

FL Indicator Pin Monitor

Single Line, PDI

General

The FL PDI Indicator Pin Monitor utilizes high quality sensors with built in LED's. The sensor will read movement of the FL PDI indicator pin. This ensures that lubricant has reached the FL PDI. It will allow the user to monitor FL PDI/pin operation remotely from any PLC.

Application

The FL PDI Indicator Pin Monitor is available for any FL Series Injectors (FL30/40/1/11).



Technical Data

Sensor

Rated Operating Distance	1.6 mm	Polarity Reversal Protection	Built-in
Supply Voltage	10-36 VDC	Power On Reset	Built-in
Output Current	100 mA	IP Rating	IP-67/IP-68
LED	Built-in	Material	Stainless steel V2A (housing)
Temperature	-13°F to 158°F (-25°C to 70°C)	Connection	M12 connector
Output / Polarity	N.O. / NPN		
	N.O. / PNP		

How to Order

Name	Description	NPN Part #	PNP Part #
FL Indicator Pin Monitor Kit	For FL30/40	37297	37297-1
	For FL1 (FL-44)	37298	37298-1
	For FL-11 (FL-45)	37299	37299-1

Note: Minimum output setting will be slightly higher when using monitor kit.

When ordering, specify by name, description and part number, e.g. FL Indicator Pin Monitor Kit, For FL1, Part #37298.

Service Parts

Item	Description	Part #
1	Sensor NPN	37289
	Sensor PNP	37289-1
2	Bracket: For FL1 & FL30/40	37295
3	Bracket: For FL-11	37296
4	FL1 adjustment screw	37294
5	FL-11 adjustment screw	37293

Accessories

Description	Part #
Cable (Straight, 10 meters long)	76928-2863
Cable (90 Deg, 10 meters long)	76928-2833
Note: Cables supplied separately	

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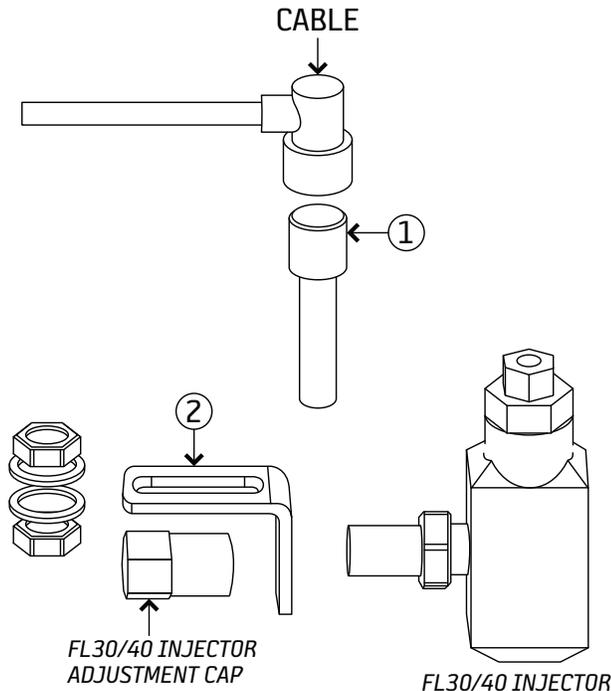
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 Morrisville, NC 27560

