



# One man, one machine.

- ✓ Cold water
- ✓ No brushing
- ✓ 15 minutes
- ✓ Clean truck

There is one system that is designed to safely clean and brighten your truck or fleet without damage to glass, chrome or polished aluminum surfaces. It's easy, safe and economical to use. The operator doesn't control the mixture of product being used. And you don't need hot water to get your truck clean!

## GCA Largo Two-Step Systems

One of the most noticeable characteristics of road film is the particularly tight bond it forms with the vehicle surface. The most common theory today is that bond is electrostatic in nature and most cleaning approaches revolve around breaking this peculiar bond.

### Two-Step Cleaning In Action

Road Film Removal is complicated by the fact that no two road films are alike. The soil deposited on a vehicle is sort of a history of the vehicle's travels - oil and grease; the exhaust from passing vehicles; pollen, dust, carbon, acid from catalytic converters, ice, snow, sand, mud, fall-out, and everything else you could imagine- Including the dirt graffiti from parking lot artists.

### The experts agree

The two-step acid/alkaline cleaning method is the most effective method of breaking this bond and removing the road film from a vehicle's surface. The two-step method uses the acidic solution to set up a static charge on the vehicle's surface and penetrate the road film. The alkaline solution, which is applied over the acidic solution, is attracted to the acid and the entire surface evens itself out over the vehicle surface. The surfactant portion of the alkaline detergent burrows into the grease, oil, and other contaminants, lifting them off the surface on a microscopic level. Road Film is then simply rinsed off the surface using high-pressure rinse water.

# Largo

**CLEANING SYSTEMS**

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# Largo

GCA Largo Cleaning Systems know a lot about cleaning over-the-road vehicles. In fact, we have over 35 years experience in cleaning them, with the safest, easiest, most economical truck cleaning system ever made.

## And...

You, too, can clean your trucks **in half the time and at half the cost** with our system. Whether painted, FRP, stainless or polished, we know how to clean them right. You will be pleased and happy with the results. So will your pocketbook!

Whether a truck owner or a fleet owner, you recognize the energy-saving advantages of cold water and know the labor economy of “no brushing”. Clean trucks protect your image and prevent vehicle deterioration. Well-maintained vehicles are clean vehicles and we can show you how you could be putting money that is going down your drain back into your pocket.



A lot of folks talk about two-step cleaning trucks, vans, trailers, feed haulers, livestock haulers, commercial buses, refers, and tankers. They all have the same mind set on how to do it. Pretty much buy a hot water pressure washer, add a down stream low pressure injector for applying Aluminum Brightener, and adjust the soap metering valve on the machine until it looks like it's cleaning good. You may vary a little on this application, but more than likely, that's how you are washing your vehicles.

**We manufacture and sell hot water pressure washers. A lot of our units go into the trucking industry to wash trucks.**

**But absolutely nothing can clean trucks better than a Largo Two-Step Machine, using cold water with proven, safe, economical, and biodegradable Largo Detergents.**

## The Equipment

Precise chemical injection means economy. Our Two Step Machines are designed to accurately meter the cleaning solutions to clean the vehicle surfaces and neutralize the run-off. The operator does not control the detergent solutions. With this capability, waste, misuse and damage to the vehicles does not occur.

CAT pumps are used in our Two Step Machines for one reason: they work. We have tried all the other industrial pumps that work well with our hot water equipment, but they cannot handle the chemical products like a CAT. The reason is the way the check valves are seated into the pump head (o-ring and split ring) and the seals held in place with the packing nut. With our cleaning solutions neutralizing each other, the pump head gives longer life, which adds to the value of using genuine Largo Cleaning Products.

**Safety:** Our Electric Two Step Machines feature low 24VAC controls. The transformer is fused both on the incoming and low voltage controls. In-line GFCIs are available or you may use your GFCI protected circuit. Single and three-phase units **MUST** be properly grounded. Installation wiring must meet all national and local electrical codes provided by an approved electrical installer.

# Largo

## Cold Water Electric



### STANDARD FEATURES

- Belt Driven CAT Pump
- Precise Chemical Injection
- Industrial Strength Electric Motor
- Color Coded Chemical Pick Up Tubes
- Powder Coated HD Frame
- Hour Meter
- Indicator Lights on Control Panel
- Safe 24 Volt Controls
- Stainless Steel Float Tank and Cover
- 7' Stainless Steel Wand

### OPTIONS:

- Stainless Cabinet
- Floor Stand
- Wall Platform
- 4 Wheel Cart
- Pulsation Dampener - CAT
- Low Water Shutoff
- Trigger Gun Control
- Cheater Box
- Remote Wall Mount Fixture
- 18-5 Cable for Remote
- 80', 100' or 120' Remote Hose
- 3' or 5' Stainless Wand
- Add a Two-Step Hot Box

MODEL	GPM	PSI	HP	VOLT	PH	AMPS
310	3.0	1000	2	115	1	20
417	4.0	2000	5	208/230	1	25
417-3	4.0	2000	5	208/230/460	3	16/8
515	5.0	1500	5	208/230	1	25
515-3	5.0	1500	5	208/230/460	3	16/8
520-3L	5.0	2000	7.5	230/460	3	25/15

## Cold Water Gas Engine

### STANDARD FEATURES

- Belt Driven CAT Pump
- Hour Meter
- Powder Coated HD Frame
- 7' Stainless Steel Wand
- Precise Chemical Injection
- Color Coded Chemical Pick Up Tubes
- Indicator Lights on Control Panel
- Stainless Steel Float Tank (Removable)

MODEL	GPM	PSI	HP	DRIVE	ENGINE
420B	4.0	2000	13	Belt	Honda
420C	4.0	2000	13	Clutch	Honda
530C	5.0	2000	18	Clutch	Vanguard
530CS	5.0	2000	20	Clutch	Honda



### OPTIONS:

- Pulsation Dampener - CAT
- Low Water Shutoff
- Cheater Box
- 80', 100', or 120' Remote Hose
- 3' or 5' Stainless Wand
- Wireless Remote
- Add a Two Step Hot Box

## The Remote Hose Selection Station or Wireless Remote Control?

### The Remote Hose

This is the best way to use the Largo Two Step Machine. The operator has all the controls in his hand. He can start, stop, select either one of two detergents or rinse from the remote gun. Since it is the most-used portion of the system, it must be maintained and protected. Abuse of the remote hose decreases production and increases cost. Dragging the hose over concrete surfaces eventually creates a repair; however, the most common problems - running over the hose, getting it hung in the framework, wheels or chassis, stretching or pulling on it when it is hung up - can and should be avoided. If you consider the user's time and apply that factor, the remote hose is still more economical to use.

With proper care, the remote hose in heavy use will cost less than \$1.75 per day.

### The Selection Station

The Selection Station allows the use of a standard high-pressure washer hose with the controls located in a water-tight control box located in the wash bay. The operator must go to the station to start / stop / select a detergent or rinse. This may actually cost more than \$1.75 per day.

### The Wireless Remote

Consists of a receiver integrated into the machine and a battery powered transmitter. Using a standard pressure washer hose, open gun and lance, the operator may select start, stop, chem 1, chem 2 or rinse up to 400 ft away from the machine. Battery life varies between 3 and 6 months depending on use.



# Largo



## The Cleaning Products

Is there one cleaning solution for all trucks, trailers, vans and buses? Experts say NO. You don't clean and maintain the look on Polished Aluminum Tank Trucks with the same products you would use to clean Stainless Steel Trailers, Livestock Haulers or Feed Trucks.

### #1: Acid Prep

This product is not a catch-all product. The #1 product is selected based on the vehicles being cleaned. Select the proper product from our product list.

<b>#1 Acid Prep 4410</b>	A true HF #1 detergent used in a two-step process to pre-treat road film, diesel soot and aluminum surfaces. Designed to use in high-pressure two-step systems with a dilution ratio of 25:1. Road film and grime as well as diesel soot are removed without brushing when used in conjunction with Largo #2 type detergent. #1 Acid Prep quickly brightens aluminum surfaces, neutralizes completely with Largo #2 product, can be used with hot or cold water at high or low pressure and is economical with a dilution of 25:1.
<b>#1A Acid Prep 4411</b>	A phosphoric/citric #1 detergent used in the two-step process to pre-treat road film, bugs, diesel soot and clean aluminum surfaces on vehicle surfaces. #1A Acid Prep is completely safe on all surfaces. #1A Acid Prep was designed to use in high-pressure two step systems with a dilution ratio of 25:1. When used in conjunction with any Largo #2 type detergent, road film, bugs, and diesel soot are removed without brushing. #1A Prep quickly brightens aluminum surfaces, neutralizes completely with Largo #2 product, can be used with hot or cold water at high or low pressure, and is economical with a dilution of 25:1.
<b>Trail Brite 4452</b>	An acidic blend enhanced with special wetting agents and emulsifiers used in two-step process, Trail Brite rapidly removes road film, bugs and diesel soot and cleans aluminum surfaces on vehicles without brushing when used in conjunction with any Largo #2 type of detergents. Quickly brightens aluminum. Designed to use in high-pressure systems with a dilution ratio of 25:1. Trail Brite neutralizes completely with our #2 product. Uses: Aluminum trailers, painted trailers, tankers, reefers, dump beds, fuel tanks, pontoons, and more.
<b>Mirror Brite 4453</b>	Mirror Brite Polished Aluminum Maintainer is an exceptional product designed to "maintain" that polished aluminum appearance on wheels, fuel tanks, tank trucks, feed trucks and fuel trucks. Mirror Bright is a non-etching cleaner and brightener that with continued use maintains the appearance of polished aluminum surfaces. Does not turn the aluminum surface "white, satin, or dull" like Aluminum Brighteners will. Does not contain hydrofluoric acid, ammonium bifluoride, hydrochloric or sulfuric acid. It may be used in hot or cold water systems with either low or high-pressure spray. We find that it works best when used in our Two-Step Systems along with our 4425 Super Clean Truck Wash. It may be used on most surfaces not harmed by water.
<b>Salt Buster 4413</b>	Salt Buster safely removes and neutralizes road salt from snow plows, loaders, graders, dump trucks, transit vehicles, rolling stock, buses, commercial and municipal vehicles and equipment. Salt Buster may be applied with low-pressure applicators on pressure washer, undercarriage applicators or foaming device. Easy and simple to use.

