

## *Info Sheet*

### Lockout-Tagout and the Master Disconnect Switch



# Lockout-Tagout and the Master Disconnect Switch

Lockout-tagout is a safety procedure to ensure that dangerous equipment is properly shut off and not started up again before maintenance or servicing work is completed. It requires hazardous power sources to be “isolated and rendered inoperative” before any repair procedure is started.

Lockout-Tagout frequently works with a lock or tag securing a switch in the Off position. A lock completely secures a switch, while a tag is a marker that alerts a user that the switch should not be activated. The lockout is the most secure option, since the padlock can only be removed by someone who has a key – usually the person who locked-out the switch in the first place.

Workers servicing or maintaining equipment may be seriously injured or killed if hazardous energy is not properly controlled. Craft workers, electricians, machine operators, and laborers are among the millions of workers who service equipment routinely, and face the greatest risk of injury. Failure to control hazardous energy accounts for nearly 10 percent of the serious accidents in many industries.

**Heavy duty equipment such as tippers, loaders, excavator, cone crusher and conveys all commercial vehicles need to be immobilized before servicing is performed**



Master Disconnect Switches can be directly locked out



## Benefits of Master Disconnect Switches

Master Disconnect Switches are designed to immobilize the complete electrical system of a vehicle. The switches are typically installed near to the batteries to cut off all electrical power.

There are several excellent reasons to install a Master Disconnect Switch:

- \*Safety, and immobilization of hazardous moving parts (discussed here).
- \*Safety in the case of a road traffic accident. Emergency crews can quickly cut off a vehicle's power using a Master Disconnect Switch.
- \*Cutting off the power when a vehicle is not in use for several days will eliminate parasitic drain of electrical power, and ensure that the vehicle is likely to re-start.
- \*Security against theft, particularly on construction sites. Use of a Master Disconnect Switch can also prevent joyriders (unauthorized personnel) from operating equipment.

## Master Disconnect Switches

Master Disconnect Switches, because they switch high power, tend to be some of the heaviest switches you'll find on a vehicle. Most are SPST (single pole, single throw), isolating one circuit, but we also manufacture DPST (double pole, single throw) which isolate two circuits at one time, even circuits with two different voltages. This type can also be used in a single circuit, isolating both positive and negative lines at the same time, as an added safety feature.

Master Disconnect Switches are rated 300A continuous at 12V and 24V DC 250A and 36VDC 200Amps.

They are waterproof and dustproof to IP68, and can be installed in high-side or low-side applications. The composite engineered polymer construction will not rust or corrode.



## TECHNICAL SPECIFICATION:

<b>Part No.</b>	BL1046
<b>Max Continuous Current</b>	300 Amps
<b>Max Surge Current</b>	2,500 Amps (5 seconds)
<b>Environmental Protection Rating</b>	IP68
<b>Water Resistant</b>	Yes
<b>Operating Temperature Range</b>	-40°C to +80°C / -40°F to +176°F
<b>Contact Terminals</b>	Silver-Plated Copper
<b>Contact Hardware</b>	Nickel-Plated Brass
<b>Additional Notes</b>	Meets OSHA Lock-Out/Tag-Out Regulation 1910.147
<b>Available Stud Length</b>	0.95" (approx. 61/64 in.)
<b>Extension Handle/Lever</b>	No
<b>LED On/Off Indicator</b>	No
<b>Lock-Out Capability</b>	Yes - Padlock (not included)
<b>Max Tightening Torque</b>	11-13 ft. lbs.
<b>Mounting Bracket Included</b>	Yes
<b>Stud Diameter</b>	M10
<b>Voltage</b>	12V/24V and 36VDC

## DIMENSIONS:

