

SECTION V-2 ... DELCO HY-POWERS

IDENTIFYING DELCO HYDRAULIC ACTUATED UNITS

ROD LENGTH - VISUAL DIFFERENCE

(MEASUREMENT IS TAKEN FROM FIREWALL SIDE MOUNT TO END OF ROD)

18001810X - 7" Push Rod. Flow Switch has One Prong with Brass Nut.

First Design Rod is Staked and therefore not removable.

Second Design - Rod is Hollow and removable.

18003998X - 5 1/2", Threaded and Staked. (Non-removable)

18014080X - 9" Fixed Eyelet Rod. Flow Switch is Two Prong, 1/2" Rod

NOTE SIMILARITIES:

- **18001810 & 18003998** BODY AND CASTING ARE THE SAME. CASTING #2623435

NOTE DIFFERENCES:

- **18001810** IS A GM APPLICATION & **18003998** IS A IHC APPLICATION.
Exception: Customer may have GM unit on IHC Application. To advise correctly, never rely on the casting number alone.
- **18001810** -Inlet has an inverted flare. It is flared at the end of lines. Flow Switch is one prong with a brass nut to lock into position.
- **18003998** - Push rod is threaded, jointed and always staked. Inlet has a clevis that slides up and down on the line. Adjust the brass jam nut and lock into place.

18001810 OLDER UNITS COMPARED TO NEWER UNITS.

- **OLDER UNITS** MUST BE TAKEN COMPLETELY OUT. Your rod may be fixed or eyelet, take it off of the brake pedal. **If they have a rubber boot, they are not staked, and are removable.** Make sure to readjust upon re-installing to the brake pedal for the unit to function properly.
- **NEWER UNITS** ARE REMOVED BY LOOSENING THE FOUR BOLTS, THEN PULLED OFF OF THE TRUCK. The rod is hollow and has another threaded rod that attaches to the Brake Pedal.

Most units used today are of the newer style, but for our customer's convenience, we ship all units with a Rod. If replacing an older unit, a Rod must be available for installation.

18014080

- This unit is unique in that it has a different Casting Number of, 18015765 while the body style is like the other two units.
- The 18014080 has a fixed eyelet rod (measures 9" to center of fixed rod eyelet) and and

four fixed bolts coming out the back. The unit is sealed differently by having a BrassTube Seat (not inverted) that accepts an o-ring to lock into position.

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IDENTIFYING DELCO HYDRAULIC ACTUATED UNITS CONTINUED

Push rod is 7" and has a hollow rod (push rod comes out). **NOTE:** An earlier design has a staked (non removable) push rod. The first design is less popular than the second design. The entire unit is removed on first design, unlike the body only on the second design. Push rod length & design plus inverted flare port will ID unit.

18001810X

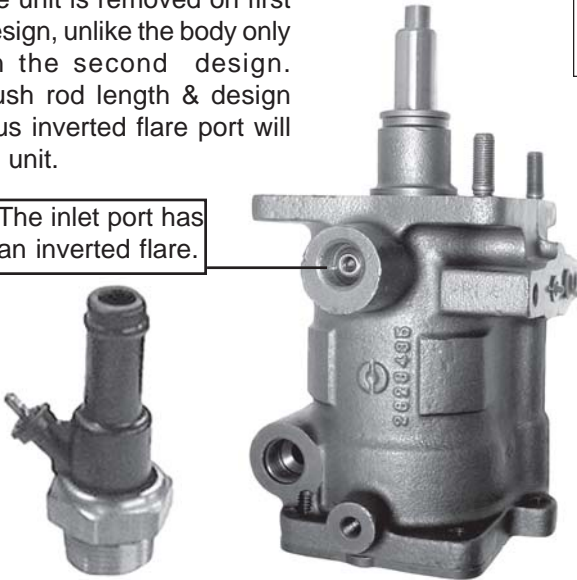
CASTING NUMBER IS THE SAME: 2623435

Both units use the same flow switch! One prong & brass nut, pictured w/ units.

18003998X

5 1/2" Push Rod is threaded and always staked.

The inlet port has an inverted flare.



All units have the same body style.

HELP TO ID WITHOUT CASTING NUMBER OR PUSH ROD ...

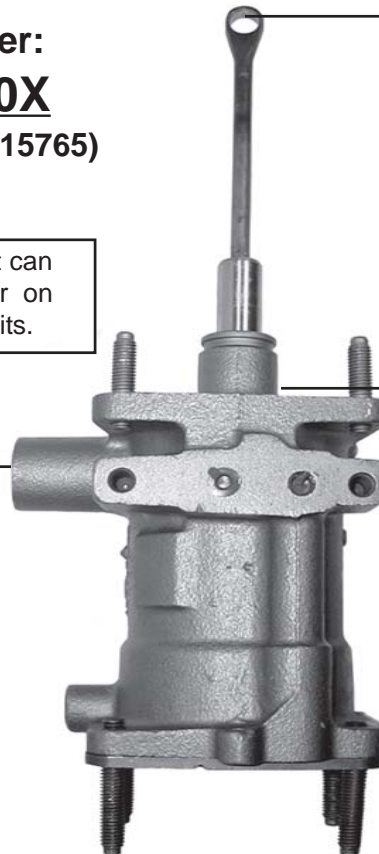
When viewing a unit w/out a push rod, & you cannot ID the unit by body, Do the following: With a flash light, look into the hollow rod. **If there is a place to clip a snap ring, the unit is an 1801480.**

If the bottom of the hole has no place for a snap ring, the unit is an 18001810.

