



## **Fitting Instructions for MFK41270 Nissan Patrol ZD30 Oil Catch Can Bracket Kit**

### **Important Information**

This instruction booklet can be used standalone for the above stated conversion but we would also recommend having a workshop manual for your vehicle to cover any factory Nissan torque / installation settings to complete the oil catch can conversion to your Nissan.

The instruction booklet describes the required modifications (if any) and installation process in order for our kit to fit and work properly.

Marks 4WD Adaptors cannot and will not take responsibility for knowing everything that may impact on your conversion. Before beginning any work, thoroughly work through the sequence of changes, work and potential impact of your conversion. You must ensure you completely understand all the factors that may impact on achieving your desired results.



# Kit Contents

This kit contains the following parts. Before beginning any work ensure that you have all parts.

<b>Part No.</b>	<b>Quantity</b>	<b>Description</b>
• MFC41270	1	Nissan Patrol Oil Catch Can Bracket L/H
• MFC41271	1	Nissan Patrol Oil Catch Can Bracket R/H
• MFC41264	1	KUN26R Outlet / Patrol Inlet Oil Catch Can Hose
• MFG41272	1	Nissan Patrol Oil Catch Can Drain Cock Assembly
• 8LOLA	1	1/2" Push-Lok Hose
• NT-2090	3	Nut - M6 - S/S
• BT-2010	3	Bolt - M6 x 1 x 12mm - Captured Spring Washer
• BT-2020	2	Bolt - M6 x 1 x 20mm - Captured Spring Washer
• FW-2045	2	Flat Washer - M6 x 12.5 - S/S
• NT-2005	2	Nut - M6 x 1 - Captured Anti-Vibration Washer
• BT-2035	2	Set Screw - M8 x 1.25 x 30mm - S/S
• FW-2050	2	Flat Washer - M8 x 19 x 2L - H/T - Z/P
• FBS19-12-100	2	Constant Tension Hose Clamp - 19mm
• FBS26-12-100	3	Constant Tension Hose Clamp - 26mm

### **Step 1 Remove Vacuum Tank Bracket**

You will need to first remove the bracket from the vehicle that holds the vacuum tank. These brackets in some models also hold a boost tank alongside the vacuum tank.

**See image 1**



**Image 1** Vacuum Tank Bracket

### **Step 2 Remove Vacuum Line Bolts**

Remove the two bolts that attach the solid vacuum line to bracket

**See image 2**



**Image 2** Remove Bolts

### **Step 3 Right Hand Catch Can Bracket**

Place bracket under the solid line mount. Use supplied M6 Washers and anti-vibration nuts on the two M6 threads that are already on bracket, and reuse bolt for the solid vacuum line.

**See image 3a**



**Image 3a** Right Hand Catch Can Bracket



**Image 3b** Mark holes to be drilled

In some models we have found that there are 2 M6 threads in bracket, and some brackets are completely blank. If there are no M6 threads in bracket, then 2 holes will have to be drilled.

First fit the catch can bracket using just the solid line bolt. Square catch can bracket to vacuum tank bracket and mark the holes.

**See image 3b**

Remove bracket and drill holes to suit M6 bolts. Touch up holes with a little black paint to prevent rust.

**See image 3c**



**Image 3c** Drilled Holes

Place bracket under the solid line mount. Use supplied M6 Bolts and M6 Nuts that are supplied in kit.

**See image 3d, 3e**



**Image 3d** Supplied Bolts



**Image 3e** Supplied Nuts

#### **Step 4 Left Hand Catch Can Bracket**

Place the bottom of the bracket under the solid line mount, Reuse factory bolt. Place the top of the bracket on the opposite side of the vacuum bracket and fasten using the supplied M6 bolt and nut.

**See image 4a, 4b**



**Image 4a** Reuse Factory Bolt



**Image 4b** Supplied Bolt With Nut



**Image 5** Catch Can

#### **Step 5 Install Catch Can**

Place catch can into position and use supplied M8 bolts and flat washers to attach catch can to brackets. Use thread locker on M8 bolts.

**See image 5**

**NOTE: THIS IS ALSO THE IDEAL TIME TO FIT THE DRAIN HOSE. WHEN PUTTING THE BRACKET ASSEMBLY IN CAR, FEED THE DRAIN HOSE ALONG CHASSIS RAIL TO THE FRONT AT THE SAME TIME.**



## **Step 6 Bolt Bracket Back Into Vehicle**

Install the catch can/vacuum brackets back into vehicle reusing all factory bolts

**See image 6**



**Image 6** Catch Can/Vacuum Bracket Assembly

## **Step 7 Remove Crank Case Vent Hose**

Remove the crank case vent hose but do not discard.

**See image 7a, 7b**



**Image 7a** Crank Case Hose On Air Intake



**Image 7b** Hose To Crank Case

## **Step 8 Shorten Factory Crank Case Vent Hose**

Cut 65mm off the crank case end of hose. This is a reducing I.D hose that needs to be reused for this conversion.

**See image 8**



**Image 8** Remove 65mm Off Factory Crank Case Hose

### **Step 9 Fit Hose From Air Intake To 'Out' Port on Catch Can**

Use supplied hose and self-tension squeeze clamps supplied in kit to connect the air intake to the '**OUT**' port on the catch can. On catch can end apply a small amount of rubber grease or engine oil on internal diameter. The catch can outlet has a slightly larger outside diameter. The lubricant will help the hose being pushed over this larger O.D.

**See image 9a, 9b**



**Image 9a** Air Intake Inlet



**Image 9b** Catch Can Outlet

### **Step 10 Fit Hose From Crank Case To 'In' Port on Catch Can**

Use the original shortened hose with original squeeze clamp and self-tension squeeze clamp supplied in kit to connect the crank case vent to the '**IN**' port on the catch can. On catch can end apply a small amount of rubber grease or engine oil on internal diameter. The catch can outlet has a slightly larger outside diameter. The lubricant will help the hose being pushed over this larger O.D.

**See image 10a, 10b**



**Image 10a** Air Intake Inlet



**Image 10b** Catch Can Outlet

## **Step 11 Fit Drain Cock Assembly**

Using the 2 M6 x 20 bolts supplied in kit, install the drain cock assembly to the inner passenger chassis rail. There will be 2 M6 thread in chassis from factory that can be used. Sometimes these threads can have dirt in them, so cleaning threads with a thread tap will ensure easy fitment. Connect drain hose using squeeze clamp supplied in kit.

***See image 11***

***ENSURE ALL LINES HAVE BEEN ROUTED CORRECTLY AND CABLE TIED IN A MANNER THAT WILL PREVENT HOSES FROM RUBBING AND CAUSING DAMAGE TO HOSES.***

Note: Drain cock handle in down position is actually closed.



***Image 11*** Drain Cock Assembly



## Terms and Conditions

Thank you for purchasing this product manufactured by Marks 4WD Adaptors. Components supplied in this kit are designed and machined for a specific conversion only as outlined in this guide. Modifications to or substitution for any of the components without the written consent of Marks 4WD Adaptors will void any possible warranty or return privileges.

The following instructions are intended as a guide and only for Marks 4WD Adaptors kits. If you do not fully understand the steps, modifications or changes required to complete the conversion, contact our sales department for more information. We recommend that you purchase a service manual pertaining to your vehicle for specific torque values, wiring diagrams and other related information.

## Contact Information

**Web:** <http://www.marks4wd.com/>

**Email:** [sales@marks4wd.com](mailto:sales@marks4wd.com)

**Phone:** + 61 3 9552 6555

**Address:** 385-393 Lower Dandenong Rd  
Dingley Victoria 3172  
Australia