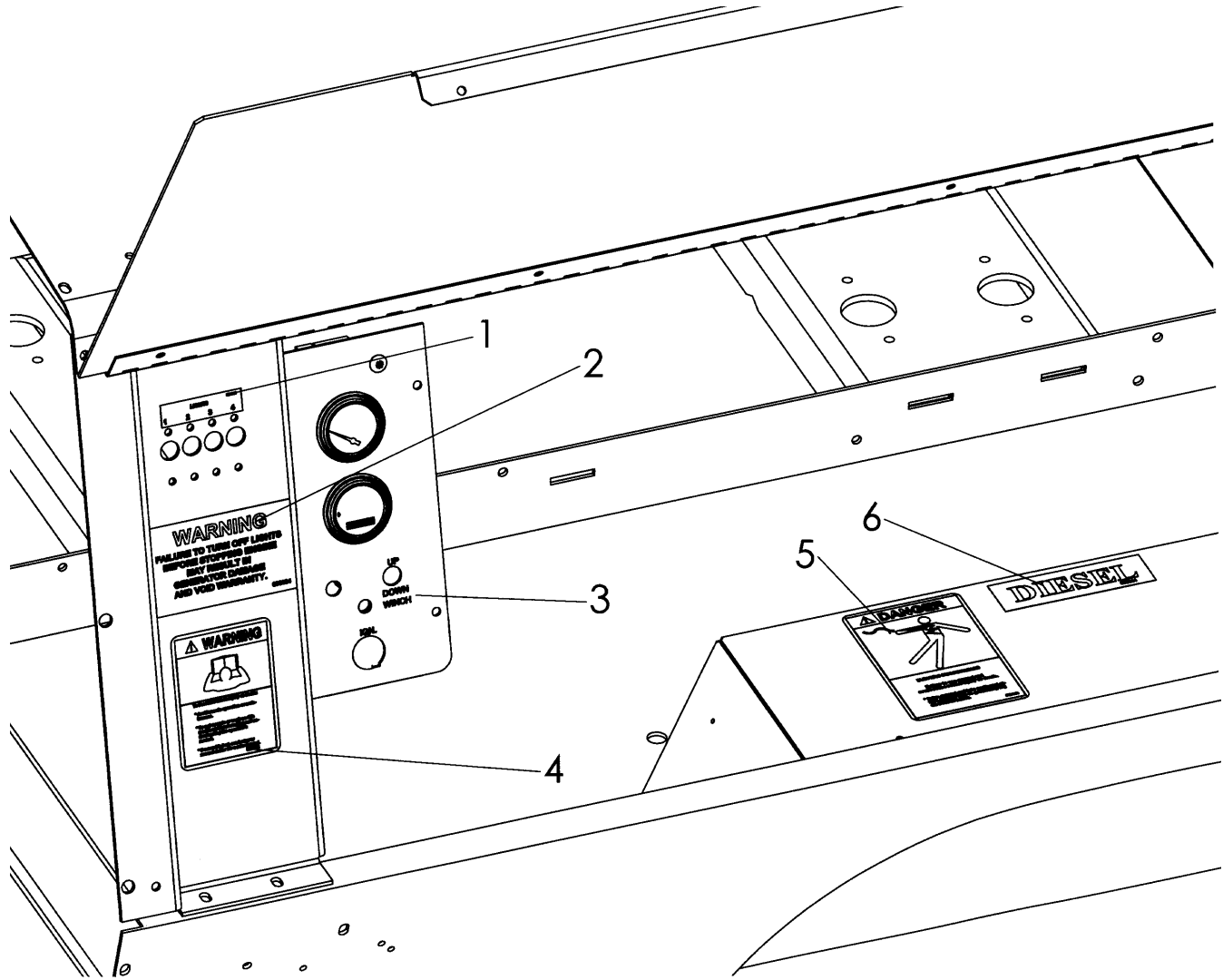
D-3B

NO	REQ'D	PART NO	DESCRIPTION
1	1	090162	DECAL - DANGER HAZARDOUS VOLTAGE
2	1	090160	DECAL - WARNING EXCESSIVE TOW SPEED
3	1	090133	DECAL - GROUND LUG
4	1	090003	DECAL - DO NOT STAND
5	2	090255	DECAL - MAXI-LITE
6	2	090493	DECAL - ML 20
NS		090492	DECAL - ML 15
7	2	090267	DECAL - XL
NS	2	090065	DECAL - ARCTIC SPECIAL
8	2	090256	ALLMAND, YELLOW TO ORANGE DECAL
9	1	352026	DECAL - GRADATION STRIPE SET

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red



DECAL PLACEMENT

D-4B

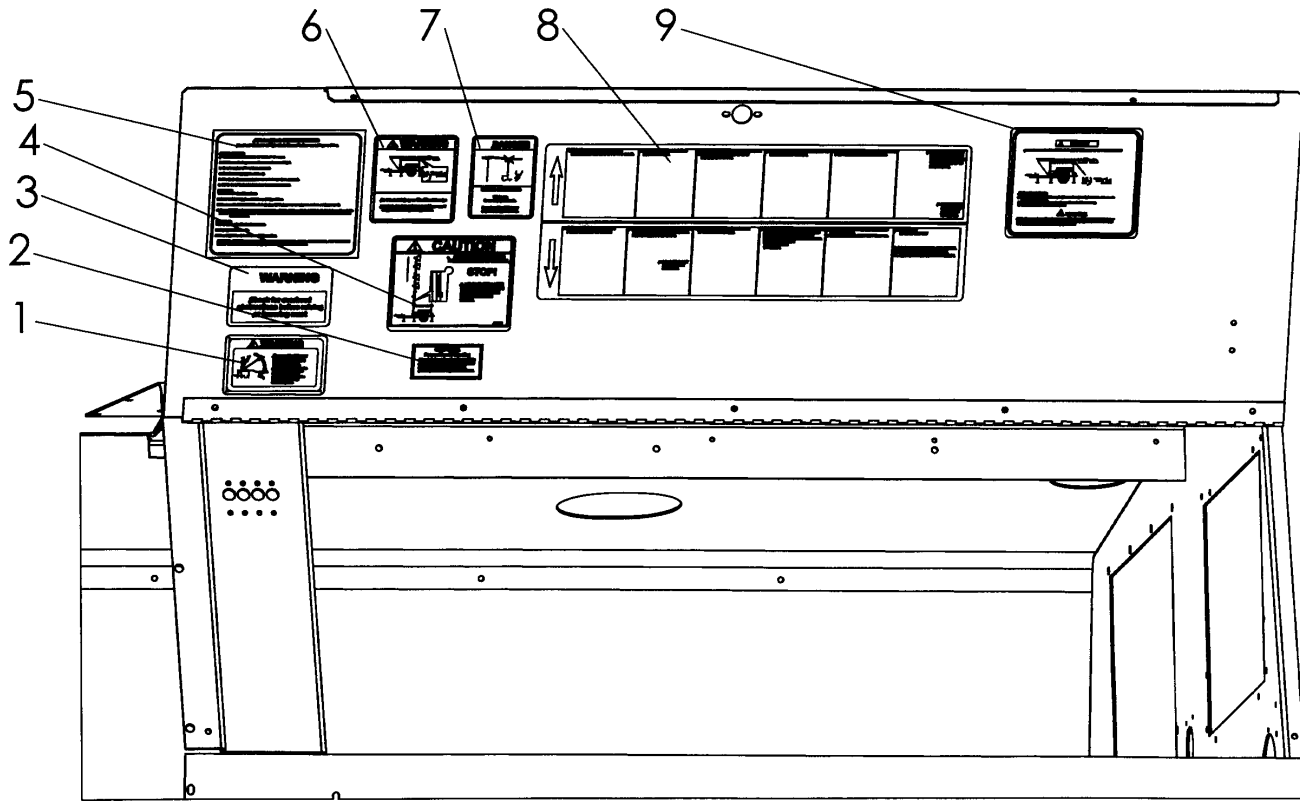
NO	REQ'D	PART NO	DESCRIPTION
1	1	090169	DECAL - LIGHTS 1,2,3,4 (4-LIGHT OPTION)
NS	1	090282	DECAL - LIGHTS 1,2,3,4 ,5,6 (6-LIGHT OPTION)
2	1	090084	DECAL - WARNING FAILURE TO TURN OFF LIGHTS
3	1	090261	DECAL - IGNITION START, ELECTRIC WINCH
4	1	090158	DECAL - WARNING OPERATORS MANUAL
5	1	090163	DECAL - DANGER ELECTRIC SHOCK
6	1	090034	DECAL-DIESEL

LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



DECAL PLACEMENT

D-5B

NO	REQ'D	PART NO	DESCRIPTION
1	1	090152	DECAL - NON-VERTICAL TOWER
2	1	090005	DECAL - CHECK FOR OVERHEAD OBSTRUCTIONS
3	1	090179	DECAL - PROPOSITION 65, DIESEL
4	1	090205	DECAL - CAUTION, RED LATCH (ELECTRIC WINCH)
5	1	090151	DECAL - OPERATING INSTRUCTIONS
6	1	090263	DECAL - WARNING, PULL PIN
7	1	090165	DECAL - DANGER, ELECTRIC SHOCK
8	1	090262	DECAL - PICTORIAL OPERATOR, ELECTRIC WINCH
		090259	DECAL - PICTORIAL OPERATOR, MANUAL WINCH
9	1	090264	DECAL - LIFT INSTRUCTIONS

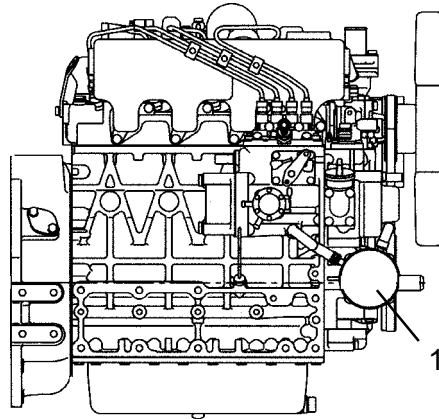
LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:

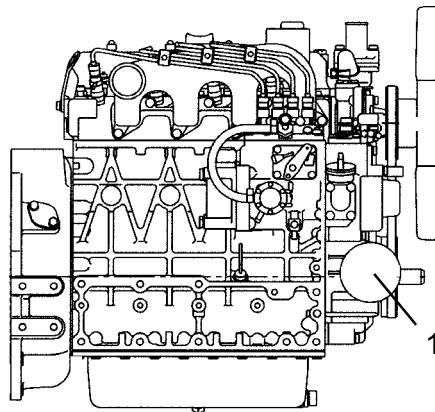
01-White
04-Allmand Yellow
09-Flat Black

02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red



V2003T



V2203

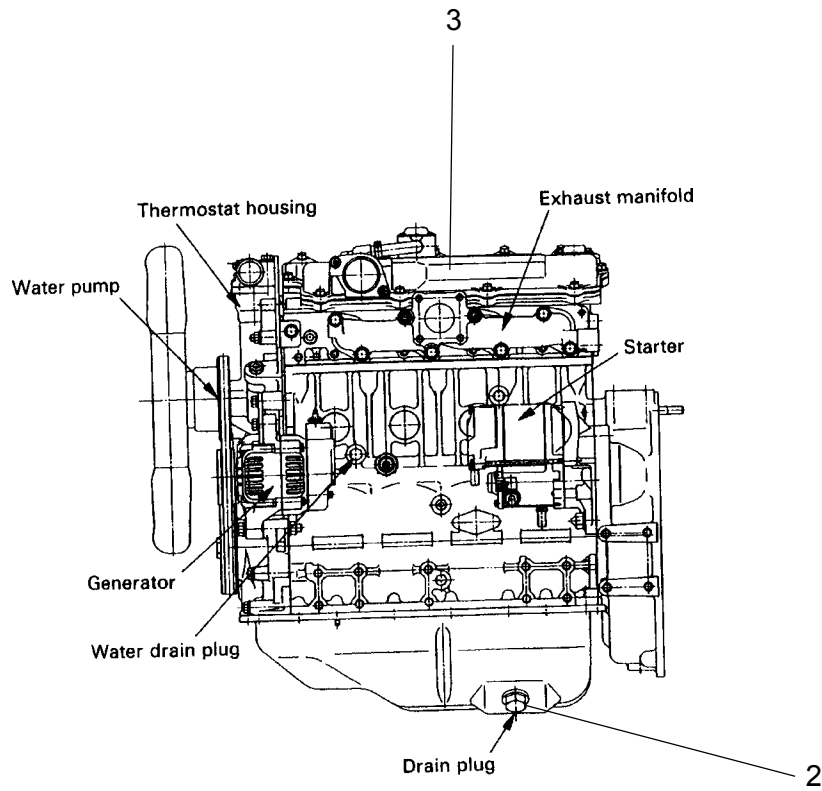
NO	REQ'D	PART NO	DESCRIPTION
1	1	350365	OIL FILTER, V1903, V2203, V2003T ENGINES
NS	1	350366	FUEL FILTER, V1903, V2203, V2003T ENGINES
NS	1	081016	FUEL LINE (1/4" FUEL LINE 72")
NS	1	081005	RETURN LINE (NYLON HOSE 80")
NS	1	081018	FUEL LINE (5/16" FUEL LINE 14")
NS	1	081018	FUEL LINE (5/16" FUEL LINE 10")
NS	1	@@@	TOP RADIATOR HOSE
NS	1	@@@	BOTTOM RADIATOR HOSE
NS	1	340105	GROUND STRAP
NS	1	@@@	RADIATOR
NS	1	680826	HIGH TEMPERATURE SWITCH
NS	1	350367	AIR CLEANER ELEMENT ONLY
NS	1	@@@	AIR CLEANER/FILTER ELEMENT ASSEMBLY
NS	1	680237*	ENGINE MOUNT BRACE (LEFT) (2203 AND 2003T)
NS	1	680238*	ENGINE MOUNT BRACE (RIGHT) (2203 AND 2003T)
NS	1	340301	OIL PRESSURE SWITCH
NS		680139	FUEL SOLENOID, KUBOTA 4 CYL

@@@ = See local Kubota Dealer

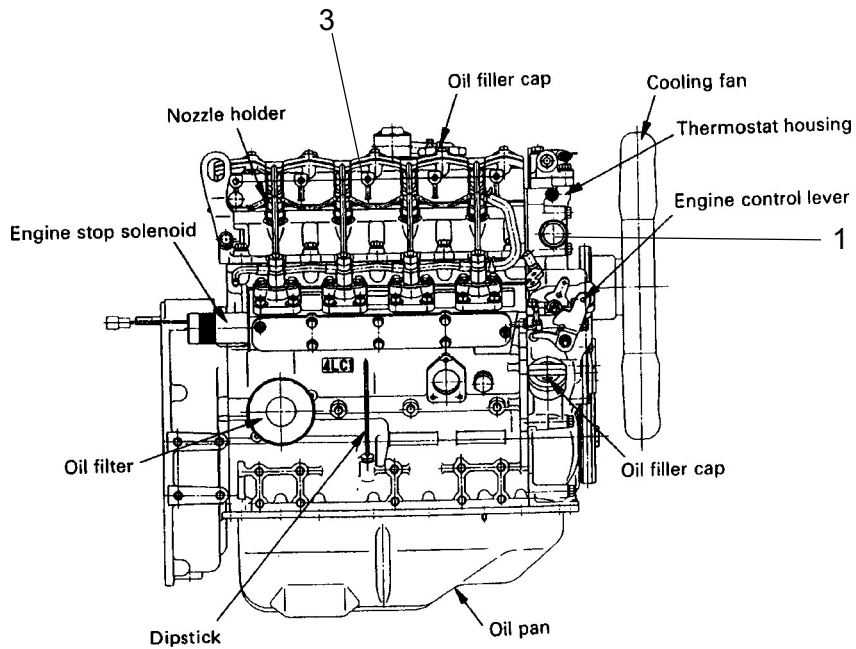
LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:

01-White	02-Gloss Black	03-Gray
04-Allmand Yellow	05-Orange	06-Allmand Gold
09-Flat Black	10-High temp Black	11-Red



*Note:
Engine details may
vary depending on the
specifications.*



NO	REQ'D	PART NO	DESCRIPTION
1	1	@@@@ 680334	HIGH TEMPERATURE SWITCH 205° (2 PRONG) HIGH TEMPERATURE SWITCH 230° (3 PRONG)
2	1	@@@@	OIL DRAIN PLUG
3	1	680275	ISUZU 4L31 ENGINE ONLY (COMPLETE)
NS	1	@@@@	AIR CLEANER DUST CAP
NS	1	@@@@	AIR CLEANER
NS	1	@@@@	AIR INTAKE HOSE
NS	1	@@@@	OIL PRESSURE SWITCH
NS	1	@@@@	UPPER RADIATOR HOSE
NS	1	@@@@	RADIATOR
NS	52"	081005	NYLON RETURN LINE
NS	20"	081016	1/4 FUEL LINE
NS	1	@@@@	MUFFLER GASKET
NS	1	680331	AIR CLEANER ELEMENT (PRIMARY)
NS	1	680332	AIR CLEANER ELEMENT (SECONDARY)
NS	1	650221	OIL FILTER
NS	1	650220	FUEL FILTER

LEGEND:

NS= Not Shown

** =Purchase locally

@@@@ = See local ISUZU Dealer

* Use these codes to designate color needed:

01-White

04-Allmand Yellow

09-Flat Black

02-Gloss Black

05-Orange

10-High temp Black

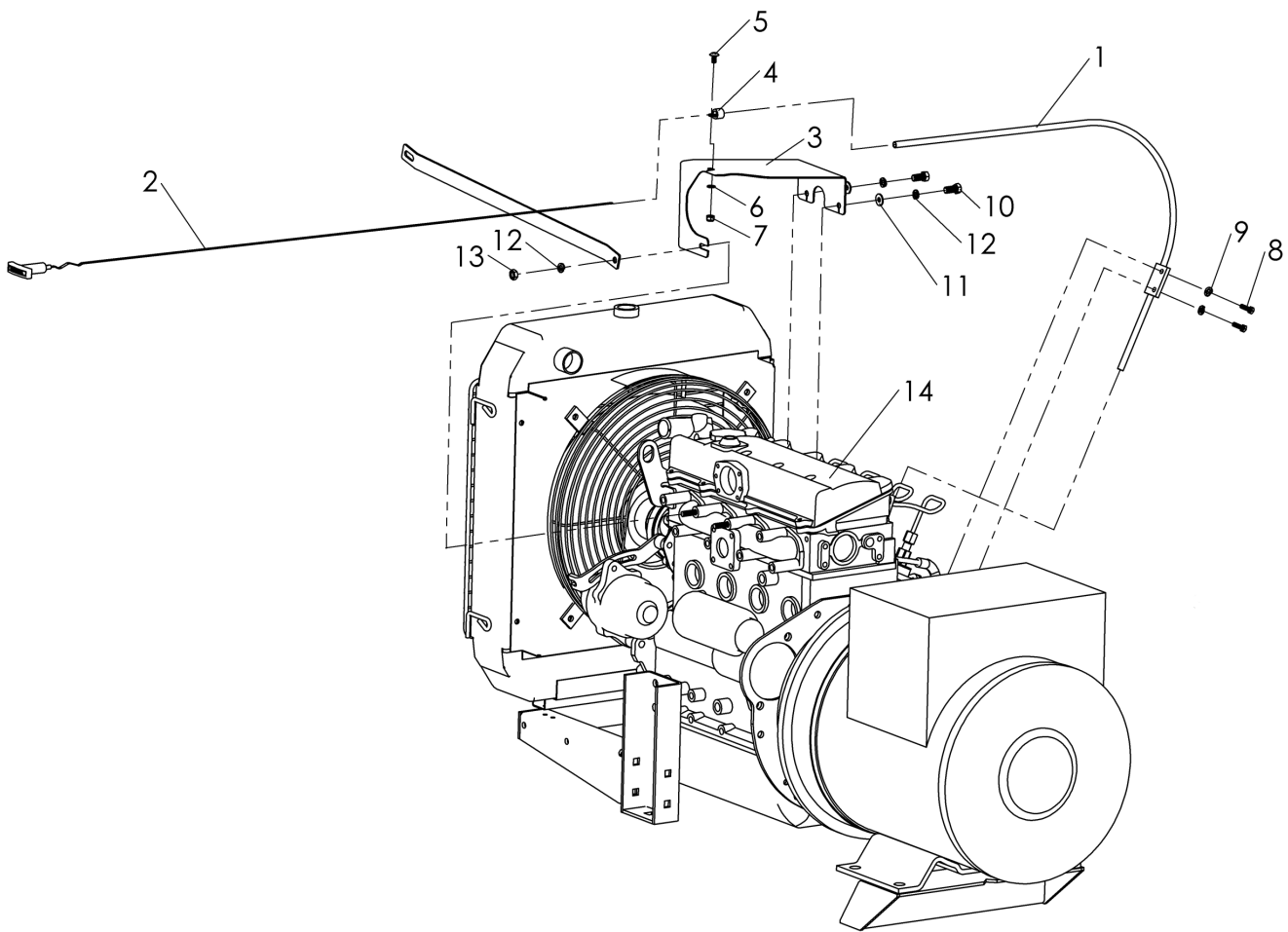
03-Gray

06-Allmand Gold

11-Red

E-3A

Isuzu 4LE Extended Dipstick



NO REQ'D PART NO DESCRIPTION

Isuzu 4LE Extended Dip stick

E-3B

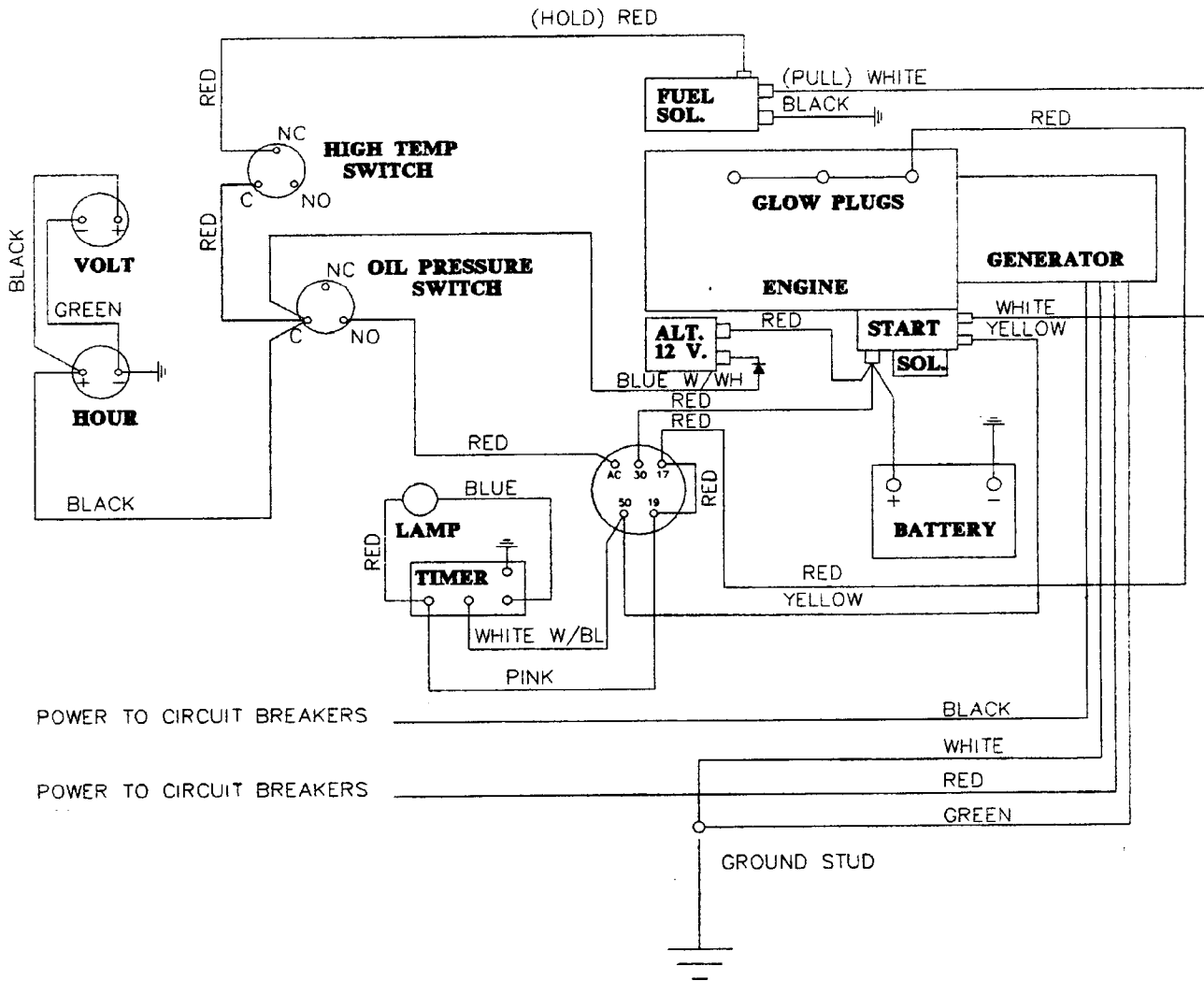
1	1	100606	ISUZU EXTENDED DIPSTICK TUBE
2	1	100605	ISUZU EXTENDED DIPSTICK
3	1	100340	ISUZU 4LE EXTENDED DIPSTICK BRACKET
4	1	022016	# 6 CUSHION CLAMP, 1/4" HOLE
5	1	041078	1/4-20 x 1/2" PLATED PHILIPS TRUSS HEAD SCREW
6	1	047009	1/4" SS FLAT WASHER
7	1	044023	NUT 1/4-20 NYLOC HEX PLATED
8	2	100710	6MM - 1.00 X 20MM HEX SCREW
9	2	043020	1/4" PLATED SPLIT LOCK WASHER
10	2	042027	M8 - 1.25 x 16mm HEX BOLT
11	2	047005	1/4" PLATED FLAT WASHER
12	3	043055	5/16" PLATED SPLIT LOCK WASHER
13	1	042082	8MM - 1.25 HEX NUT
14	1	680275	ISUZU 4LE ENGINE

LEGEND: NS= Not Shown
 ** =Purchase locally

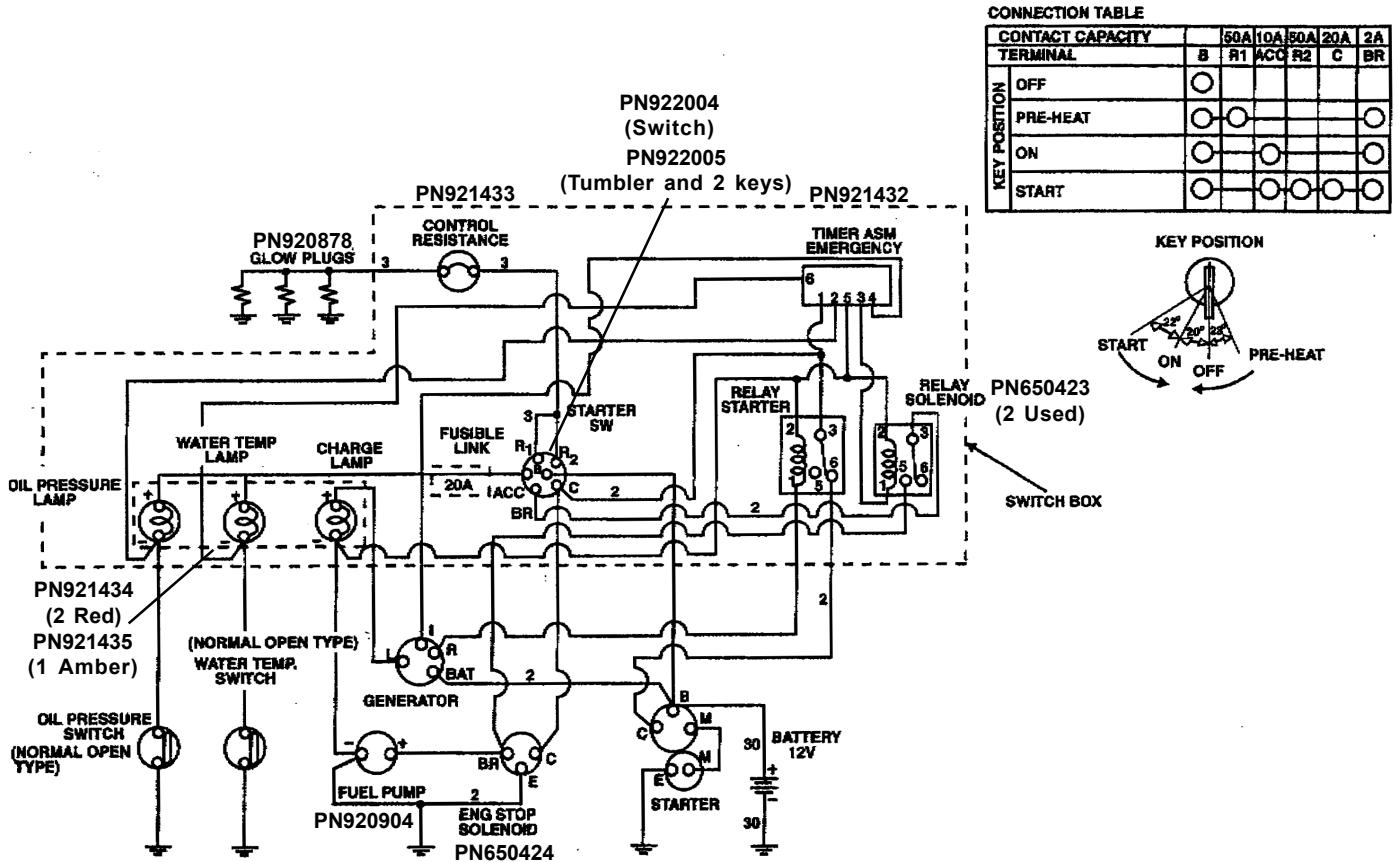
* Use these codes to designate color needed:
 01-White
 02-Gloss Black
 03-Gray
 04-Allmand Yellow
 05-Orange
 06-Allmand Gold
 09-Flat Black
 10-High temp Black
 11-Red

