

 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 20-01-024H-1
	DATE NOVEMBER 2020	MODEL(S) SEE APPLICABLE VEHICLES BELOW

SUBJECT: THETA GDI ENGINE DTC P1326 - ENGINE INSPECTION / REPLACEMENT (SERVICE CAMPAIGN T3G) OP CODE/PART NUMBER REFERENCE

This TSB supersedes 20-01-024H to update the Warranty Information Table with additional op codes, descriptions, and op times due to the change in the service procedure.

★ IMPORTANT

***** Dealer Stock & Retail Vehicles *****

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

Please note that this TSB references the op codes to use for claim submission and the parts required based on the vehicle's inspection results from TSB # 20-01-004H-2.

Description: Applicable vehicles with 2.0L Turbo and 2.4L GDI engines may experience the Check Engine warning lamp illuminated with DTC P1326. Follow the procedure to inspect the vehicle and replace the engine or update the engine ECU software based on the inspection results. Consult the Hyundai Warranty Policy & Procedures and the below chart to determine New or Reman engine usage.

*****Please note that a Reman engine may not be available for certain vehicle models and model years listed in this TSB.*****

Applicable Vehicles:

- Certain 2011-2014 MY Sonata (YF) vehicles with 2.0L Turbo and 2.4L engines
- Certain 2015-2019 MY Sonata (LF) vehicles with 2.0L Turbo and 2.4L engines
- Certain 2013-2018 MY Santa Fe Sport (AN) vehicles with 2.0L Turbo and 2.4L engines
- Certain 2019 MY Santa Fe (TM) vehicles with 2.0L Turbo and 2.4L engines
- Certain 2014-2015 MY Tucson (LM) vehicles with 2.4L engines
- Certain 2018-2019 MY Tucson (TL) vehicles with 2.4L engines
- Certain 2019 MY Veloster N (JSN) vehicles with 2.0L Turbo engines

For 17MY Sonata 2.4L with production date on 5/13/2016 to 5/19/2016:

- If production date is before 5/16/2016, order 21101-2GK33QQH.
- If production date is after 5/19/2016, order 21101-2GK34QQH.
- If the last 6 digits of the VIN **are below**, order 21101-2GK33QQH.
- If the last 6 digits of the VIN are **not below**, order 21101-2GK34QQH.

443013	443094	443107	443124	443137	443148	443159	443173	443202
443026	443095	443109	443125	443138	443149	443160	443175	443206
443051	443097	443110	443127	443139	443150	443161	443178	443208

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

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443069	443098	443113	443128	443140	443151	443162	443181	443210
443083	443099	443114	443131	443141	443152	443164	443185	
443086	443100	443116	443132	443142	443153	443165	443187	
443087	443102	443117	443133	443143	443154	443166	443195	
443089	443104	443119	443134	443145	443156	443167	443196	
443091	443105	443120	443135	443146	443157	443170	443197	
443093	443106	443123	443136	443147	443158	443171	443200	

Warranty Information:**Notes:**

- 1) For **11-18MY** vehicles: Submit Claim on **Campaign Claim Entry Screen**.
- 2) For **19MY** vehicles: Submit Claim on **Warranty Claim Entry Screen**.
Use Q75 for Nature Code, ZZ1 for Cause Code.
- 3) If a part is found in need of replacement while performing this campaign and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part(s) are out of warranty, request a Prior Authorization # for goodwill consideration prior to completing the Campaign.
- 4) PA Approval **required** for OP Codes **with engine** replacement.
- 5) PA Approval **NOT required** for OP Codes **without engine** replacement.
- 6) If additional labor is required while performing Recall Campaign T3G, please submit a separate claim using the same Repair Order number. Submit for the additional labor time with 21101NTT using the engine causal part number from the engine chart below with the associated op code. Ensure punch times are accurate and that they match the labor performed along with the service manager's signature approving the TT time.
- 7) **Use Engine Part Number as Causal Part Number for additional claims noted in 3)**

*****Please see TABLE OF CONTENTS on PAGE 4 to see refer to applicable op codes according to model, model years, Smart Cruise Control (SCC) (if applicable), and Front Wheel Drive/All Wheel Drive (FWD/AWD) (if applicable) of affected vehicles.*****

*****Please note that a Reman engine may not be available for certain vehicle models and model years listed in this TSB.*****

Key Notes for Op Code Tables:

- NOTE 1:** *RM in 3rd column of tables refers to Reman Engine.
- NOTE 2:** For 2017MY Sonata engine replacement, please refer to page 1 for specific instructions.
- NOTE 3:** For op codes with where **ECM Update is in red font**, submit a separate campaign claim for the ECM update using Service Campaign 953 op codes.
- NOTE 4:** For op codes with OIL CHECK (YES), please note that there is a prior step in TSB # 20-01-004H-2 to identify if there is any lower end damage to the vehicle. If lower end damage applies, please use the applicable workflow path with OIL CHECK (YES) and proceed to engine replacement as indicated in page 5 of TSB # 20-01-004H-2.

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1) 2011-13 Sonata 2.0T Op Code Table

Model	MY	NEW/ RM*	SCC/Non -SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	2011-13	NEW	N/A	2.0T	Poor Engine Start	211012GK60QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AG	6.6		
		RM	N/A	2.0T		211012GK60QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AI	6.6		
		NEW	N/A	2.0T		211012GK60QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AH	6.8		
		RM	N/A	2.0T		211012GK60QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AJ	6.8		
		NEW	N/A	2.0T		211012GK60QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326AA	7.5		
		RM	N/A	2.0T		211012GK60QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326AC	7.5		
		NEW	N/A	2.0T		211012GK60QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326AB	7.7		
		RM	N/A	2.0T		211012GK60QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326AD	7.7		
		-	N/A	2.0T		PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326AY	1.3
		-	N/A	2.0T			N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326AZ	1
		NEW	N/A	2.0T	211012GK60QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AK	6.6		
		RM	N/A	2.0T	211012GK60QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AM	6.6		
		NEW	N/A	2.0T	211012GK60QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AL	6.8		
		RM	N/A	2.0T	211012GK60QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AN	6.8		
		NEW	N/A	2.0T	211012GK60QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AO	6.6		
		RM	N/A	2.0T	211012GK60QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AQ	6.6		
		NEW	N/A	2.0T	211012GK60QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AP	6.8		
		RM	N/A	2.0T	211012GK60QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AR	6.8		
		NEW	N/A	2.0T	Engine Noise	211012GK60QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326AU	6.6		
		RM	N/A	2.0T		211012GK60QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326AW	6.6		
		NEW	N/A	2.0T		211012GK60QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AV	6.8		
		RM	N/A	2.0T		211012GK60QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W	8P1326AX	6.8		

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											Available (YES) + ECM Update		
		N/A	N/A	2.0T	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326AE	0.5
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326AF	0.4
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326AS	0.8
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326AT	0.7
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A			

2) 2011-2013 Sonata 2.4L Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SONATA	2011-13	NEW	N/A	2.4L	Poor Engine Start	211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BG	6.1	
		RM	N/A	2.4L		211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BI	6.1	
		NEW	N/A	2.4L		211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BH	6.3	
		RM	N/A	2.4L		211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BJ	6.3	
		NEW	N/A	2.4L		211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326BA	7	
		RM	N/A	2.4L		211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326BC	7	
		NEW	N/A	2.4L		211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326BB	7.2	
		RM	N/A	2.4L		211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326BD	7.2	
		-	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326BY	1.3
		-	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326BZ	1
		NEW	N/A	2.4L		PMIL-ON P1326	211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BK	6.1
		RM	N/A	2.4L		211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BM	6.1	
		NEW	N/A	2.4L		211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BL	6.3	
		RM	N/A	2.4L		211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BN	6.3	
		NEW	N/A	2.4L	211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BO	6.1		
		RM	N/A	2.4L	211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BQ	6.1		
		NEW	N/A	2.4L	211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BP	6.3		
		RM	N/A	2.4L	211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BR	6.3		
		NEW	N/A	2.4L	211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326BU	6.1		
		RM	N/A	2.4L	211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326BW	6.1		
		NEW	N/A	2.4L	211012GK50QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BV	6.3		
		RM	N/A	2.4L	211012GK50QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BX	6.3		
		N/A	N/A	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326BE	0.5	
		N/A	N/A	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326BF	0.4	

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		N/A	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326BS	0.8
		N/A	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326BT	0.7

3) 2014 Sonata 2.0T Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SONATA	14	NEW	N/A	2.0T	Poor Engine Start	211012GK80QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AG	6.6	
		RM	N/A	2.0T		211012GK80QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AI	6.6	
		NEW	N/A	2.0T		211012GK80QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AH	6.8	
		RM	N/A	2.0T		211012GK80QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AJ	6.8	
		NEW	N/A	2.0T		211012GK80QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326AA	7.5	
		RM	N/A	2.0T		211012GK80QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326AC	7.5	
		NEW	N/A	2.0T		211012GK80QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326AB	7.7	
		RM	N/A	2.0T		211012GK80QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326AD	7.7	
		-	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326AY	1.3
		-	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326AZ	1
		NEW	N/A	2.0T	2.0T	PMIL-ON P1326	211012GK80QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AK	6.6
		RM	N/A	2.0T	211012GK80QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AM	6.6	
		NEW	N/A	2.0T	211012GK80QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AL	6.8	
		RM	N/A	2.0T	211012GK80QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AN	6.8	
		NEW	N/A	2.0T	211012GK80QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AO	6.6	
		RM	N/A	2.0T	211012GK80QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326AQ	6.6	
		NEW	N/A	2.0T	211012GK80QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AP	6.8	
		RM	N/A	2.0T	211012GK80QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AR	6.8	
		NEW	N/A	2.0T	211012GK80QQH		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326AU	6.6	
		RM	N/A	2.0T	211012GK80QQHRM		211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326AW	6.6	
		NEW	N/A	2.0T	211012GK80QQH	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326AV	6.8		

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											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update			
	RM	N/A	2.0T	Not Specified	211012GK80QQHRM	211112GK60QQH	211112GK70QQH	254702G650QQH	N/A			8P1326AX	6.8	
	N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures		8P1326AE	0.5
	N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)		8P1326AF	0.4
	N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline		8P1326AS	0.8
	N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)		8P1326AT	0.7
	N/A	N/A	2.0T			N/A	N/A	N/A	N/A	N/A				

4) 2014 Sonata 2.4L Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SONATA	14	NEW	N/A	2.4L	Poor Engine Start	211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BG	6.1	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BI	6.1	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BH	6.3	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BJ	6.3	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326BA	7	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326BC	7	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326BB	7.2	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326BD	7.2	
		-	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326BY	1.3
		-	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326BZ	1
		NEW	N/A	2.4L	PMIL-ON P1326	211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BK	6.1	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BM	6.1	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BL	6.3	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BN	6.3	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BO	6.1	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326BQ	6.1	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BP	6.3	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BR	6.3	
		NEW	N/A	2.4L		211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326BU	6.1	
		RM	N/A	2.4L		211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326BW	6.1	
		NEW	N/A	2.4L	211012GK70QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BV	6.3		
		RM	N/A	2.4L	211012GK70QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326BX	6.3		
		N/A	N/A	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326BE	0.5
		N/A	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326BF	0.4

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		N/A	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326BS	0.8
		N/A	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326BT	0.7

5) 2015-2018 Sonata 2.0T (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SONATA	2015-18	NEW	Non-SCC	2.0T	Poor Engine Start	211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326DG	7.1	
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326DH	7.3	
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326DA	8	
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326DB	8.2	
		-	Non-SCC	2.0T	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326DY	1.9
		-	Non-SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326DZ	1
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326DK	7.1
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326DL	7.3
		NEW	Non-SCC	2.0T	Engine Noise	211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326DO	7.1
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326DP	7.3
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326DU	7.1
		NEW	Non-SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326DV	7.3
		N/A	Non-SCC	2.0T	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326DE	0.5
		N/A	Non-SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326DF	0.4
		N/A	Non-SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326DS	0.8
		N/A	Non-SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326DT	0.7

6) 2015-2018 Sonata 2.0T (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	2015-18	NEW	SCC	2.0T	Poor Engine Start	211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326CG	7.6		
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326CH	7.8		
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326CA	8.5		
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326CB	8.7		
		-	SCC	2.0T	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326CY	1.9	
		-	SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326CZ	1	
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326CK	7.6
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326CL	7.8
		NEW	SCC	2.0T	Engine Noise	211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326CO	7.6
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326CP	7.8
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326CU	7.6
		NEW	SCC	2.0T		211012GK32QQH	211112GK52QQH	211112GK72QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326CV	7.8
		N/A	SCC	2.0T	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326CE	0.5
		N/A	SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326CF	0.4
		N/A	SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326CS	0.8
		N/A	SCC	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326CT	0.7

