sector 111

gPAN installation

Rev. C

Page 1 of 5

READ FITTING INSTRUCTIONS IN FULL BEFORE INSTALLATION

This article is sold without warranty expressed or implied. No warranty or representation is made as to this product's ability to protect the user from injury or death. The user assumes that risk. The effectiveness, warranty and longevity of this equipment are directly related to the manner in which it is INSTALLED, USED, and/or MAINTAINED. THE USER ASSUMES THE RISK.

By purchasing this product and opening the packaging, purchasers expressly acknowledge, understand and agree that they take, select and purchase these SECTOR 111 products from SECTOR 111, its affiliates, distributors, and agents (collectively, SECTOR 111) as is and with all faults.

The entire risk as to the guality and performance of these SECTOR 111 parts is with the purchasers. Working on your car can be a dangerous activity. If you are unsure of what you are doing, please leave mechanical or Safety critical work to a skilled mechanic.

We take no responsibility for the incorrect use and/or installation of SECTOR 111 products.

 Confirm the following items are in your kit 1 gPAN Windage tray 4 - 10-24 BHCS 4 - ¼" Large OD Washers 	Tools needed for install: o 10mm socket o Extension o 14mm socket o Ratchet	
 Drain Plug 1/8 pipe plug 13 - M6x20mm Flange bolts 3 - M6x30mm studs 3 - M6 Flange nuts 	 3mm Allen 5/32" Allen 3/16" Allen 3/8" Allen 3/8" Allen Vise grips Gasket scraper Pry bar 8mm socket 13mm socket Recommended Liquid Gasket 1. Permatex ultra grey #82194 2. Threebond #1194 	

Rev. B Page 2 of 5

Instructions	Tools/ Parts	Picture/ Illustration
 Using one of the M6x20mm bolts make sure the bolt fits thru <u>every single hole</u>. Please follow this step before removing stock oil pan. If you find one that does not fit thru, contact us. 		
 Remove Under tray Drain oil from oil pan, remove dipstick For best leak free seal on new pan, allow engine to sit for <u>two days</u> after draining oil. 	 8mm socket 13mm socket Ratchet 14mm socket 	

Rev. B Page 3 of 5

_	Instructions	Tools/ Parts	Picture/ Illustration
5.	Remove flywheel inspection cover o See picture	 10mm Socket Ratchet Extension Pry bar 	
6.	 Unbolt Stock oil pan Once all bolts and nuts are removed gently use a pry bar to help loosen pan from block, be sure not to touch the mating surface with the pry bar Run Gasket scraper between block and pan to help in removal 	 Gasket scraper 	
	Remove Stock studs from block using vise grips Using gasket scraper remove old gasket seal from block	 Gasket scraper Vise grips Permatex gasket remover (optional) Wire Brush 	
9.	 Note: use a piece of cardboard or something similar as a shield to keep remover from getting into crankcase 		

Rev. B

Page 4 of 5

Instructions	Tools/ Parts	Picture/ Illustration
 10. Screw in new studs until they just bottom out, locations shown in picture See red circles These will help align pan once sealant is applied 	 M6 Studs 3mm Allen 	
 Test fit gPAN to the engine block to ensure flat smooth mating service. Remove inner tray from oil pan and inspect 	 5/32" Allen for inner tray 3/16" Allen for accessory plug 	
 for debris. Be sure to clean as required. 13. Thread lock oil pan tray bolts and install tray. 14. When installing the 1/8" accessory plug in the side of pan. Wrap threads with Teflon tape and install plug - hand tight. 15. Make sure oil pan drain bolt is tight. 	 3/8" Allen for drain plug Teflon tape Red thread lock 	

Rev. B Page 5 of 5

	Instructions	Tools/ Parts	Picture/ Illustration
17. 18.	Run a continuous bead of liquid gasket along sealing surface. Make sure to run beads around every bolt hole Carefully place new pan onto block. Make sure orientation is correct and to clear pickup tube. Hold firmly against block and hand tighten 3 nuts onto studs. Install Oil pan bolts o Torque bolts and nuts to 9 ft-lbs Allow 24hrs for gasket to set and seal before adding oil	 Liquid Gasket 10mm socket M6 Flange nuts M6x20 Flange bolts 	
20.	Add new oil to engine o 6 liters of 5W-40		
21.	Visually inspect pan for leaks around seal and fittings before starting engine		Contraction of the second seco
22.	After verifying there are no leaks start engine and run for 1 minute. Recheck oil level and recheck for leaks.		
23.	Start engine and let car reach operating temp. Shut off engine and let engine sit overnight for final leak check. Once finished install under tray		i-c