



# FILTER MINDER RESTRICTION INDICATORS

*Take the guesswork and costs out of air filter servicing with Fleetguard Filter Minder Indicators!*



**Part No. 3905161S**  
**Direct Mount**  
**Height: 86mm Port Size: 1/8" NPT**

Designed as a direct replacement in the same location as the existing flag type pop-up gauges. Complete with a brass 1/8" NPT fitting with a 20 micron porous bronze safety filter and service decal.



**Part No. 3826036S**  
**Dash Mounted Filter Minder**  
**50mm (2") Dial**  
**Port Size: 1/8" NPT**

Dash Mount chrome bezel kit, retrofit kit is complete with a 3m EPDM hose, push on brass 1/8" NPT fitting with a 20 micron porous bronze safety filter, mounting screws and service decal.



**Part No. 3911025S**  
**Remote Mount Gauge**  
**Height: 76mm Port Size: 1/8" NPT**

Remote mount kit is complete with a 3m EPDM hose, push on brass 1/8" NPT fitting with a 20 micron porous bronze safety filter, brass coupling, mounting tape, mounting screen and service decal.

*Fleetguard's Filter Minder Indicators help you to achieve best preventative maintenance practices by ensuring the replacement of air filters occurs only when necessary.*

*Fleetguard Filter Minder Indicators continually monitors the condition of your air filter and achieves the best preventative maintenance. Filter minder is suitable for all engines.*

## Air Filter Restriction

Air restriction is the resistance of airflow through the air cleaner system. A significant restriction of airflow will cause a reduction in engine horsepower, as there is less oxygen per cubic inch for the engine to burn.

- Operating at high altitudes (low barometric pressure) or in high outside temperatures can also cause a loss of power because the air entering the intake system is less dense in these conditions.
- On the other hand, operating at low altitudes (high barometric pressure) or where the outside temperatures are low can cause an increase in power because the air entering the intake system is more dense. Under these conditions, it is possible for the engine to produce normal power with an air cleaner that is severely clogged.

**This is why it is important to monitor air cleaner restriction in cold weather and why engine power is not a reliable means to determine if an air filter is plugged.**

Diesel engines, especially those with turbochargers, require tremendous quantities of air (1250 litres of air for each litre of fuel burned). Most air filtration systems are designed to hold large amounts of dust or pollutants before restricting the airflow enough to cause a 25" H<sub>2</sub>O vacuum, measured on the clean side with a water manometer or gauge. The clogging is not time predictable. The filter can plug in as little as a few hours (or minutes, with snow) or go as long as 250,000kms, depending on driving conditions.

**Tests show that fuel consumption begins to rise on many engines in the 18" to 20" restriction range. Since the engine can operate in that area without noticeable loss of power for weeks or months, it may consume unnecessary amounts of expensive fuel. Therefore, individual operating records may indicate that it would be advantageous to service the filter at 80 to 85% of OEM recommended maximum restriction.**

## Benefits of Fleetguard Filter Minder Indicators

- ✓ **Continuous Restriction Readings:** Allows you to make accurate checks on filter restriction even after shutdown. It is not necessary to be at governed rpm or under full load to determine when to change your filter.
- ✓ **Increase Uptime:** Air filter maintenance no longer needs to be a hit or miss activity. You can schedule the maintenance interval and prevent costly downtime or over-servicing.
- ✓ **Save on fuel costs:** By operating with a filter that is within acceptable restriction levels. This eliminates the need for the engine to work harder and use larger amounts of fuel to produce power.
- ✓ **Prevent dirt entering engine:** Chances of engine failure due to dirt entering the system are reduced. Knowing when to change air cleaners is important. A totally restricted filter may cause a very high vacuum in the intake manifold, which can pull dirt through the filter into the engine.
- ✓ **Tough, long-life components:** Simple, rugged polycarbonate housing, stainless steel spring and specially designed diaphragm material make the Filter Minder tough enough to last for a long time under even the toughest operating conditions.
- ✓ **Easy, safe and quick installation:** Installations take only a few minutes. Also includes an in-line safety filter that protects the system from dust should the hose disconnect from the gauge. Complete installation instructions are included with each Filter Minder. The gauge mounts easily outside the cab or on the dashboard for reference at a glance. The Filter Minder fits in place of existing service indicators or can be tapped into the intake.

For more information, contact your nearest stockist or phone Fleetguard Nelson Customer Assistance



**Fleetguard Australia**  
31 Garden Street, Kilsyth,  
Victoria 3137 Australia  
Tel: (03) 9721 9100 or 1800 032 037  
Fax: (03) 9721 9147 or 1800 032 036  
Web Site: [www.fleetguard.com](http://www.fleetguard.com)  
E-mail: [fleetassist@fleetguard.com](mailto:fleetassist@fleetguard.com)  
**Fleetguard New Zealand**  
Tel: 0800 448 363  
Fax: 0800 448 367

Your Fleetguard Nelson Stockist: