Repair Manuals

Turbocharger: removal/installation			
Warnings and recommendations			
Allow the engine to cool down			
Plug open connections with clean plugs			
•	Remove each plug immediately before installing the component		
Clean off the sealing surfaces			
Occur on the scaling surfaces			
Rene	Renew the self-locking nuts		
Rene	Renew the gaskets		
Renew the seals			
Renew the bolts			
Renew any damaged or deformed clips			
Removal			
Disconnect the battery earth cable			
,			
Remove the turbocharger heat shield			
Disconnect the front exhaust pipe from the turbocharger			
Front exhaust pipe: Disconnect the bracket.			
Remove the air inlet hose from the turbocharger			
Disconnect the turbocharger air outlet hose			
Disconnect the vacuum hose from the turbocharger actuator			
Remove the turbocharger oil supply line			
Disconnect the turbocharger oil return line			
Remove the turbocharger support			
Disconnect the turbocharger from the exhaust manifold			
Remove the turbocharger			
Installation			
Before refitting the turbocharger, carry out the following procedure:			
Check the air hoses for damage and contamination			
Check the intercooler for damage and contamination			
Check the engine for any additional damaged components			
Check the exhaust manifold for damage; renew if necessary			
Installation is in the reverse order of removal			
Renew the engine oil and filter			
0	Engine sump, including filter	8.5 (I)	
0	Engine oil drain plug (Renew the seal)	30 (Nm)	
Reco	nnect the battery earth cable		
Delete all the fault codes			
20.00	o all the laak eedee		
Run the engine until warm			
Turn the engine off			
Check the turbocharger for leaks			
Torque settings			
-	charger oil supply line		
0	Turbocharger oil supply line (To turbocharger)	16 - 20 (Nm)	
0	Turbocharger oil supply line (To cylinder head)	9 (Nm)	
Turbo	charger oil return line		
0	Turbocharger oil return line (To turbocharger)	9 (Nm)	
Turbocharger			
	-	20 (Nm)	
0	Turbocharger	30 (Nm)	



Repair Manuals

Support bracket to turbocharger: (30 Nm) Support bracket to crankcase: (20 Nm)

HaynesPro®