



## **PAC PERFORMANCE HIGH CAPACITY FUEL TANK PACKAGE MAZDA RX3 808 WAGON**

Congratulations on purchasing a Pac Performance High Capacity Fuel Tank Package. We have designed these tank/pump setups to be as simple & straight forward as possible for DIY installation however, if you are not confident in your capabilities to carry out the install we highly recommend having the job carried out by a professional with the correct tools and experience.

### **COMPONENT LIST**

Fuel Tank Shell  
Pump Cradle (Pre Assembled & Wired With Pumps)  
Mounting Hardware  
Filler Neck Kit

### **INSTALLATION NOTES**

Supplied pre-assembled and ready to go, the RX3/808 Wagon Fuel Tank setup is a bolt-in replacement for the OEM tank, utilising the 8 factory M8 mounting points. Being an under boot setup, the fuel lines will need to be installed first, before the tank is raised up into place. If you have purchased the fuel tank combo by itself and are sorting your own fuel lines, you will need to dummy the tank up in place to begin with to measure your lines. While any fuel safe hose can be used to plumb the system, we highly recommend using quality teflon braided line, as seen in this installation (see pg3 for sizing recommendations)

We recommend thoroughly cleaning and prepping the area before mounting up your new tank, ensuring no dirt or debris is present that may lead to rust. Painting the area with an underbody sealer or similar is also a good idea for some added protection and ensures the install looks neat and professional.

Due to the factory filler neck no longer being suitable, the kit is supplied with a custom 2-piece fabricated fuel filler neck kit which bolts in place of the original filler and features a -10 return outlet, breather hose fitting & line as well as a billet screw-on cap - which means no more leaks!

Once bolted into place with the supplied hardware, the tank is ready to be plumbed & wired up. All fuel tanks come with the supplied fuel pumps pre mounted on the cradle, wired & plumbed using ethanol compatible components, ready to run your fuel lines to the -6 bulk head fittings. While any fuel safe hose can be used to plumb the system, we highly recommend using quality teflon braided line. A Fuel Line Plumbing Kit is available to go with your fuel tank package as an optional extra (see pg3)

Each tank is supplied with a new fuel level sender, pre-installed & calibrated as standard to suit factory analogue gauges with a 90 ohms signal at empty and 0 ohms at full. The unit is also compatible with digital dash displays however, it will require recalibrating to suit.

See page 2 for further installation notes and images.

## INSTALLATION NOTES

**PIC 1.0**



Due to the tight spacing for the installation of the new filler neck, we have made it a 2-piece setup to make for easier fitment.

Before bolting the tank itself in place, you will need to sit the lower filler pipe in place as you will not be able to fit it in once the tank is mounted.

**PIC 2.0**



Once the lower filler pipe positioned in the factory recess & you have your fuel lines sorted, the tank can then be bolted into place using the supplied M8 hardware and the 8 factory mounting points at the front and rear.

As you can see in the image provided, the rear flange (facing the front of the car) slips under the 2 factory retainer tabs which will assist you when bolting it into place.

**PIC 3.0**



The new filler neck can now be properly installed which begins with connecting the lower pipe to the tank with the supplied silicon hose. The upper pipe is next which simply attaches to the lower pipe with the second silicon hose as well as the 4 stainless allen head bolts supplied with the kit.

The breather line is then run from the filler neck and looped up the quarter panel before exiting the cabin via the factory removable floor panel.

**PIC 3.0**



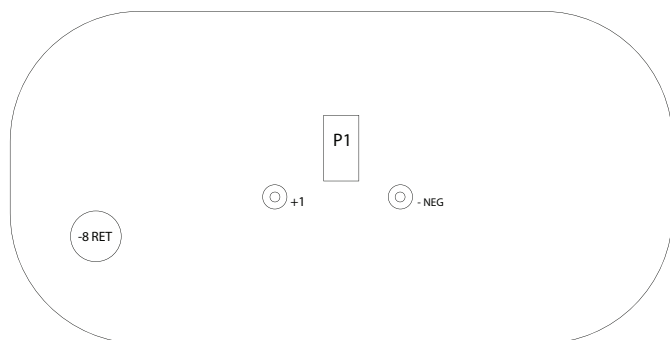
With the fuel tank and the new filler neck setup in place it's now a good time to check over all the mounting bolts and hose clamps one more time to ensure everything is done up correctly before moving onto the wiring.

For details on this final and very important step of the installation, refer to pg 3 for details on wiring recommendations. As always, we recommend that all electrical work be carried out by a qualified auto electrician.

## PUMP CRADLE LAYOUT

An optional wiring kit is available to aid in the installation however, we recommend electrical work be carried out by a qualified auto electrician to ensure the job is carried out correctly & safely. Pac Performance accepts no responsibility for component damage or poor performance as the result of incorrect installation

### SINGLE PUMP



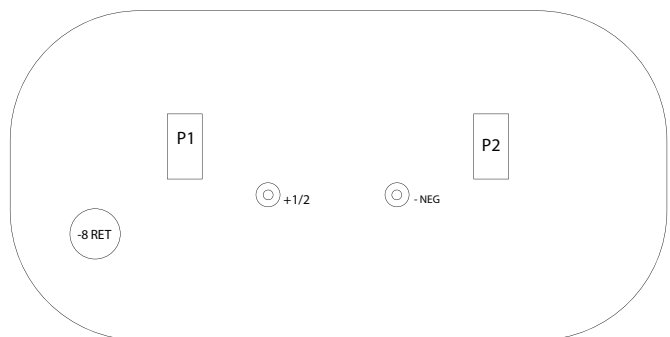
#### Single Walbro 342 Pump (Standard)

- 40A Relay / 30A Fuse
- 5mm Cable Recommended

#### Single Walbro 460 Pump (Optional Upgrade)

- 40A Relay / 30A Fuse
- 6mm Cable Recommended

### TWIN PUMP



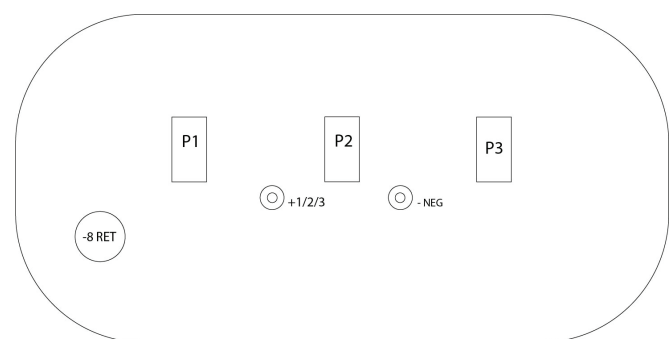
#### Twin Walbro 342 Pumps (Standard)

- 70A Relay / 50A Fuse
- 6mm Cable Recommended

#### Twin Walbro 460 Pumps (Optional Upgrade)

- 70A Relay / 50A Fuse
- 6mm Cable Recommended

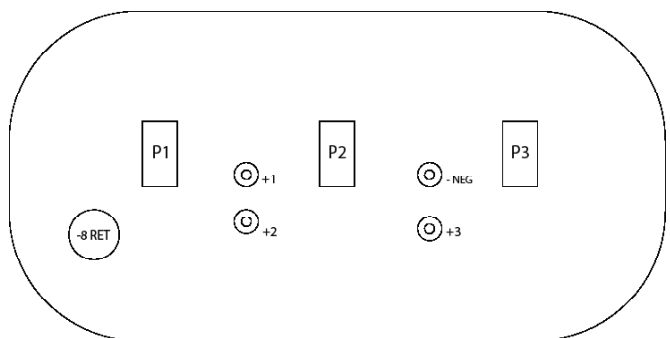
### TRIPLE PUMP 342



#### Triple Walbro 342 Pumps (Standard)

- 40A Relay (Pump 1) 70A Relay (Pumps 2/3)
- 60A Fuse
- 8mm 8BNS Cable Recommended

### TRIPLE PUMP 460/525



#### Triple Walbro 460 Pumps Staged (Optional Upgrade)

- 40A Relay (Pump 1) 70A Relay (Pumps 2/3)
- 60A Fuse
- 8mm 8BNS Cable Recommended

#### Triple Walbro 525 Pumps Staged (Optional Upgrade)

- 40A Relay (Pump 1) 70A Relay (Pumps 2/3)
- 60A Fuse
- 8mm 8BNS Cable Recommended

Upgraded pumps are set up in staged operation as standard with pump #1 operating constant & pumps #2 & #3 set to turn on based on tuner set parameters - This is our recommended setup.

## OPTIONAL EXTRAS

An option wiring kit is available to aid in the installation however, we recommend electrical work be carried out by a qualified auto electrician to ensure the job is carried out correctly & safely. Pac Performance accepts no responsibility for component damage or poor performance as the result of incorrect installation

### E85 PRE-MIX

If you're switching over to E85 with your new fuel system you're going to need some E85 pre-mix before you can get out and cruise. Our special blend pre-mix is available in a range of sizes including a 1L Ez-Mix, 2L Top-Up & 20L Bulk Drum.



### PUMP WIRING KIT

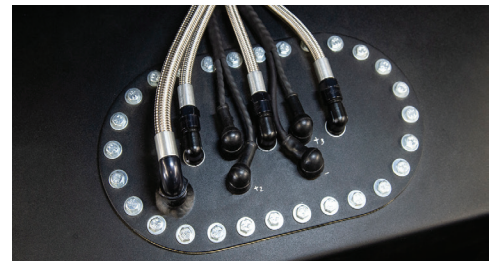


To assist with the installation of your new fuel tank setup, specifically wiring up the fuel pump, this kit will provide all the major components required to get you started, matched to your chosen pump combination.

Note: We recommend wiring be carried out by a qualified auto electrician.  
Single pump kit pictured

### FUEL LINE PLUMBING KIT

Taking the hassle out of plumbing up your new multi-pump fuel system, we can supply you with a pre-assembled fuel line set to suit twin or triple pump tanks, with quality Speedflow 550 Series crimp fittings & teflon braided hose, plumbed up to the 2 or 3-way distribution block also supplied with the kit.



While this quick guide will provide you with the information needed to carry out the installation of your new Pac Performance Fuel Tank, if you should have any questions or concerns or require any technical assistance we are here to help - Simply give us a call at the workshop on +612 9792 7076 or email [info@pacperformance.com.au](mailto:info@pacperformance.com.au)

***THANK YOU FOR CHOOSING PAC PERFORMANCE***



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