

RCK400 CATCHCAN FITMENT INSTRUCTIONS

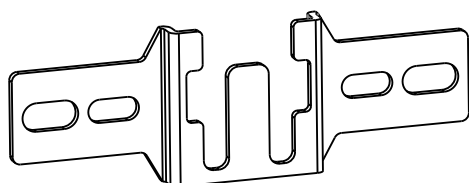
ISUZU N SERIES with 4HK1 engine (2008-2018) - See RYCO catalogue for specific application details.

The Ryco RCK400 kit includes mounting bracket and all components required to complete the installation Ryco RCC351 series catchcan. It is recommended that the installation is conducted by a qualified mechanic following the procedures in this instruction sheet.

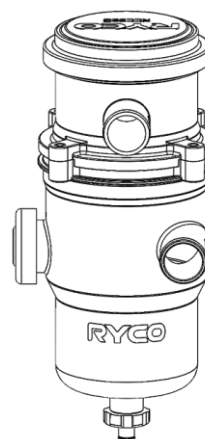
Note, many Isuzu N Series trucks have different layouts, some fitments may be different to that which is shown in this fitment instruction.



**CATCHCAN MOUNTING BRACKET
(INCLUDED IN RCK400)**




CATCHCAN




COMPONENTS INCLUDED IN RCK400 KIT

RCK400 PARTS LIST - PACKAGED IN CARTON

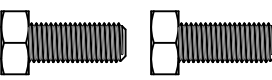
MS4044
CABLE TIE x 20



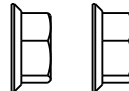
MS8008
FLAT WASHER x 2 (M8)



MS8018
HEX BOLT x 2 (M8 - 35mm)



MS4039
FLANGE NUT x 2 (M8)



MS4100
HOSE JOINER x 2



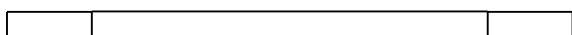
MS4091
PCV HOSE CLAMP x 2



MS4094
PCV HOSE CLAMP x 4



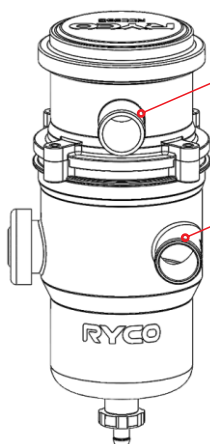
STRAIGHT PCV HOSE x 1 METRE
ABRASION/HEAT SHIELD x 0.6 METRE



MH9811A PCV HOSE x 1



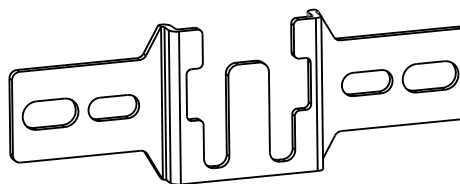
MH9811B PCV HOSE x 1

RCC351 CATCHCAN &
NYLON BRACKET x 1

CATCHCAN
OUTLET

CATCHCAN
INLET



MS8013
CATCHCAN MOUNTING BRACKET x 1

RCK400 CATCHCAN FITMENT INSTRUCTIONS

CATCHCAN INSTALLATION (1/3)

WORK PROCEDURE

1. Locate the brake line L-bracket, on the RH side of the truck.
(Along the front of the chassis rail behind the cab)
2. You will need to loosen the nut and bolt that secures the L-bracket for the brake line.
(Be careful not to pull or bend the brake line)
3. Fit the supplied bracket to the chassis rail, utilising the nut and bolt from the L-bracket through the RH outer slot. Install the supplied nut and bolt through the LH inner slot. Ensure both sets of fasteners are tight.
Refer to Fig.1 for reference.
4. The RCC351 catch-can comes pre-mounted in a rotational mounting bracket. You will need to loosen the clamp screw and remove the catch can from the mounting ring.
(Simply pull the catch can out the ring, it will be tight)
5. Slide the mounting ring (from the top down) onto the chassis bracket you previously fitted. Make sure the ring is secured, the ring should not move only being able to slide up.
6. Reinstall the catch-can to the mounting ring, that is now fitted to the chassis bracket, rotate the RCC351 so that the inlet and outlet ports are facing towards the front of the truck. (Do not tighten the clamp screw yet as you will need to be able to rotate the catch can for the PCV hose fitment)

For this next step, you will need to lift the cab. Refer to the owner's manual if you are unsure how to perform this task.

The PCV pipe runs from the LH to the RH side at the rear of the engine bay. Although the pipe can be modified whilst fitted the vehicle, we recommend that you remove the PCV pipe to prevent any damage to the pipe or other components.