ELECTRICAL DIAGRAMS

KUBOTA ENGINE/GENERATOR SET



ISUZU 4LE1 ENGINE

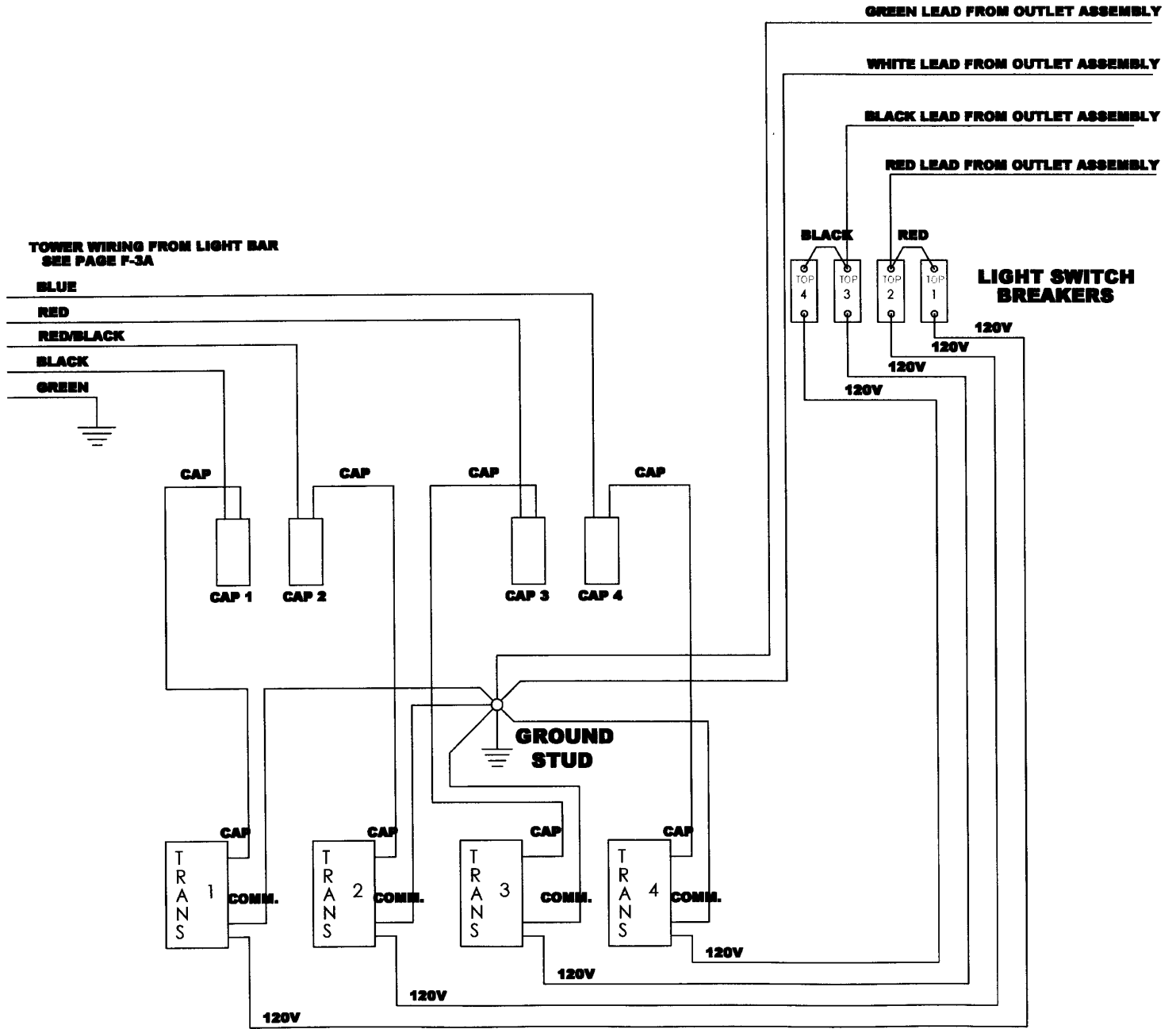


LEGEND: NS= Not Shown
 ** =Purchase locally

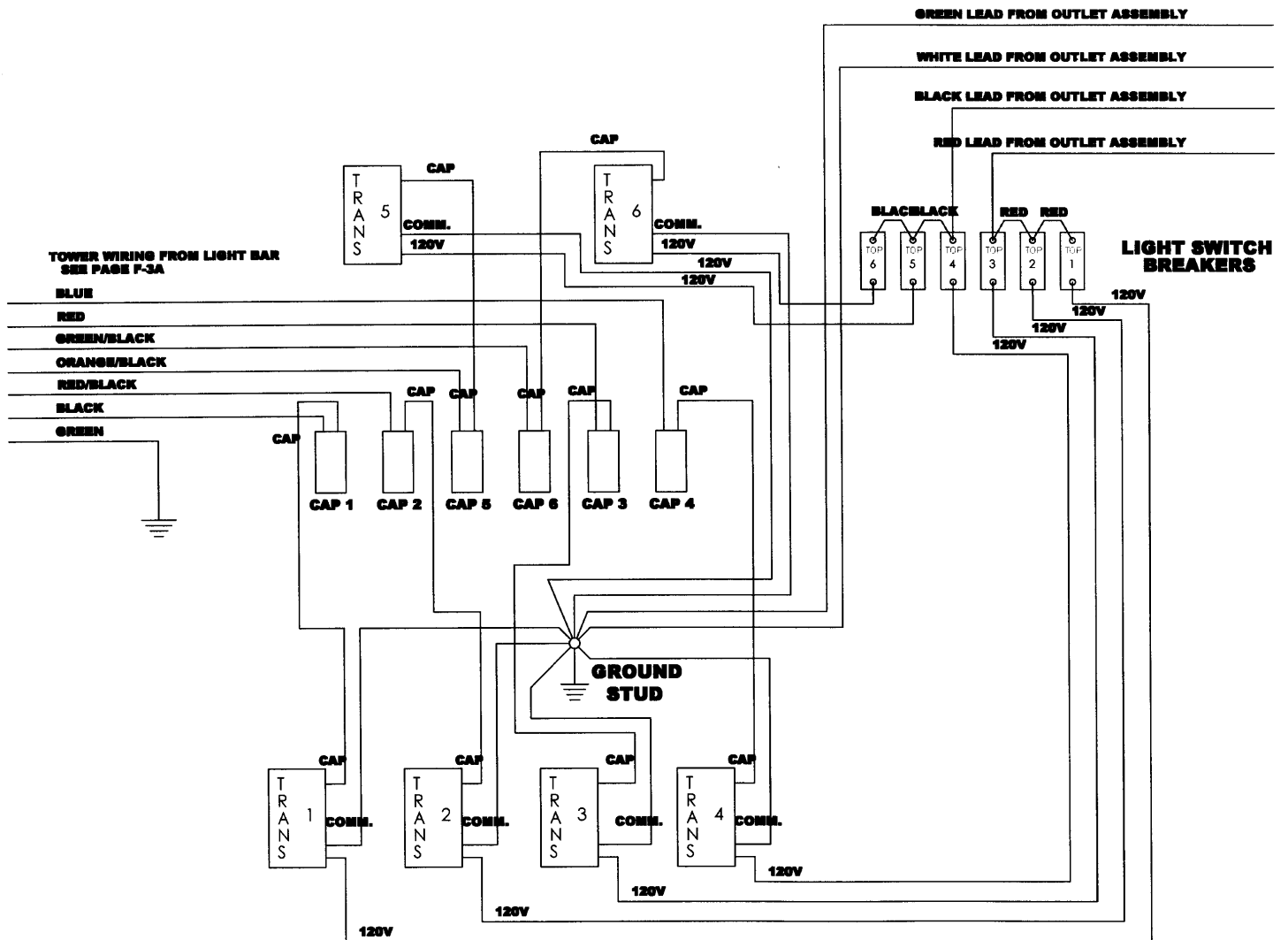
* Use these codes to designate color needed:
 01-White 02-Gloss Black 03-Gray
 04-Allmand Yellow 05-Orange 06-Allmand Gold
 09-Flat Black 10-High temp Black 11-Red

ELECTRICAL DIAGRAMS

BALLAST ASSEMBLY, 4-LIGHT CSA



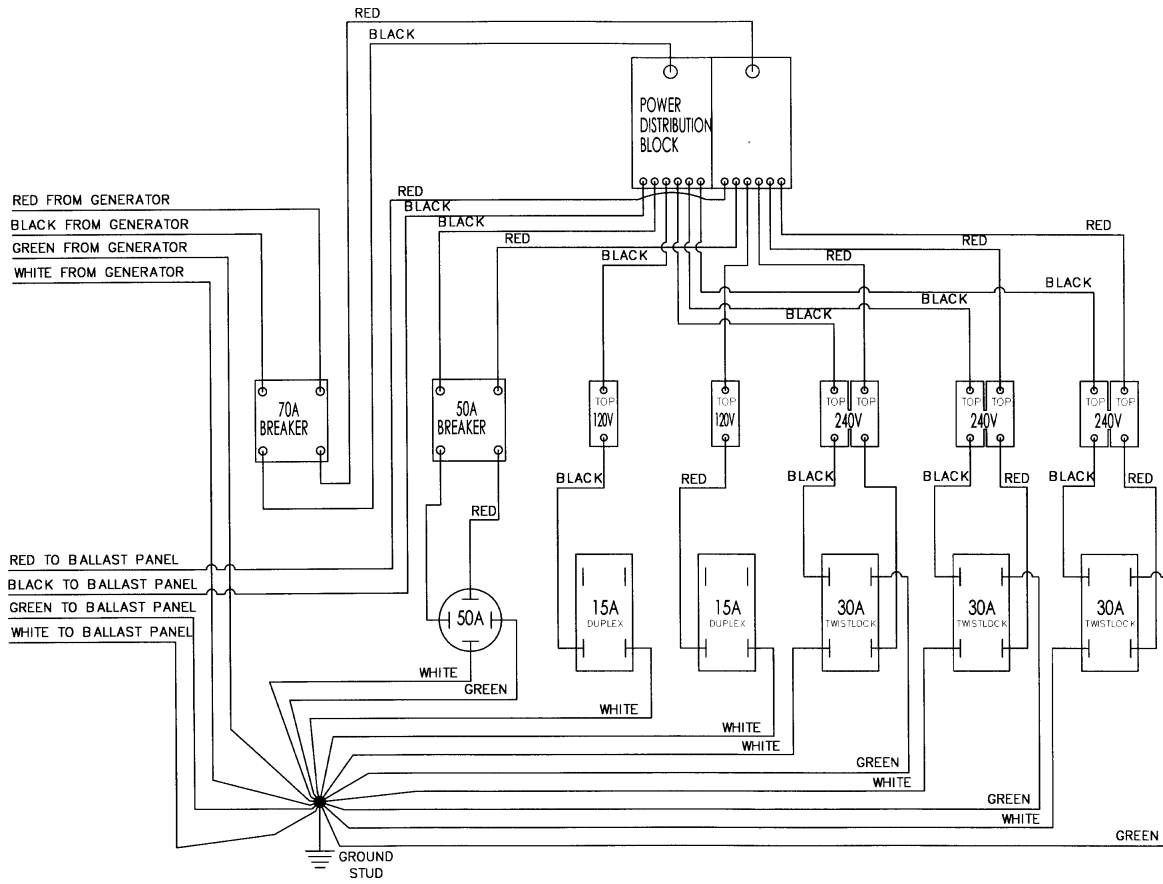
BALLAST ASSEMBLY, 6-LIGHT CSA



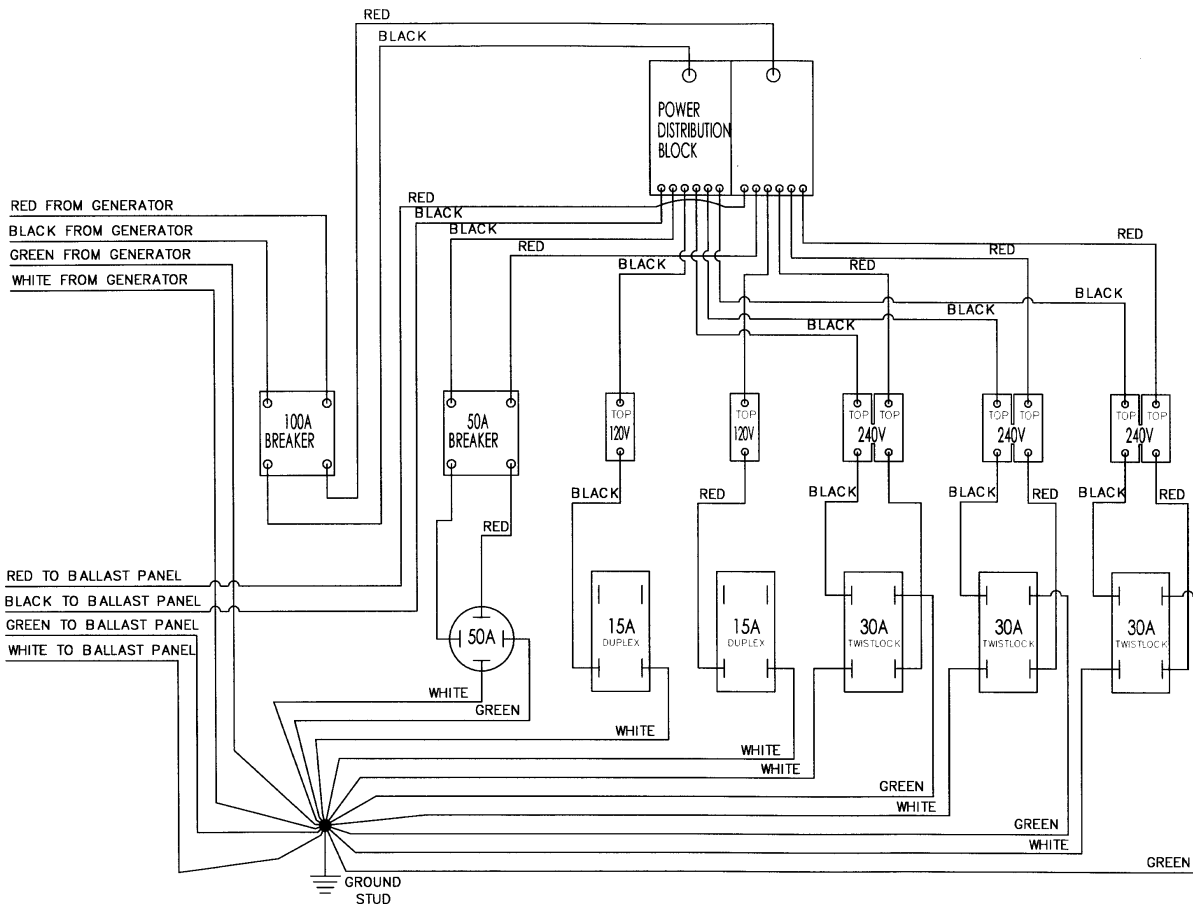
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 ** =Purchase locally

