

# E1186X Breather Kit

For Yanmar L48N Engines

*Kit of parts for sealing the existing crankcase breather and venting via the E03F or E03FM air intake valve.*



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## Application

When installing a diesel engine shutdown valve, such as the Wyndham Page E03F/FM, it is a requirement that any engine crankcase breather arrangement venting directly into the intake ports or into the air intake system downstream of the shutdown valve must be sealed and replaced by an external breather system vented either to atmosphere [if permitted at the site the equipment is to operate] or connected to the intake system upstream of the valve.

The E1186X Breather Kit is designed to seal the internal Yanmar L48N engine crankcase breather and facilitate an external connection into the air filter cover of the Wyndham Page E03F/FM engine shutdown valve.

## Description

The Kit includes all parts required to convert a Yanmar L48N engine for mounting a Wyndham Page E03F/FM Valve and for replacing the breather arrangement as described above. The E03F/FM valve is not included in the kit and should be ordered separately.

## Principle of Operation

The internal crankcase breather arrangement is sealed and re-routed by bonding of a single Elbow fitting into the Rocker Cover. The Rocker Cover must be drilled by the customer prior to fitting the Elbow. The standard Air Filter Cover and Housing are replaced with alternative kit parts to enable mounting of the E03F/FM valve with integrated air filter. The new breather arrangement is then connected to the valve upstream of the air filter via the supplied silicone hose..

# Order Coding

## **E1186X**

Breather Kit for Yanmar L48N

## **E03F035**

E03F valve with 35mm outlet to suit Breather Kit

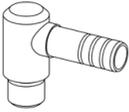
## **E03FM035 RXX**

E03FM valve with 35mm outlet to suit Breather Kit

If requested when placing order the E03F/FM Valve Filter Cover will be modified and fitted with the Elbow E1216X at the factory.

Refer to separate E03F-E03FM Handbook for full details on selection and installation of the E03F/FM Valve.

# Parts List

Part No	Description	Qty	
E1146L055	Intake Adaptor Yanmar L48N	1	
E1223X	Yanmar L48 Elbow Assembly	1	
E1216X	Filter Cover Breather Elbow Assembly	1	
P1114	Fibre Washer M12	1	
P1119	M12 X 1.5 Thin Nut	1	
P1115L050	Silicone Vacuum Hose: 10mm ID X 3mm Wall	0.5M	
P1120	Jubilee Clip - 20mm	2	
P1132	Yanmar Gasket: Cleaner 114299-12210	1	
P1134	Yanmar Gasket: Rocker Cover - 114771-11310	1	

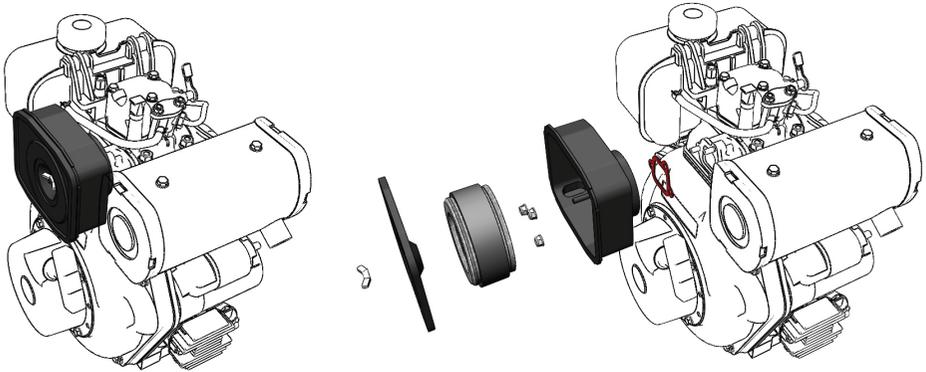
# Suggested Tools & Sundries (Not included in kit)

SUGGESTED TOOLS AND SUNDRIES (NOT INCLUDED IN KIT)	
Description	Qty
Adhesive: Loctite 638 Retaining Compound	1
Activator: Loctite SF764	1
8.5mm Drill	1
10mm AF Combination Spanners	2
10mm AF Socket	1
10mm AF Long Socket	1
Swivel Drive	1
10cm Extension Drive Bar	1
20cm Extension Drive Bar	1

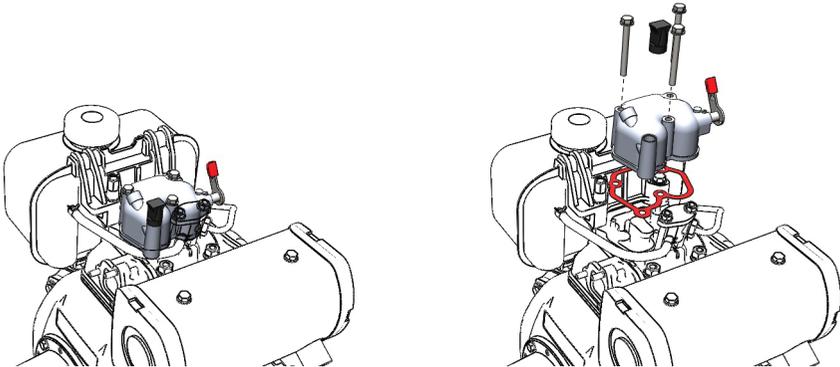
# Breather Kit Installation

## Notes:

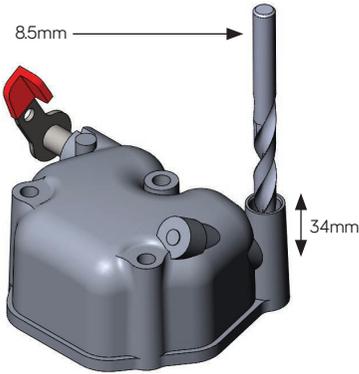
- The appearance of some engine components shown below may vary depending on exact specification of the engine package.
- Retain all parts and fasteners for reuse unless stated.
- All Torque settings as per Yanmar standard torque values table.



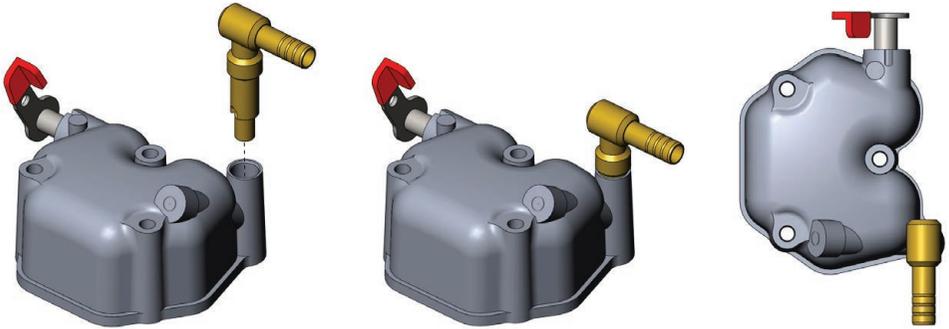
1. Remove M6 wing nut from filter cover, remove cover and filter (discard parts).
2. Remove 3 off M6 nuts; remove filter box and gasket (retain nuts).



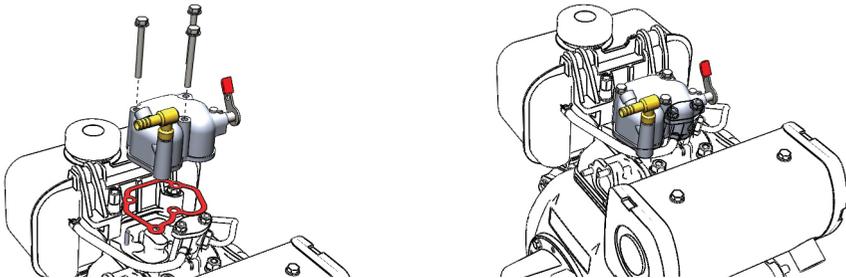
3. Remove 3 off M6 x 55 bolts from top of Rocker Cover & remove Rocker Cover and Gasket.
4. Remove 1 off rubber plug from vent stack in Rocker Cover and discard.



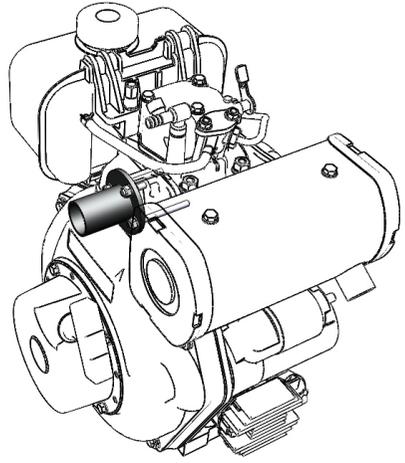
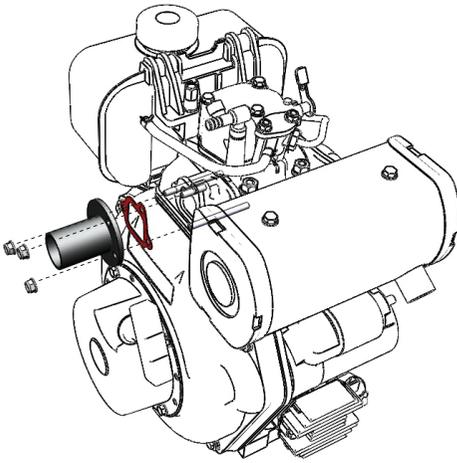
5. Drill down from the top of the air vent stack, 8.5mm dia x 34mm deep. CLEAN OUT SWARF.



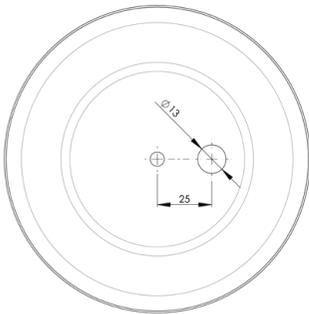
6. Bond Elbow E1223X into the air vent stack. The Elbow also plugs the airway to the cylinder head. (Loctite, 638 retaining Compound, SF764 Activator and SF7063 cleaner recommended). Ensure that the side air vent hole in the Elbow aligns with the cross drilling in the rocker cover. This will leave the hose tail pointing directly forwards, towards the air intake filter.



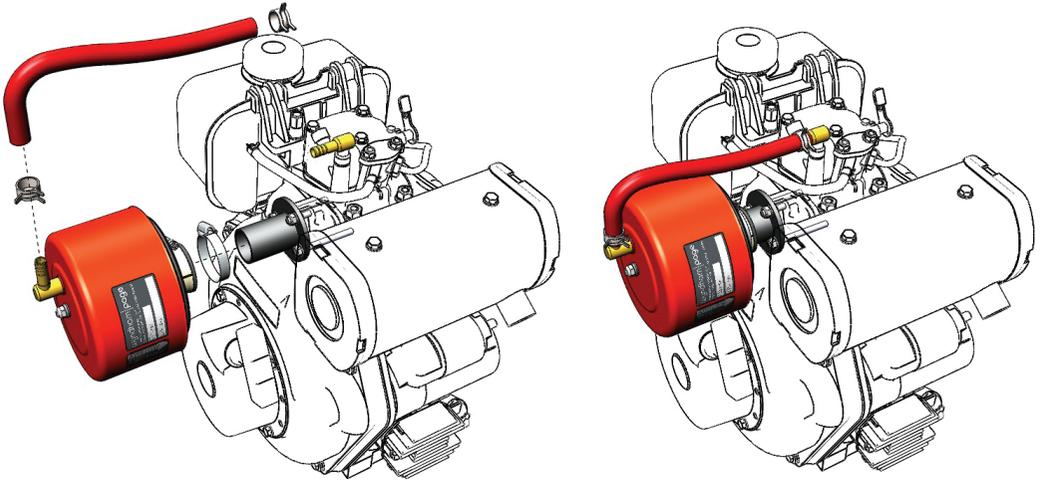
7. Refit the Rocker Cover & new Gasket P1134.



- Slide a new Gasket P1132 & Intake Adaptor E1146L055 over the 3 Intake Manifold studs and secure using the 3 off retained M6 nuts..



- Remove the filter cover from the E03F/FM valve as per the associated handbook and drill hole as shown above.
- Fit Elbow E1216 & Fibre Washer P1114 then secure with Nut P1119. Refit Filter cover to Valve.



11. Slide the E03F/FM valve onto the Stub Pipe and clamp using the supplied Jubilee Clip.
12. Cut the Breather Hose P1115L050 to suitable length, fit between the elbows and secure using the Jubilee Clips P1120.
13. Set up and test the E03F/FM valve as per instructions in the associated handbook.

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