### #2: Alkaline Neutralizer

This product is chosen to work with the selected #1 Acid Prep. Select the proper product from our product list.

<b>Grand X 4420</b>	Grand X is the top-of-the-line detergent for cleaning trucks, trailers, heavy equipment, farm equipment, greasy frame rails, engines, parts and most all other painted surfaces. Grand X is a one-step alkaline-based detergent fortified with the highest quality surfactants, polymers, emulsifiers and wetting agents in the industry. Use it hot or cold, road film and diesel soon melt away without brushing when diluted 25:1. Grand X is the product of choice in the two-step cleaning process. This product is excellent for removing bugs and soil from over the road vehicles.
<b>Truck Wash 4422</b>	Truck Wash #4422 is a concentrated alkaline cleaner with emulsifiers and grease cutters. When used in Two-Step Systems with #1 or #1A, #2 Truck Wash will remove road film and bugs without brushing. Used in hot systems, #2 Truck Wash will remove road film and oily spots with ease. Truck Wash is safe in all cleaning systems, whether using as a one- or two-step application with hot or cold water. Works very well in hard water.
<b>Road Film Remover 4463</b>	RFR (Road Film Remover) Truck Wash is a worry-free premium vehicle wash. Designed for use in Two-Step Equipment or hot water systems, RFR gets the job done even as a stand-alone product. RFR will not hurt any surface that water is safe on. Removes bugs, dirt, road film, oil and grime accumulated by over-the-road vehicles. RFR is safe on all commercial buses, private carriages, large cars, and all premium decked-out vehicles.
<b>Super Clean Truck Wash 4425</b>	Super Clean Truck Wash is an alkaline-based detergent fortified with state-of-the-art emulsifiers, gloss enhancers and wetting agents. Hot or cold, Super Clean Truck Wash is designed to rinse quickly and dry without streaking or spotting the finish, will quickly disperse road film, bugs and diesel soot without brushing. Use as a one-step or two-step detergent when cleaning buses, cars, trucks, trailers, RVs, aluminum or vinyl siding. No need to worry about anodized or polished aluminum here; Super Clean Truck Wash is non-caustic and is safe on any surface that is not affected by water.

### SPECIAL APPLICATION PRODUCTS

<b>Cleaner Degreaser 4400</b>	Cleaner Degreaser is a heavy-duty water based alkaline detergent fortified with solvents and special emulsifiers designed to quickly cut through grease, oil, hydraulic fluid, and other soils from most surfaces. May be used in Two-Step Machines to pre-treat frames, engine compartments, fifth wheels, and other grease-saturated areas. This is a heavy duty, alkaline-butyl product and must be used with care. Soft paint, anodized or polished aluminum will be damaged.
<b>Super Heavy Duty 4440</b>	Largo 4440 Super HD Detergent is an alkaline cleaner for use in cleaning heavy soil, grease and dirt. This product may be used hot or cold in removing heavy build-ups, however, hot water systems enhance the caustic nature of Super Heavy Duty Detergent. Largo 4440 is ideally suited to clean heavy equipment, garbage trucks, and dumpsters. Exterior cleaning of trailers where chicken fat, diesel soot, and oils accumulate are easily cleaned. Used hot, this product will dissolve and emulsify fats and grease. Cold pre-wash solutions may be used safely on painted trailers for complete removal of stubborn soils.