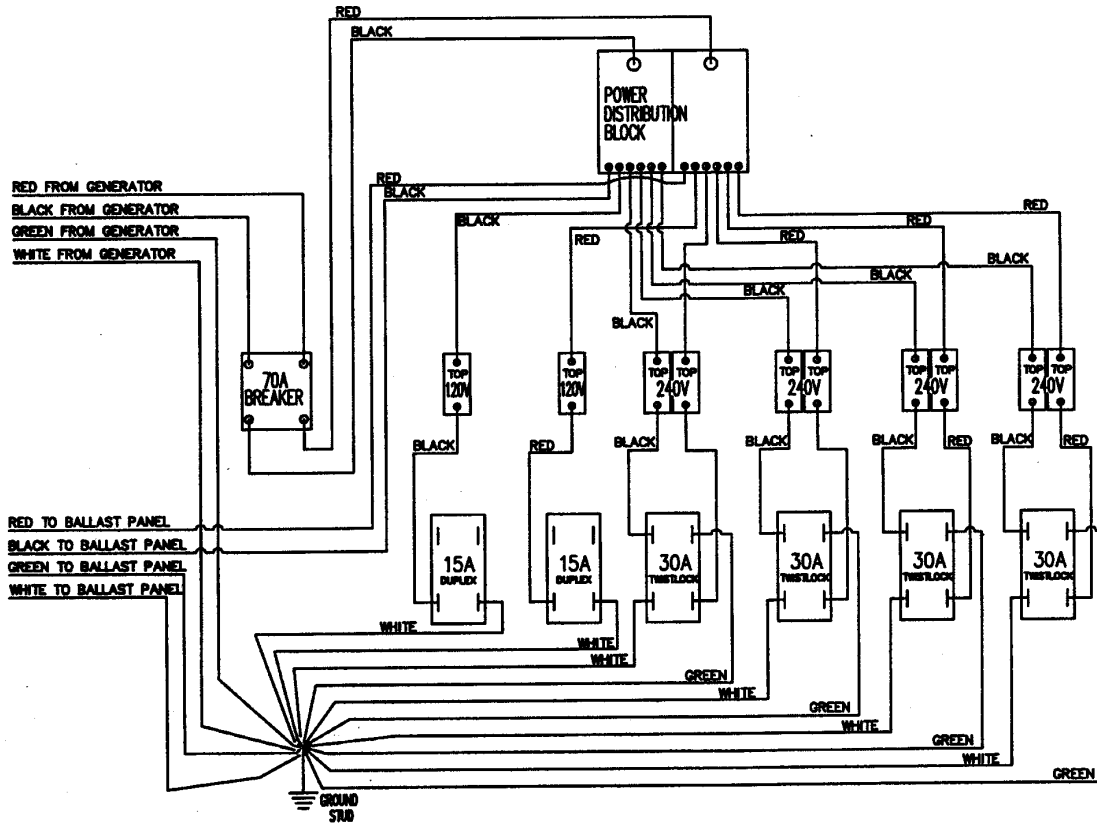
* Use these codes to designate color needed:
 01-White 02-Gloss Black 03-Gray
 04-Allmand Yellow 05-Orange 06-Allmand Gold
 09-Flat Black 10-High temp Black 11-Red

OUTLET ASSEMBLY 15KW WITH EXTRA 50A RECEPTACLE

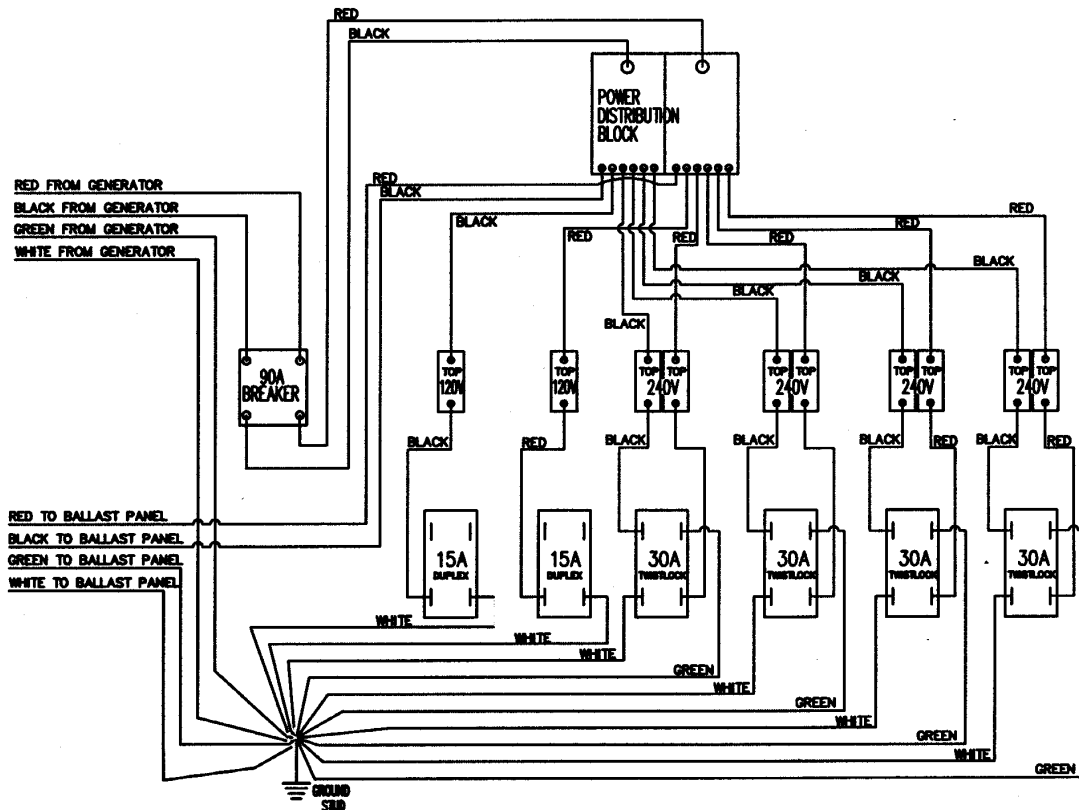


OUTLET ASSEMBLY 20KW WITH EXTRA 50A RECEPTACLE





OUTLET ASSEMBLY CSA 20KW WITH FOUR 30A RECEPTACLES

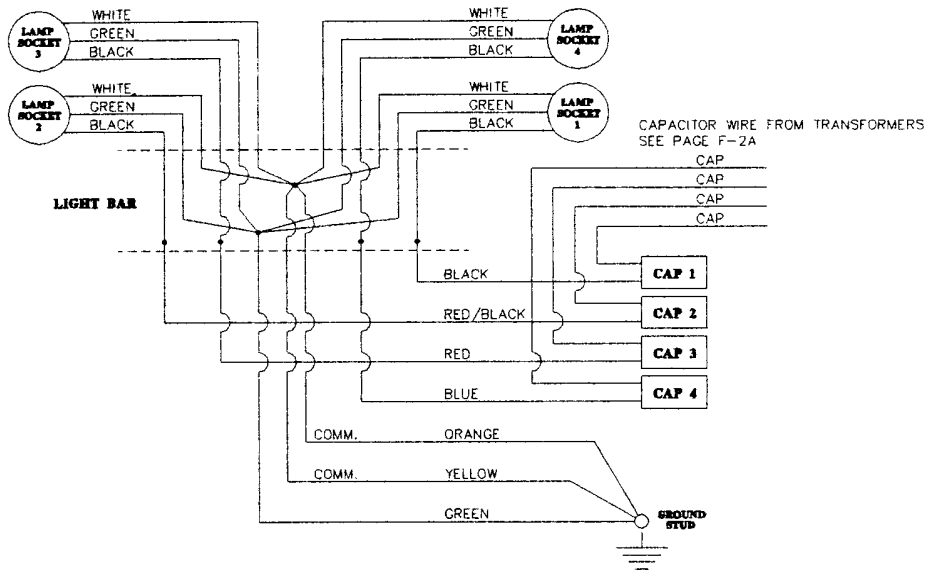


LEGEND: NS= Not Shown
** =Purchase locally

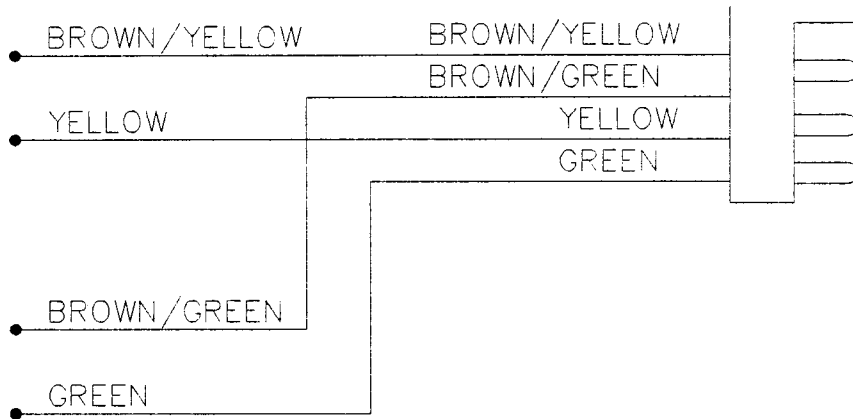
* Use these codes to designate color needed:
01-White
04-Allmand Yellow
09-Flat Black
02-Gloss Black
05-Orange
10-High temp Black