TOOLS & PPE'S REQUIRED

- * WORK GLOVES
- * RACHET SET
- * HOSE CLAMP PLIERS



FIG.1 CATCHCAN BRACKET FITMENT

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CATCHCAN INSTALLATION (2/3)

7. There are five 10mm bolts to remove, two on the outlet side and three on the inlet side of the OEM PCV pipe below. There is a P-clamp located at the back of the engine cylinder head, this secures the centre of the PCV pipe. Remove the bolt and cut the factory fitted zip tie that secures the wiring harness to the PCV pipe.

The next step requires the use of a cutting device. Appropriate safety measures and protection should be used. i.e. safety glasses, gloves appropriate working space.

8. The elbow bend needs to be removed from the PCV pipe, refer to FIG.2 & FIG.3 for reference. This can be cut with a Stanley knife, hack saw or an air saw.

(Do not use hose cutters, scissors or any device that would require a clamping motion, the pipe is plastic and could crack or split).

9. The pipe should now be two separate pieces (inlet side and outlet side) refit both sections to the PCV system on the truck (Clean the surface areas, you may require lubrication if the O-rings on the pipes are dry). When reinstalling the triangle faced flange, rotate the flange so the pipe end is facing down. Remember to reinstall the P-clamp and bolt.
10. There are two PCV hoses supplied in the kit, the hose ends that are flared 1inch diameter are the catch can side, the reduced 16mm side is for the PCV pipes. The PCV hose that has a U shape is for the inlet side of the PCV system (Outlet on the catch can) The vacuum hose that is straight, is for the outlet side of the PCV system (inlet on the catch can)
11. Pre fit the supplied hose clamps to the PCV hoses, remember to locate the clamps further away from the hose ends to allow easier install.
12. Fit the inlet MH9811B PCV hose (straight) to the engine PCV outlet pipe. Guide the other end of the PCV hose between the chassis rail and the fuel lines. Fit the large diameter end of the hose to the bottom port (inlet) of the RCC351 catch can.
 Fit the outlet MH9811A hose (U-shape) to the engine air inlet PCV pipe, guide the other end of the PCV hose between the chassis rail and the fuel lines as with the other hose. Fit the hose to the top port (outlet) of the catch can.
 The catch-can can be rotated to accommodate the positioning of the hoses. Refer to FIG.4.



FIG.2 OEM PCV MODIFICATION



FIG.3 OEM PCV MODIFICATION



FIG.4 PCV HOSE FITMENT

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CATCHCAN INSTALLATION (3/3)

13. Once all hoses are in place, slide the hose clamps over the mating surfaces of the hoses. Remember to tighten the mounting clamp screw, to secure the catch can in position.
14. Three zip ties are supplied, fit the zip ties to the vacuum hoses, about 6-7 inches apart. Refer to FIG.5
15. Run the engine, check PCV system for any vacuum leaks.

NOTE:

If your catch can placement exceeds the length of the supplied moulded PCV hose, you can lengthen either hose by using the supplied straight hose and hose joiners.

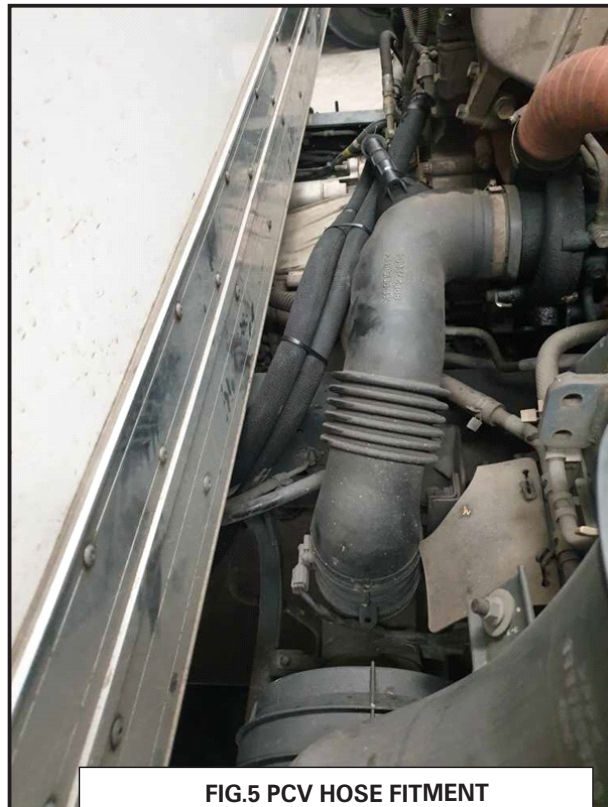


FIG.5 PCV HOSE FITMENT