Installation

On FL30/40 Injectors That Have Been Installed and Adjusted



- + Remove the FL Injector adjustment cap. Do not remove or move the adjustment cap retaining nut. The adjustment cap retaining nut should be turned in 1-2 turns to account for the thickness of the bracket.
- + Place the FL Indicator Pin Monitor bracket (2) on the FL Injector where the adjustment cap was removed. Replace the adjustment cap. Orient the bracket so that the FL Indicator Monitor sensor (1) can be installed as shown and the cable can be attached to the sensor in the desired position. Tighten the adjustment cap retaining nut, being careful not to over-tighten the nut and not to change the orientation of the bracket.
- + Turn one of the two retaining nuts, supplied with the FL Indicator Pin Monitor sensor, onto the sensor and then place one of the two supplied star lock-washers onto the sensor. Insert the sensor with the sensing end pointing toward the FL30/40 Injector indicator pin, through the FL Indicator Pin Monitor bracket. Then place the second star lock-washer on the sensor and turn the second nut onto the sensor. Adjust the position of the nuts and the sensor so that the sensing end of the sensor fits slightly in front of the adjustment cap and slightly above but not touching the FL30/40 injector indicator pin. Then tighten the retaining nuts on the sensor.
- + Connect the FL Indicator Pin Monitor cable to the sensor, and make appropriate wiring connections to your PLC or other monitoring device. Refer to wiring guide on page 1.

On FL30/40 Injectors That Have Not Been Installed and Adjusted

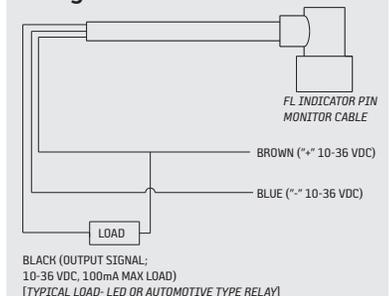
Refer to and follow the FL30/40 Injector installation and adjustment instructions, and then follow the FL Indicator Pin Monitor instructions listed above.



ATTENTION

Refer to Service Parts chart on page 5 for part #'s.

Wiring



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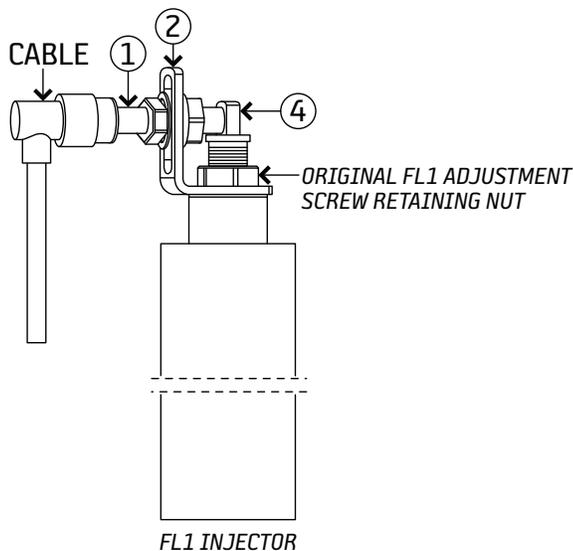
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On FL1 (FL44) Injectors That Have Been Installed and Adjusted



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Refer to Service Parts chart on page 5 for part #'s.

- + Measure the distance from the top of the original FL1 Adjustment Screw Retaining Nut to the end of the threads on the original FL1 Adjustment Screw. Remove the original FL1 Adjustment Screw and FL1 Adjustment Screw Retaining Nut.
- + Place the FL Indicator Pin Monitor Bracket (2), with the round hole over the adjustment screw hole, on the FL1 Injector.
- + Turn the original FL1 Adjustment Screw Retaining Nut onto the modified FL1 Adjustment Screw (4) to approximately the same position that it was on the original FL1 Adjustment Screw. Add 1 to 2 full turns to account for the thickness of the bracket.
- + Turn the modified FL1 Adjustment Screw and retaining nut assembly into the FL1 Injector through the FL Indicator Pin Monitor Bracket to the approximate depth.
- + Align the FL Indicator Pin Monitor Bracket and modified FL1 Adjustment Screw so that the FL1 Indicator Pin Sensor (1) can be installed through the FL Indicator Pin Monitor Bracket slot and into the round opening of the modified FL1 Adjustment Screw, and that the FL Indicator Pin Monitor Cable will be attached in the desired orientation. Then tighten the Adjustment Screw nut, being careful not to over-tighten or change the alignment of the bracket and adjustment screw.
- + Turn one of the two retaining nuts supplied with the FL Indicator Pin Monitor Sensor onto the sensor, and then place one of the two supplied star lock-washers onto the sensor. Insert the sensor with the sensing end pointing toward the FL1 Injector, through the FL Indicator Pin Monitor Bracket, then place the second star lock-washer on the sensor and turn the second nut onto the sensor. Adjust the position of the nuts and the sensor so that the sensing end of the sensor fits into the round opening of the modified FL1 Adjustment Screw. The tip of the sensor should be slightly in the hole and close to, but not touching, the FL1 indicator pin. Tighten the retaining nuts on the sensor.
- + Connect the FL Indicator Pin Monitor Cable to the sensor and make appropriate wiring connections to your PLC or other monitoring device. Refer to the wiring guide on page 1.