03-Gray
06-Allmand Gold
11-Red

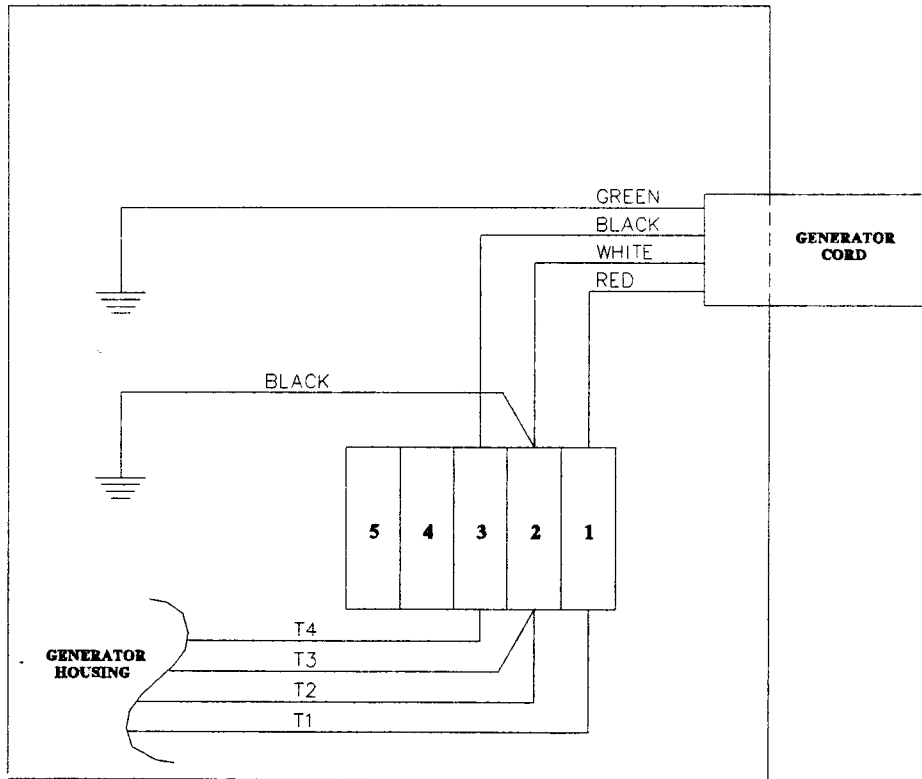
LAMP SOCKET/BALLAST COMPARTMENT WIRING, 4-LIGHT



352037 TAILLIGHT WIRING HARNESS



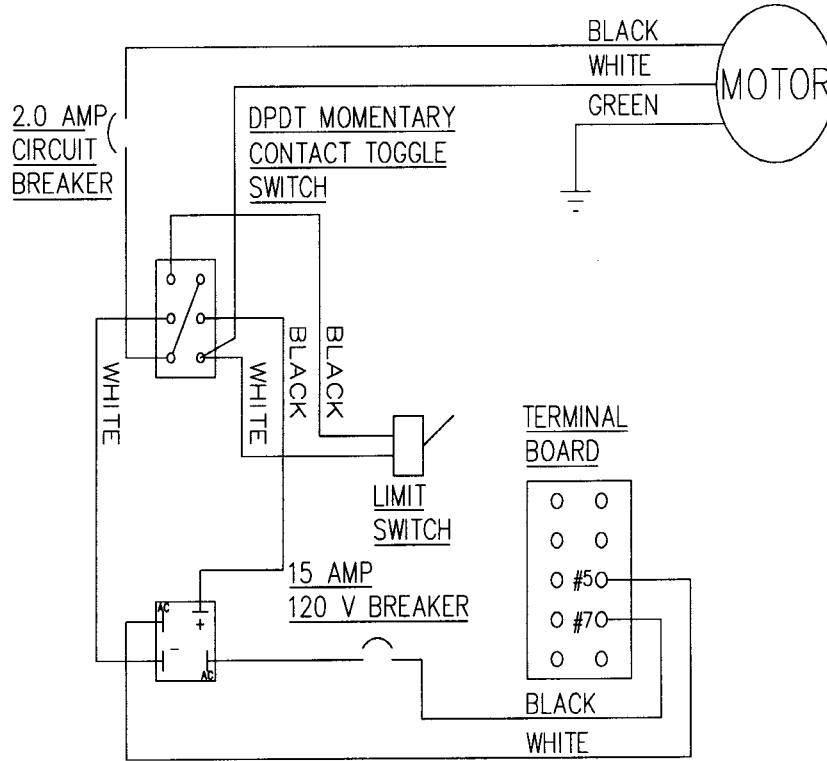
MARATHON GENERATOR ELECTRICAL BOX WIRING



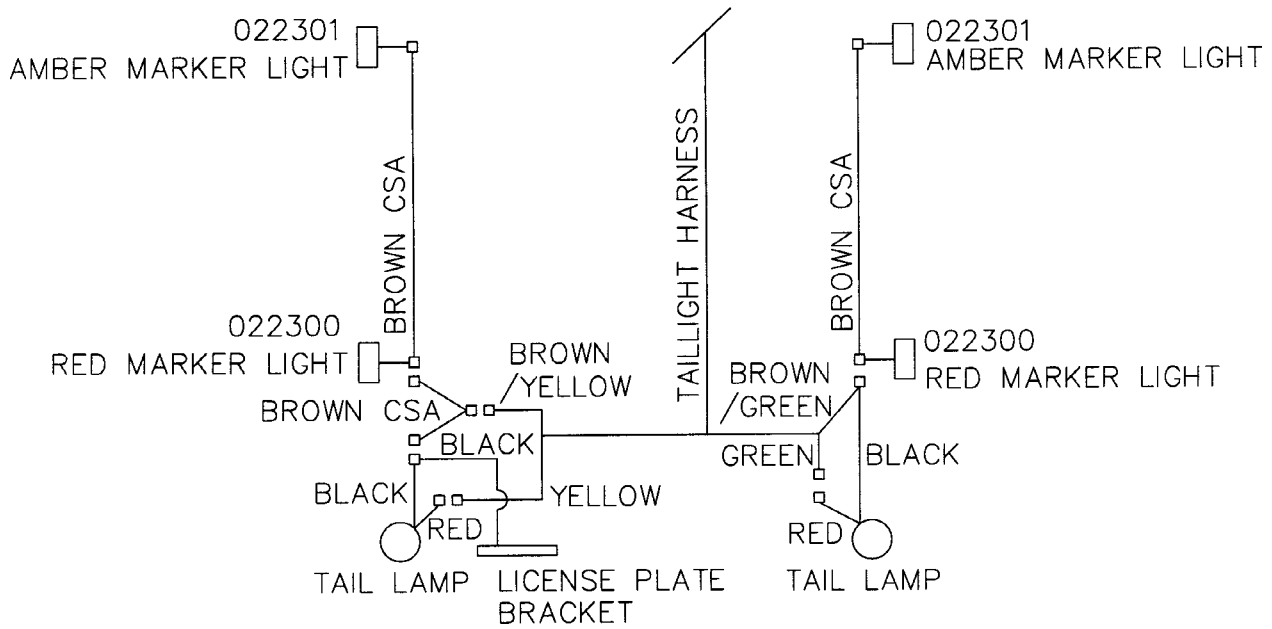
LEGEND: NS= Not Shown
 ** =Purchase locally

* Use these codes to designate color needed:
 01-White
 02-Gloss Black
 03-Gray
 04-Allmand Yellow
 05-Orange
 06-Allmand Gold
 09-Flat Black
 10-High temp Black
 11-Red

DUTTON-LAINSON STRONG ARM WINCH SCHEMATIC

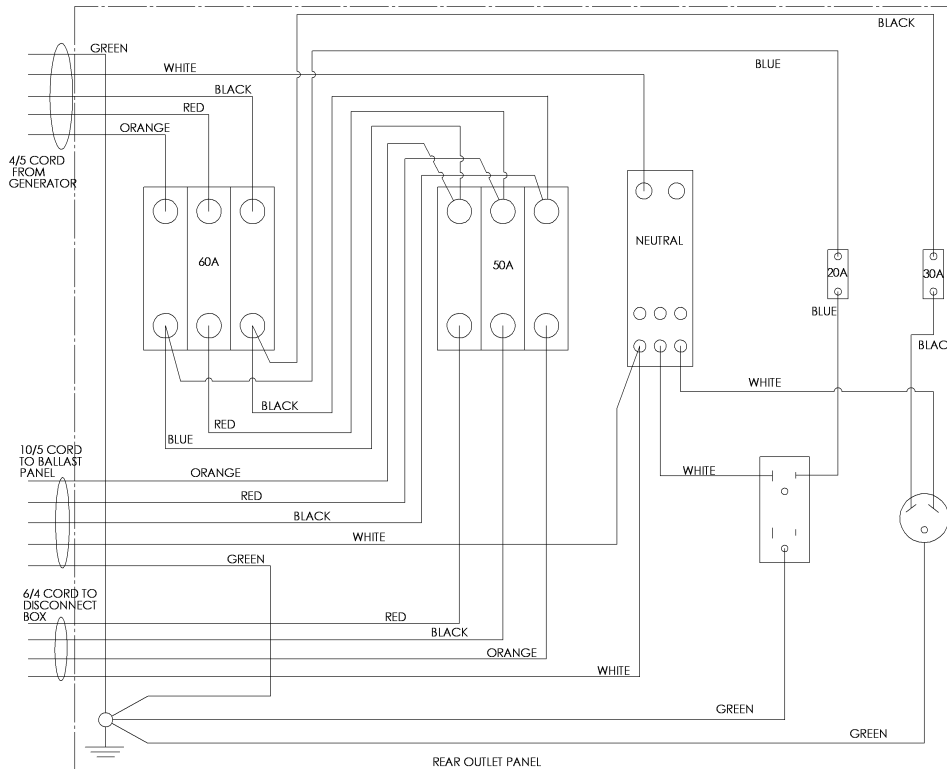
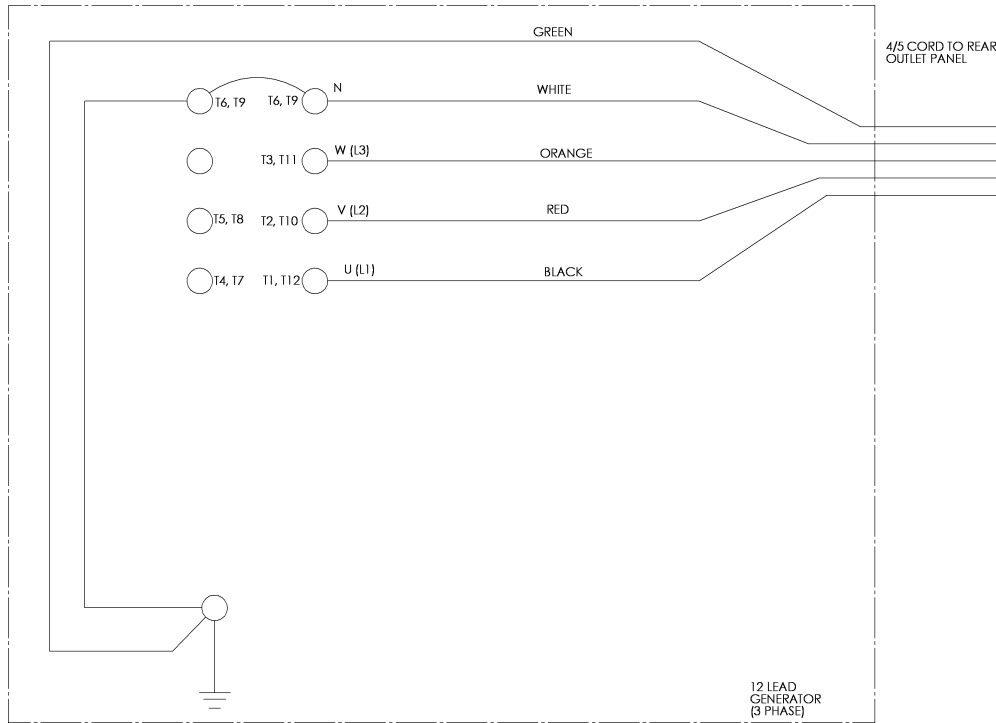


