

Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

Godiva Limited recently received a singular report of a vehicle electrical issue which had an effect on our 1”BSP Electro- Pneumatic Ball Valve Part number: 65532. This issue allowed the pump to continue to rotate and produce low pressure water but disabled part of the panel and/or electrical HP control switch. The disabling of this switch removed electrical power from the valve. During this failure mode mechanically the High Pressure (“HP”) valve defaulted to the closed position and was unable to deliver water at the HP outlet without intervention by manual override. Low pressure delivery continued as expected. Since 2008, the Electro- Pneumatic Ball Valve has had an optional High Pressure (HP) electro-pneumatically controlled ball valve to turn the high-pressure water from the pump on and off. This HP electro-pneumatically controlled ball valve has been used in the Godiva World Series, Prima and Prima CAFS, since 2008.

The reported event has not been associated with any personal injuries or property damage. Godiva is nevertheless providing this technical update to advise customers of this event and to provide the recommendations below.



Failure to follow these recommendations may cause product or property damage and/or personal injuries.

Effective Date:	March 2023
Subject:	Change to Mechanical Assembly of Electro-Pneumatic Valve (Part Number 65532)
Unit(S) Effected:	Godiva World Series, Prima and Prima CAFS Manufactured Since 2008

The electro-pneumatic valve that has been used in the Godiva World Series, Prima and Prima CAFS since 2008 (part number 65532) is electrically switched via a rocker switch or similar switch at the pump panel as fitted by Godiva or elsewhere at the truck as fitted by the OEM. This electrical switch activates a solenoid to control the valve in one direction and upon on deactivation, valve is returned to a default position mechanically. The switch and valve assembly have proven to be reliable under normal operating conditions.

CHANGE TO MECHANICAL ASSEMBLY

After receiving a single report of an electrical issue as described above, Godiva conducted its own investigation and risk assessment for use of the valve 65532. The result of this assessment is a change to the mechanical assembly of valve 65532 for all future products, which will force allow the HP line to default “wet” and allow the continued delivery of water or foam. This change is facilitated by a change of the wiring harness and connection to the operating switch.

For future application, installation manuals will include instructions to switch between a “wet” or “dry” default mode.

RISK ASSESSMENT FOR PRODUCTS IN THE FIELD ADVISED

Godiva Ltd. Charles Street

Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.

Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

Users of Godiva World Series, Prima and Prima CAFS with HP electro-pneumatic valve 65532 should immediately follow the work instructions provided once risk assessment results have been generated.

Users of Godiva World Series, Prima and Prima CAFS with HP electro-pneumatic valve 65532 should immediately follow the work instructions provided with this service bulletin.

The change of default state of the HP electro-pneumatic valve as described above can be made relatively easily. The work instructions involve a small amount of mechanical reconfiguring at the valve and a small change in the wiring connections to the operating switch. The work does not involve specialist skills beyond that of a typical skilled service engineer.

If there are additional questions or concerns regarding the product changes listed in this bulletin, please contact Godiva at your nearest location directly at the information listed below.

Godiva Ltd. Charles Street

Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.

Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

1.1. CHECK THE SETTING

- Remove the hose / plumbing for visible access to the ball valve
- Power the vehicle, ensure the pump has an electrical and pressurised air supply
- Check the Switch Operation
 1. Ball valve open and switch open
 2. Ball valve closed and switch closed



Open



Closed

- Retain air pressure but remove electrical supply (disconnect the terminal block)



In most cases the ball valve will be closed in this condition. Not all switch wiring is by Godiva, the check should be carried out to confirm the set up. This confirms the default condition is “dry”, the following instructions allow the valve to be reconfigured to a “wet” default.

As per the bulletin, Godiva will be supplying the set up to default the ball valve open with the electrical supply removed. The follow steps will replicate the latest Godiva build.

Godiva Ltd. Charles Street
Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

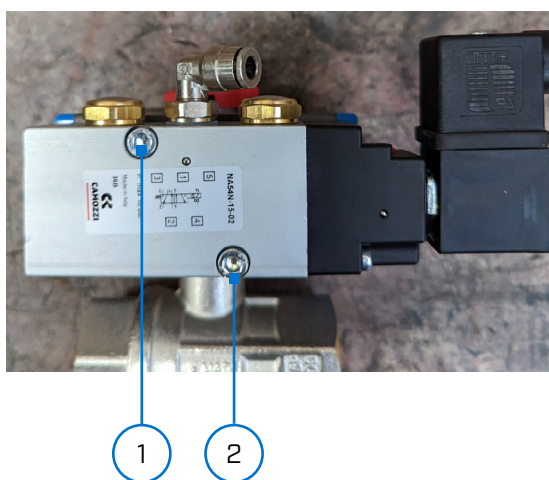
Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.

Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

1.2. CHANGING THE DEFAULT / POWER LOST VALVE POSITION

- Remove air pressure and supply and Remove electrical power supply
- Remove the Solenoid Valve by removing 2x Screws with a 4mm Allen key



Godiva Ltd. Charles Street

Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

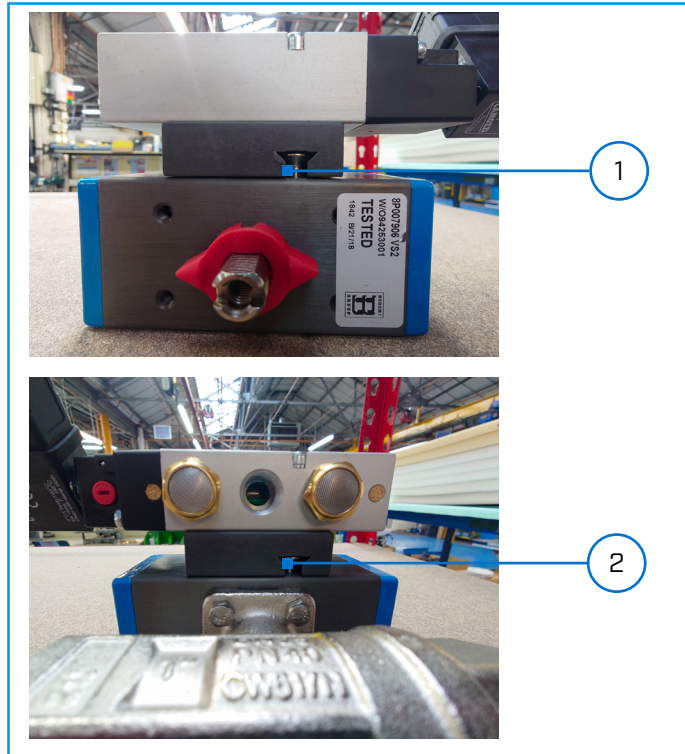
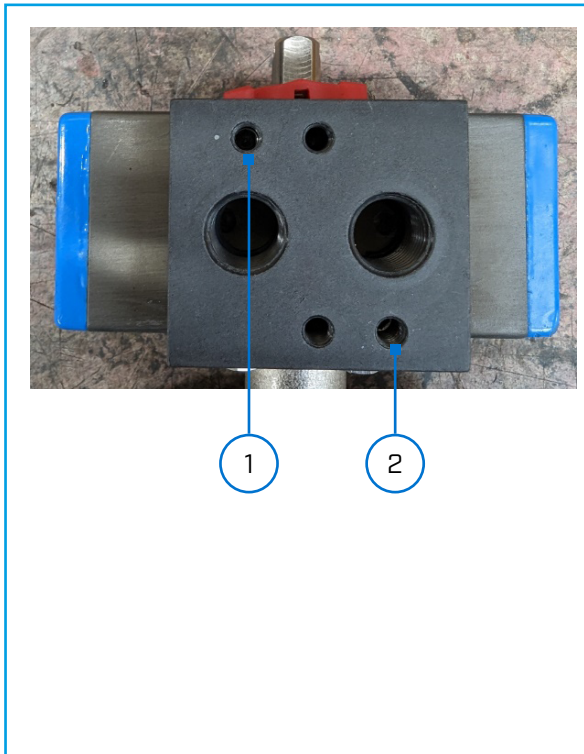
Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.



Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

- Remove the Manifold Plate by removing 2x Screws with a 3mm Allen key



- At the rear of the manifold
 - Set the Gasket orientation as shown below
 - Refit the manifold plate



Godiva Ltd. Charles Street
Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

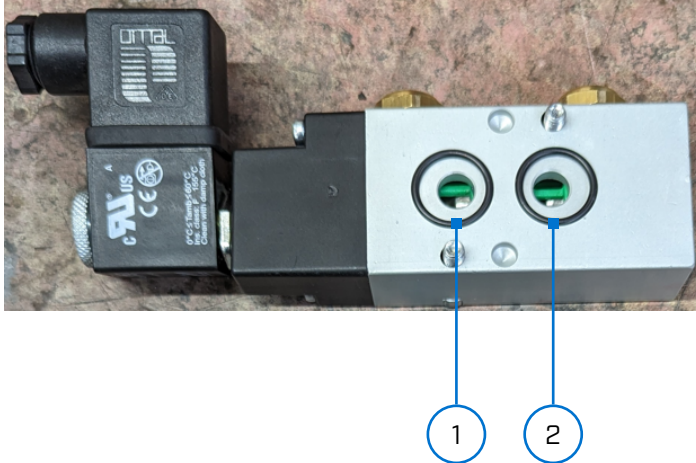
Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.



Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

- Check O-rings on solenoid are in place then refit solenoid



- Refit the Solenoid



- Test the assembly

1. Reconnect the air supply and pressurise
2. Leave the electrical switch disconnected the ball valve will default to the open position



Godiva Ltd. Charles Street

Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.

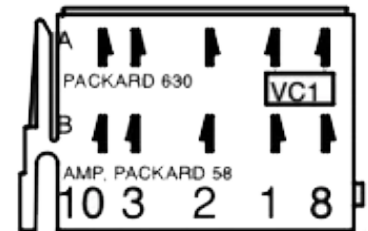
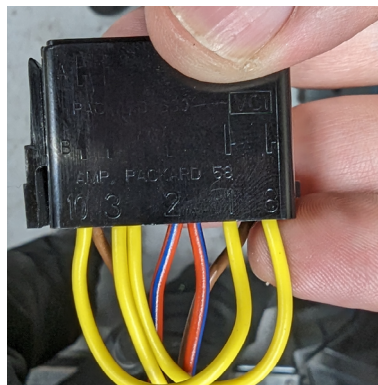
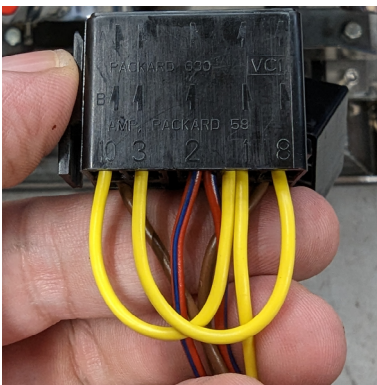


Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

1.3. RE-WIRE THE HARNESS

- Disconnect the harness from the rear of the switch
- Switch pin from location 1 with pin from location 3
- Switch pin from location 8 with pin from location 10



- Refit the harness



Note: The instructions above apply to all Godiva supplied switches and panel combinations. Not all switches are supplied by Godiva. Refer to OEM instructions where applicable.

Godiva Ltd. Charles Street
Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.

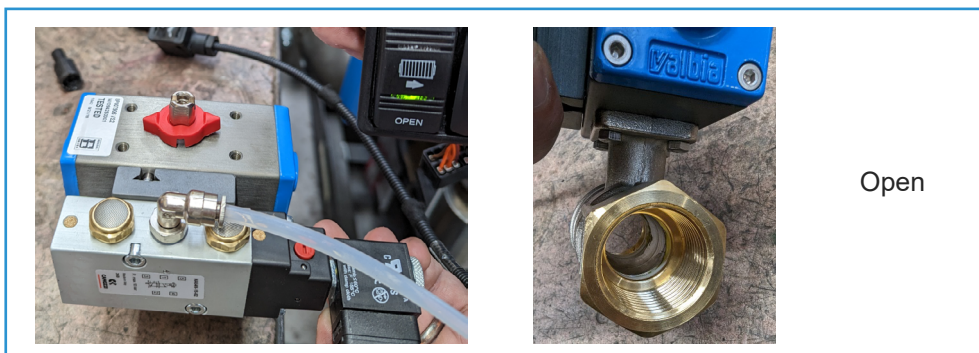
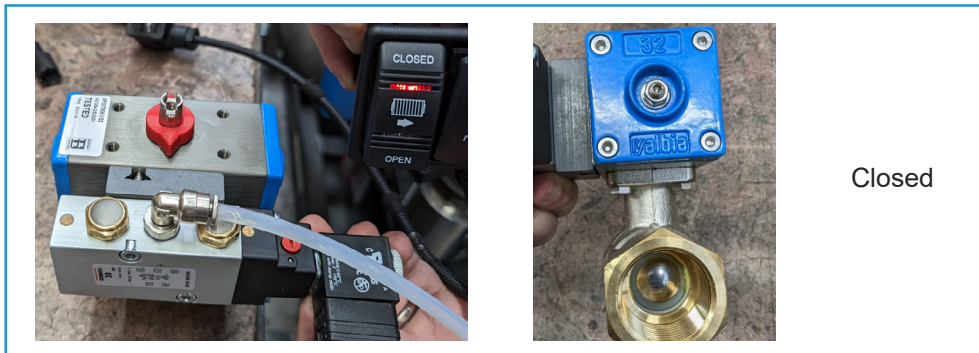


Godiva Service Bulletin 90

Electronic Pneumatic Ball Valve Reconfiguration

1.4. 4. TEST THE SWITCH

- Connect airline and harness to solenoid
- Supply pressurised air and electrical power
- Operate the switch, ball valve should open and close with the switch



1.5. RE-ASSEMBLE ALL HOSES AND CONNECTIONS AT THE VEHICLE

- Test the pump, switch and valve operation
- Test by disconnecting the switch from harness, the valve will default to open and water supply is unbroken

Godiva Ltd. Charles Street
Warwick,
CV34 5LR,
UK

Contact Information

Tel: +44 1926 623600
Email: godivacustomerservice@idexcorp.com
web: www.godiva.co.uk

Sheet Part Number

GP/370 Issue 1
22/03/2023

Godiva Ltd. policy is one of continuous development. We therefore reserve the right to amend specifications without notice or obligation.