On New FL1 Injectors That Have Not Been Installed and Adjusted

Refer to and follow the FL1 injector installation and adjustment instructions, and then follow the FL Indicator Pin Monitor instructions listed above.

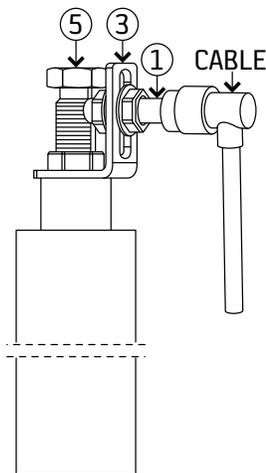
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On FL-11 (FL-45) Injectors That Have Been Installed and Adjusted



FL-11 INJECTOR

- + Measure the distance from the top of the original FL-11 Adjustment Screw Retaining Nut to the end of the threads on the original FL-11 Adjustment Screw. Remove the original FL-11 Adjustment Screw and FL-11 Adjustment Screw Retaining Nut.
- + Place the FL Indicator Pin Monitor Bracket (3) with the round hole over the adjustment screw hole on the FL-11 Injector.
- + Turn the original FL-11 Adjustment Screw Retaining Nut onto the modified FL-11 Adjustment Screw (5), to approximately the same position that it was on the original FL-11 Adjustment Screw, plus 1 to 2 full turns to account for the thickness of the bracket.
- + Turn the modified FL-11 Adjustment Screw and retaining nut assembly into the FL-11 Injector through the FL Indicator Pin Monitor Bracket to the approximate depth.
- + Align the FL Indicator Pin Monitor Bracket and modified FL-11 Adjustment Screw so that the FL-11 Indicator Pin Sensor (1) can be installed through the FL Indicator Pin Monitor Bracket slot and into the round opening of the modified FL-11 Adjustment Screw, and that the FL Indicator Pin Monitor Cable will be attached in the desired orientation. Then tighten the adjustment screw nut, being careful not to over-tighten or change the alignment of the bracket and adjustment screw.
- + Turn one of the two retaining nuts supplied with the FL Indicator Pin Monitor Sensor onto the sensor, and then place one of the two supplied star lock-washers onto the sensor. Insert the sensor with the sensing end pointing toward the FL-11 Injector, through the FL Indicator Pin Monitor Bracket, then place the second star lock-washer on the sensor and turn the second nut onto the sensor. Adjust the position of the nuts and the sensor so that the sensing end of the sensor fits into the round opening of the modified FL-11 Adjustment Screw. The tip of the sensor should be slightly in the hole, and close to but not touching the FL-11 indicator pin. Tighten the retaining nuts on the sensor.
- + Connect the FL Indicator Pin Monitor Cable to the sensor, and make appropriate wiring connections to your PLC or other monitoring device. Refer to the wiring guide on page 1.

Installation On New FL-11 Injectors That Have Not Been Installed and Adjusted

Refer to and follow the FL-11 Injector installation and adjustment instructions, and then follow the FL Indicator Pin Monitor instructions listed above.



ATTENTION

Refer to Service Parts chart on page 5 for part #'s.

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