Part Number: 18014080X
(CASTING # 18015765)

Inlet port can be longer on some units.

9" Push rod that is fixed and has eyelet.



Flow Switch, Two prong with plug in connection



PART NO. 18020593

A PUSH ROD AND A FLOW SWITCH ARE BOXED WITH EACH DELCO UNIT SOLD.

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DELCO Hy-Power Units Identification

The 18001810 has two designs. Both have the same body and the same casting number of 2623435.

18001810X First Design

- **OLDER MODEL WITH STAKED ROD (NON-REMOVABLE). THE ENTIRE UNIT MUST BE REMOVED, THEN EASILY UPGRADED TO SECOND DESIGN.**
- **THIS UNIT IS LIKE THE 18003998X, SAME BODY, CASTING NUMBER. AND BOTH PUSH RODS ARE THREADED AND STAKED. DIFFERENCE IS FOUND IN THE PUSH ROD LENGTH. 18001810X IS 7" AND 18003998X IS 5 1/2" AND JOINTED.**
- **IMPORTANT - FIRST DESIGN 18001810 MAY BE UPGRADED TO SECOND DESIGN.**

THESE PARTS ARE INCLUDED WITH THE PURCHASE OF AN 18001810X

Booster

Tapered Spring and Check Valve must be properly installed before bolting Pump and Motor Assembly to New Unit.

Solid end of Valve fits into small end of Spring and Assembly slides into hole. The opposite end of valve **MUST** seat proper in the smaller hole inside of the spring port. If needed, locate this smaller hole with a flashlight.

PART NUMBER 18001810X

Second Design Pictured (MOST POPULAR)

SECOND DESIGN FEATURES:

**Hollow Hole - The Push Rod comes out.
Casting Number - 2623435
Rod Length - 7"**

Flow Switch, One Prong with Brass Nut
PART NUMBER: 501830C91

PUSH ROD AND FLOW SWITCH ARE INCLUDED WITH ALL 18001810X UNITS.

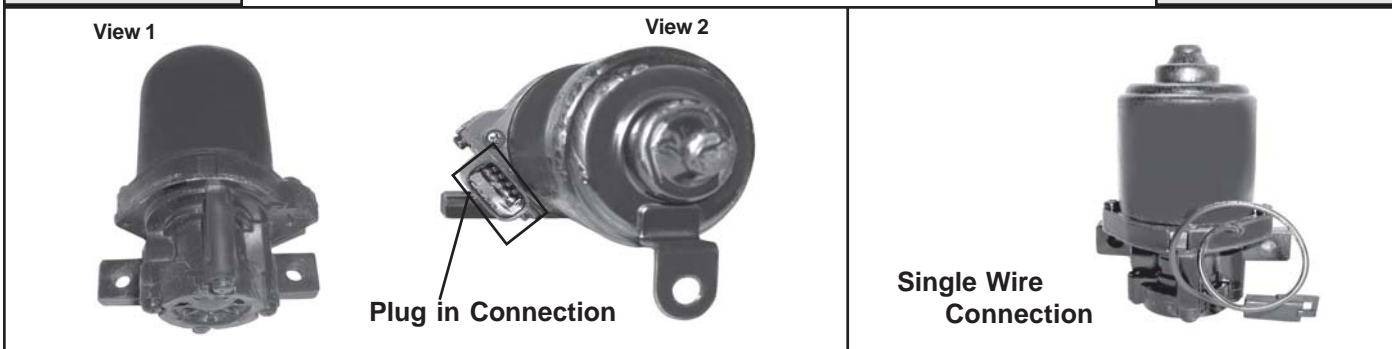
PEDAL ROD ADJUSTMENT MAY BE NECESSARY WHEN INSTALLING THE 18001810X.

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CASTING NUMBER	PART NUMBER	SHIP WEIGHT	DESCRIPTION	Flow Switch	PEDAL ROD LENGTH	APPLICATION
2623435	18001810X	19 LBS	HY-POWER	501830C91 (1 Prong)	7" Threaded	GM OSHKOSH
2623435	18003998X	19 LBS	HY-POWER	501830C91 (1 Prong)	5 1/2" Threaded	IHC NAVISTAR
18015765	18014080X	19 LBS	HY-POWER	18020593 (2 Prong)	9" to center of fixed rod eyelet	TOPKICK & KODIAK, OSHKOSH
DELCO HY-POWER MOTORS						
-	18006974X	4 lbs	HY-POWER MOTOR Single Wire Connection	N/A	N/A	USED WITH PART NUMBERS 18001810 & 18003998X
	18015776X	4 lbs	HY-POWER MOTOR Two Terminal Plug In Connection	N/A	N/A	USED WITH PART NUMBER 18014080
<i>ALL DELCO HY-POWER UNITS SOLD WITH A PUSH ROD AND FLOW SWITCH. MOTORS SOLD SEPERATE!</i>						

Part #: 18015776X

Part #: 18006974X



Part Number 18001810X

Part Number 18003998X

Part Number 18014080X

PART NO. 501830C91
Flow Switch

PART NO. 501830C91
Flow Switch

PART NO. 18020593
Flow Switch

7" Push Rod
Can be Staked, or
Hollow.

Threaded
5 1/2" &
Always
Staked.

9"