CSA TAILLIGHT WIRING WITH MARKER LIGHTS



ELECTRICAL DIAGRAMS F-5A

240 Volt 3 Phase Electric Winch 4 Light Wiring Diagrams

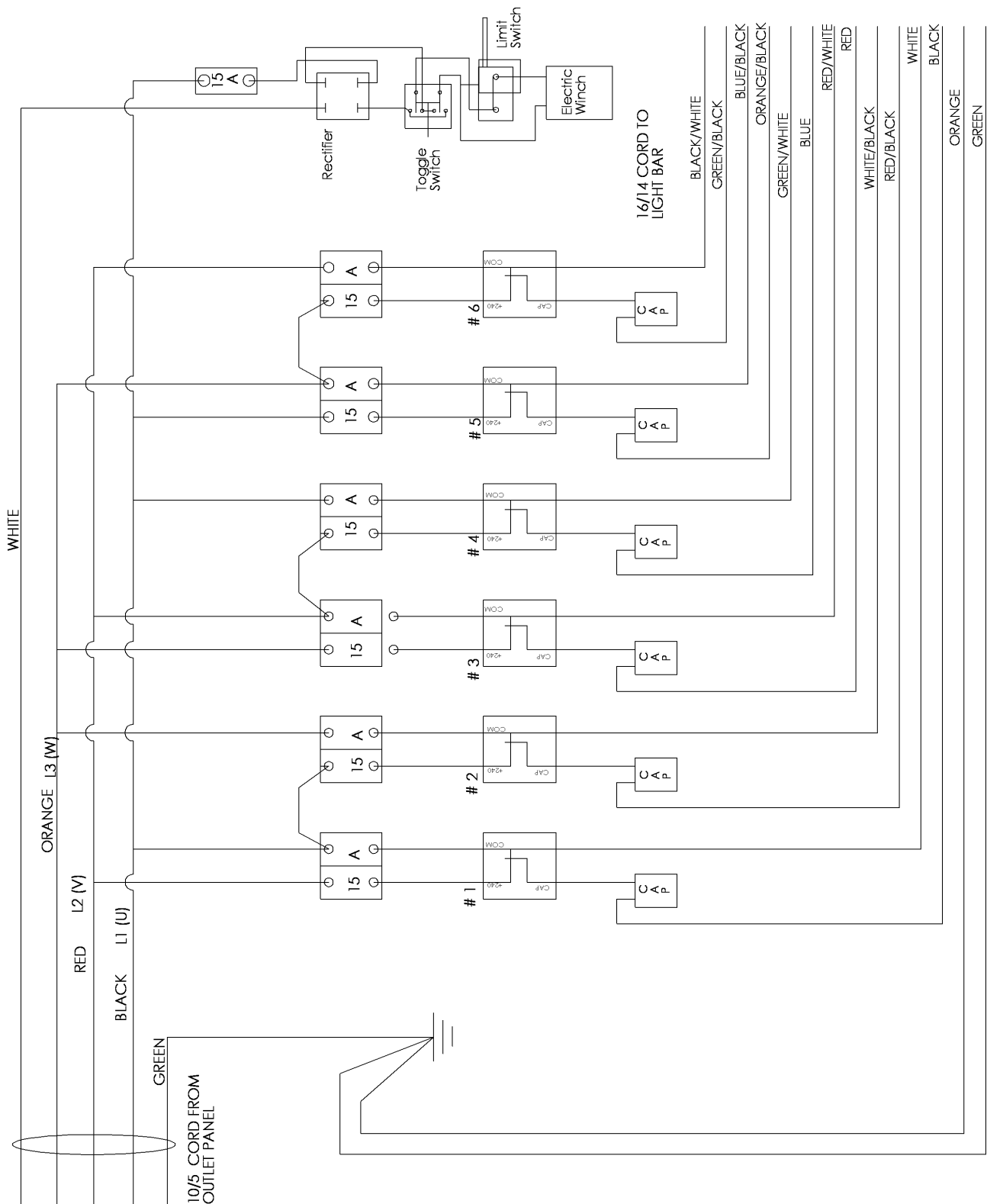


LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:
01-White
02-Gloss Black
04-Allmand Yellow
05-Orange
09-Flat Black
10-High temp Black

03-Gray
06-Allmand Gold
11-Red

240 Volt 3 Phase Electric Winch 6 Light Ballast Panel Wiring Diagram

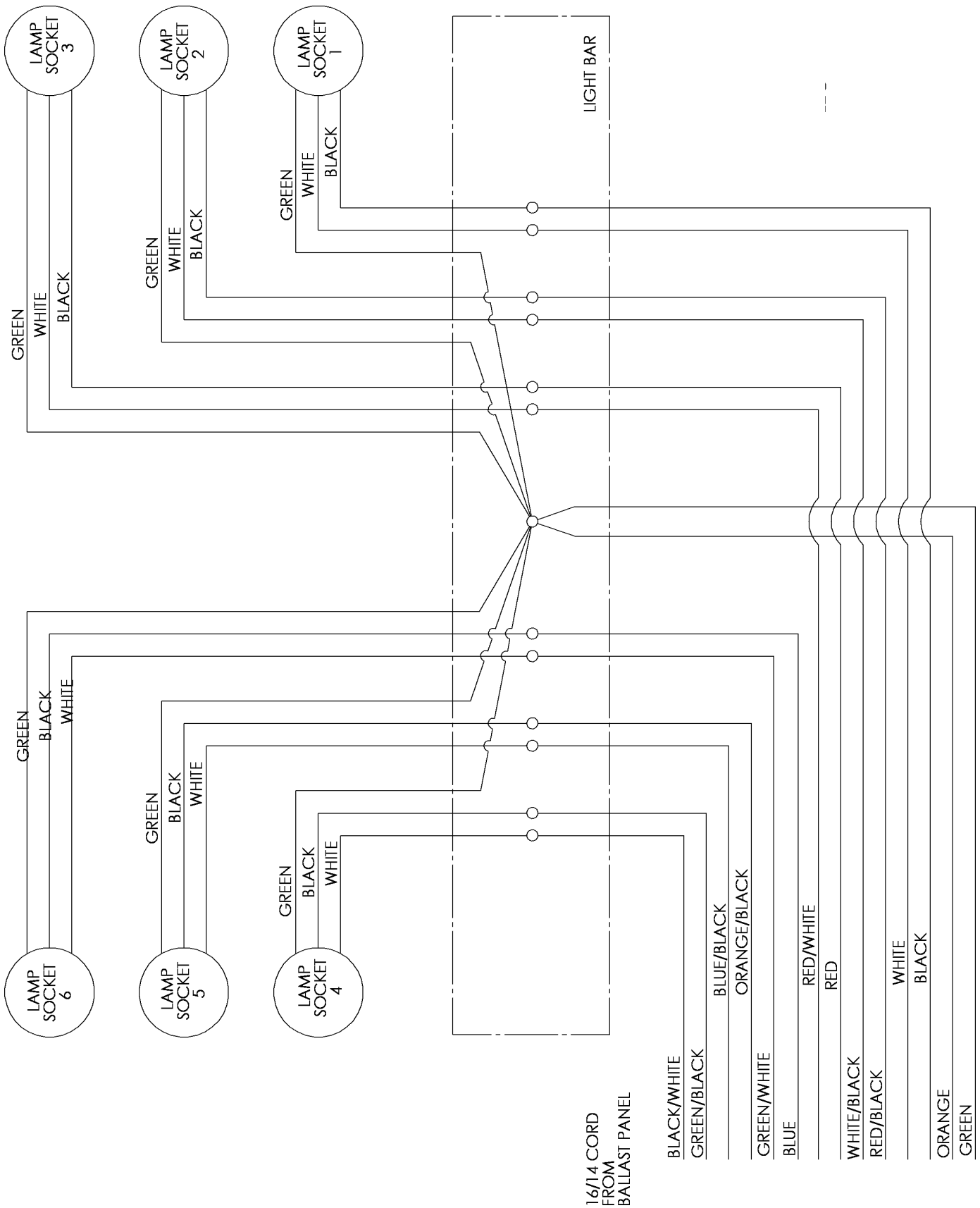


LEGEND: NS= Not Shown
** =Purchase locally

* Use these codes to designate color needed:
 01-White 02-Gloss Black 03-Gray
 04-Allmand Yellow 05-Orange 06-Allmand Gold
 09-Flat Black 10-High temp Black 11-Red

F-8A

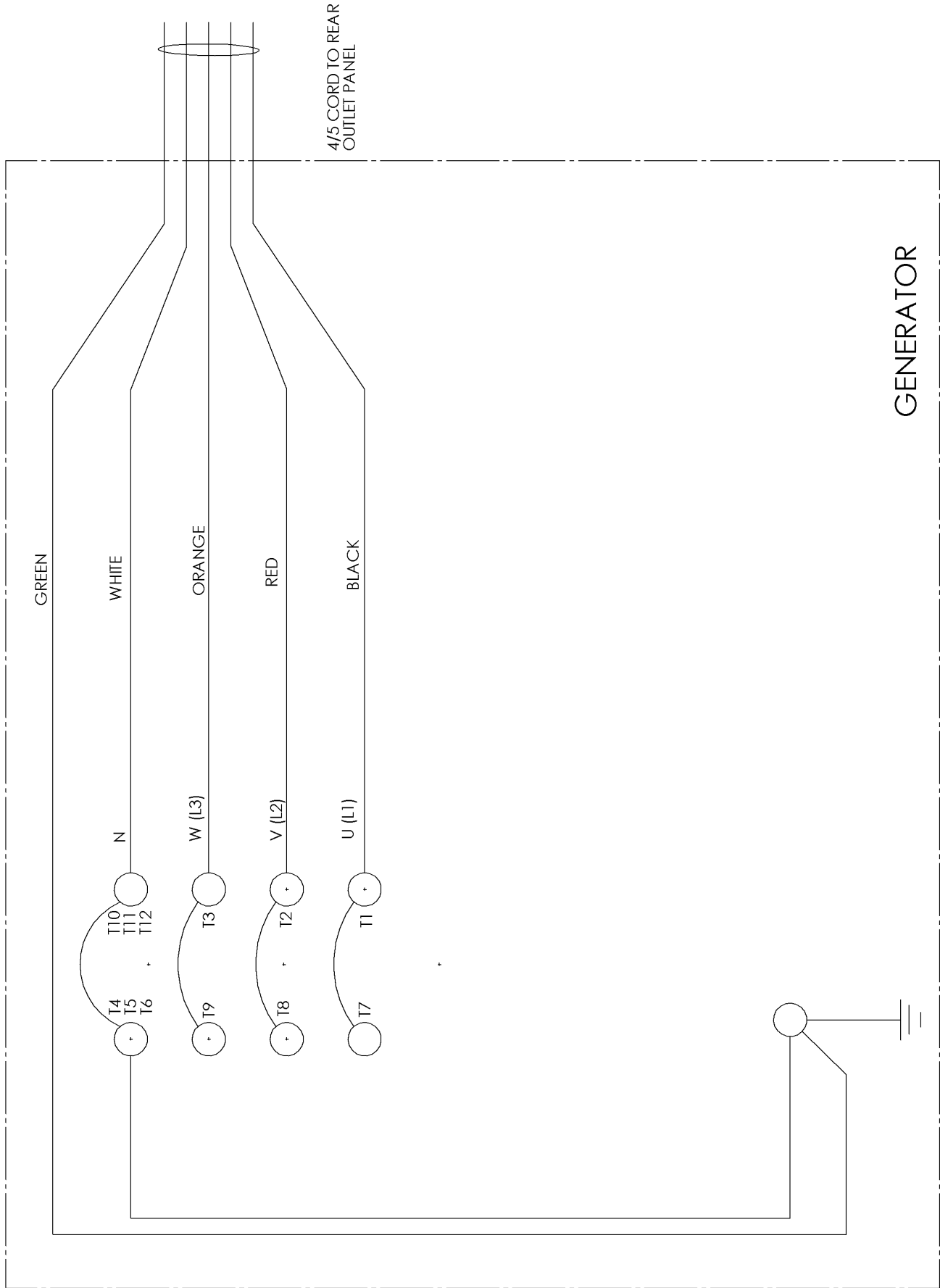
240 Volt 3 Phase Electric Winch 6 Light Light Bar Wiring Diagram



ELECTRICAL DIAGRAMS

208 Volt 3 Phase Generator Wiring Diagram

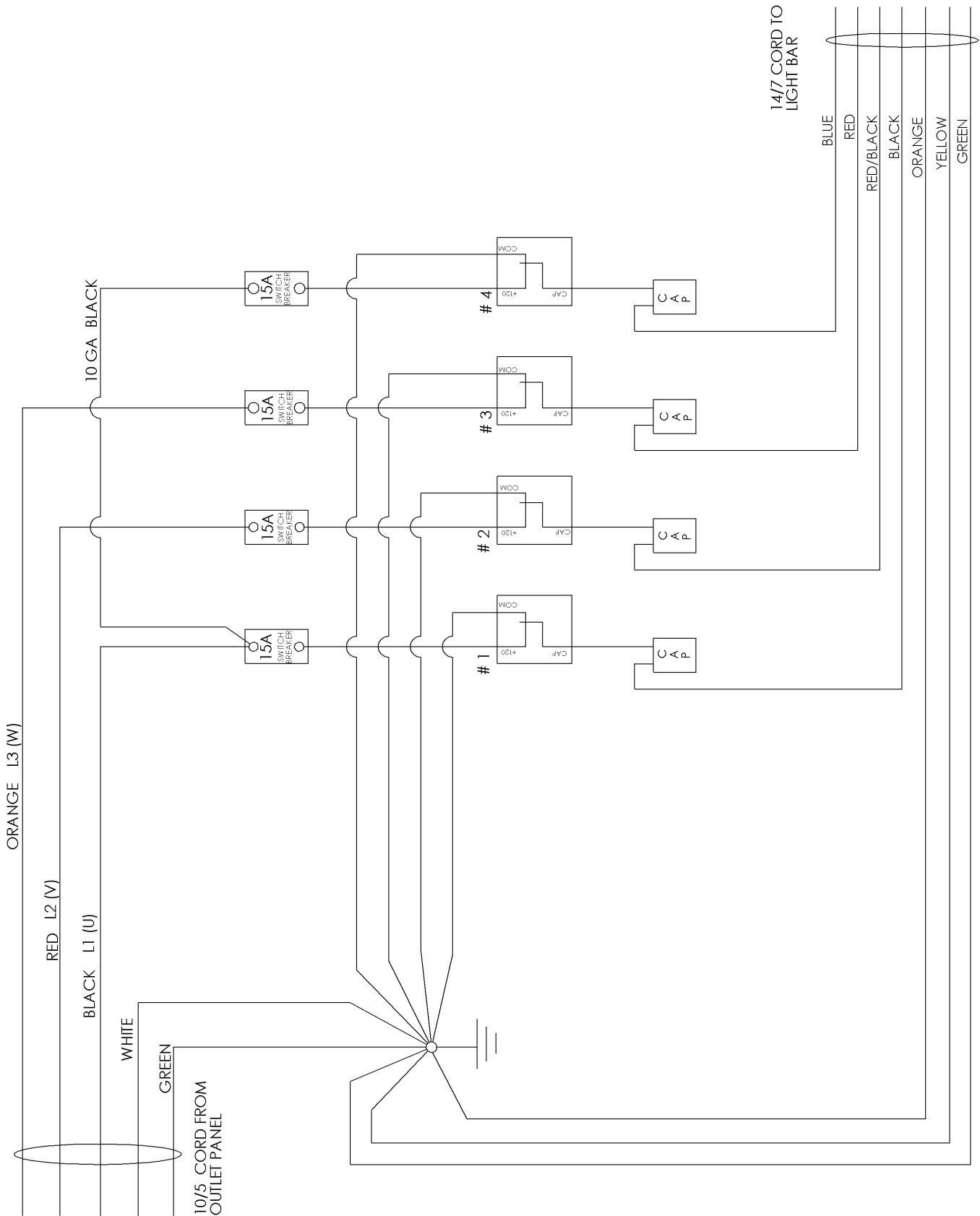
F11A



ELECTRICAL DIAGRAMS

F-12A

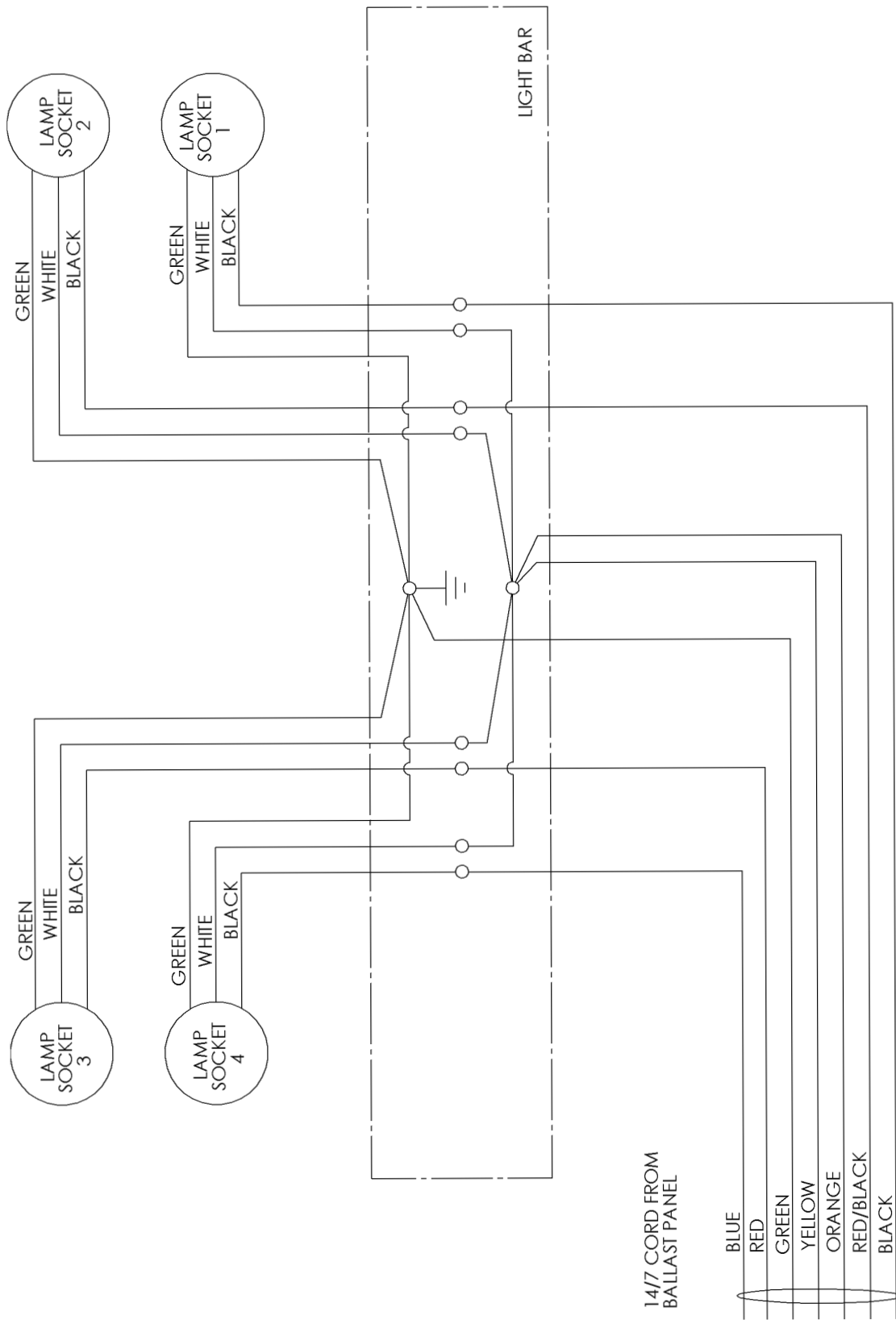
208 Volt 3 Phase 4 Light Manual Winch Ballast Panel Wiring Diagram



ELECTRICAL DIAGRAMS

F-13A

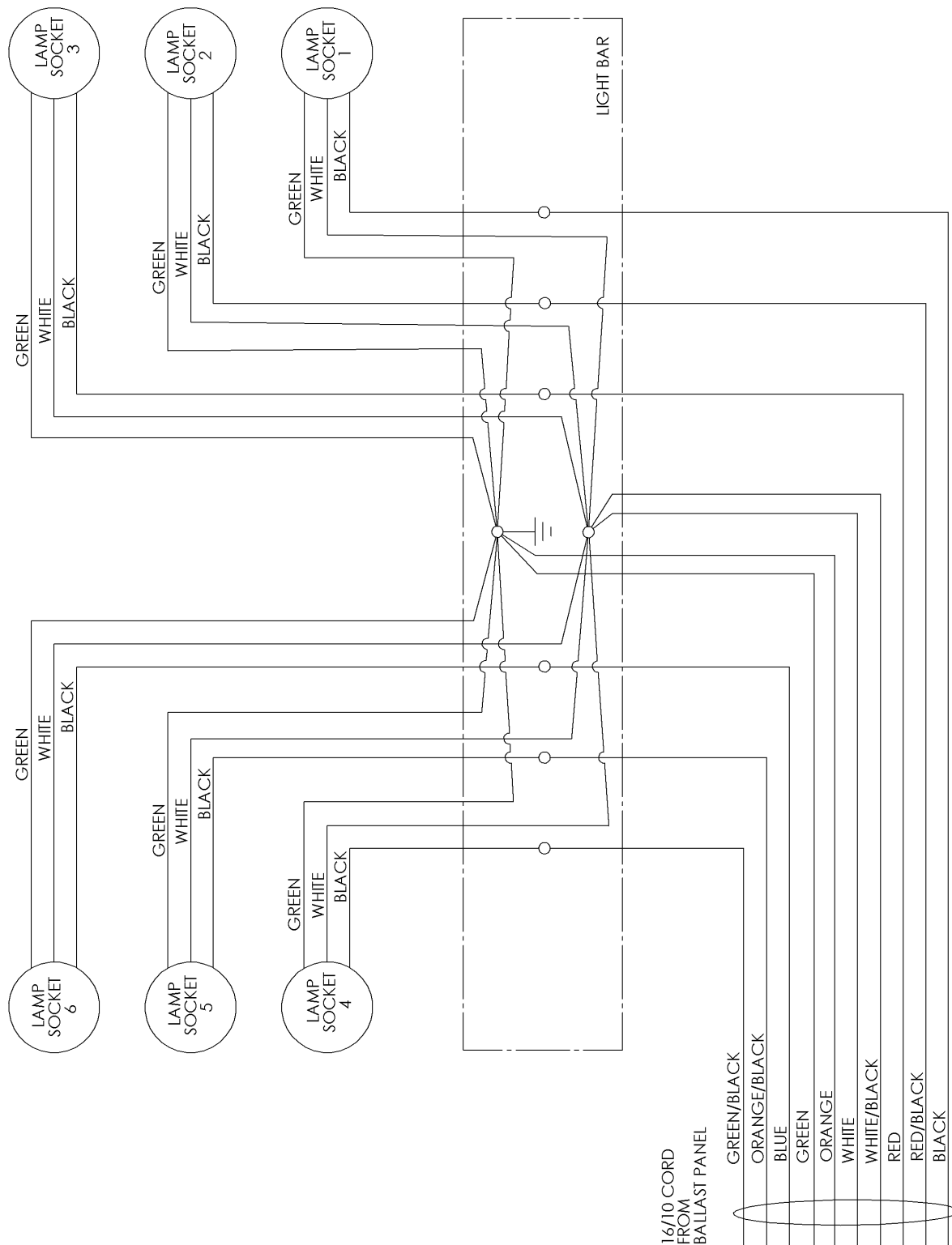
208 Volt 3 Phase 4 Light Manual Winch Light Bar Wiring Diagram



ELECTRICAL DIAGRAMS

F-15A

208 Volt 3 Phase 6 Light Manual Winch Light Bar Wiring Diagram



16/10 CORD
FROM
BALLAST PANEL

- GREEN/BLACK
- ORANGE/BLACK
- BLUE
- GREEN
- ORANGE
- WHITE
- WHITE/BLACK
- RED
- RED/BLACK
- BLACK

* Use these codes to designate color needed:

- | | |
|-------------------|--------------------|
| 01-White | 06-Allmand Gold |
| 02-Gloss Black | 09-Flat Black |
| 03-Gray | 10-High temp Black |
| 04-Allmand Yellow | 11-Red |
| 05-Orange | |

LIMITED 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 ACCOMPANY THESE GOODS.

Subject to the foregoing, the manufacturer, Allmand Bros. Inc., hereby warrants all equipment manufactured by Allmand Bros. Inc. to be free from defects in material and workmanship for a period of (1) year after delivery to the original purchaser. 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 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 forty-five (45) days of the failure.

ALLMAND BROS. INC., 1502 W 4TH AVENUE, P.O. BOX 888, HOLDREGE, NE 68949 (308) 995-4495

Maxi-Lite ML 15/ML 20

* Use these codes to designate color needed:

01-White	06-Allmand Gold
02-Gloss Black	09-Flat Black
03-Gray	10-High temp Black
04-Allmand Yellow	11-Red
05-Orange	