7) 2015-2016 Sonata 2.4L (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SONATA	2015-16	NEW	Non-SCC	2.4L	Poor Engine Start	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FG	6.2	
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FH	6.4	
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326FA	7.1	
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326FB	7.3	
		-	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326FY	1.9
		-	Non-SCC	2.4L	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326FZ	1
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FK	6.2
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FL	6.4
		NEW	Non-SCC	2.4L	Engine Noise	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FO	6.2
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FP	6.4
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326FU	6.2
		NEW	Non-SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FV	6.4
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326FE	0.5
		N/A	Non-SCC	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326FF	0.4
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326FS	0.8
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326FT	0.7
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A		

8) 2015-2016 Sonata 2.4L (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	2015-16	NEW	SCC	2.4L	Poor Engine Start	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EG	6.7		
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EH	6.9		
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326EA	7.6		
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EB	7.8		
		-	SCC	2.4L	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326EY	1.9	
		-	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326EZ	1	
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EK	6.7	
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EL	6.9
		NEW	SCC	2.4L	Engine Noise	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EO	6.7
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EP	6.9
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326EU	6.7
		NEW	SCC	2.4L		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EV	6.9
		N/A	SCC	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326EE	0.5
		N/A	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326EF	0.4
		N/A	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326ES	0.8
		N/A	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326ET	0.7

9) 2017 Sonata 2.4L (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	17	NEW	Non-SCC	2.4L	Poor Engine Start	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FG	6.2		
		NEW	Non-SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FG	6.2		
		NEW	Non-SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FH	6.4		
		NEW	Non-SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FH	6.4		
		NEW	Non-SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326FA	7.1		
		NEW	Non-SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326FA	7.1		
		NEW	Non-SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326FB	7.3		
		NEW	Non-SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326FB	7.3		
		-	Non-SCC	2.4L		PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326FY	1.9
		-	Non-SCC				N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326FZ	1
		NEW	Non-SCC	2.4L	211012GK33QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FK	6.2		
		NEW	Non-SCC		211012GK34QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FK	6.2		
		NEW	Non-SCC	2.4L	211012GK33QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FL	6.4		
		NEW	Non-SCC		211012GK34QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FL	6.4		
		NEW	Non-SCC	2.4L	211012GK33QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FO	6.2		
		NEW	Non-SCC		211012GK34QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FO	6.2		
		NEW	Non-SCC	2.4L	211012GK33QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FP	6.4		
		NEW	Non-SCC		211012GK34QQH		211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FP	6.4		
		NEW	Non-SCC	2.4L	Engine Noise	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326FU	6.2	
		NEW	Non-SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326FU	6.2	
		NEW	Non-SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FV	6.4	
		NEW	Non-SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FV	6.4	
		N/A	Non-SCC	2.4L		Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326FE	0.5
		N/A	Non-SCC				N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326FF	0.4
		N/A	Non-SCC				N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326FS	0.8
		N/A	Non-SCC				N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326FT	0.7

10) 2017 Sonata 2.4L (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	17	NEW	SCC	2.4L	Poor Engine Start	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EG	6.7		
		NEW	SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EG	6.7		
		NEW	SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EH	6.9		
		NEW	SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EH	6.9		
		NEW	SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326EA	7.6		
		NEW	SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326EA	7.6		
		NEW	SCC	2.4L		211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326EB	7.8		
		NEW	SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326EB	7.8		
		-	SCC	2.4L		PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326EY	1.9
		-	SCC				N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326EZ	1	
		NEW	SCC	2.4L	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EK	6.7	
		NEW	SCC		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EK	6.7	
		NEW	SCC	2.4L	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EL	6.9	
		NEW	SCC		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EL	6.9	
		NEW	SCC	2.4L	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EO	6.7	
		NEW	SCC		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EO	6.7	
		NEW	SCC	2.4L	Engine Noise	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EP	6.9
		NEW	SCC			211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EP	6.9
		NEW	SCC	2.4L	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326EU	6.7
		NEW	SCC		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326EU	6.7
		NEW	SCC	2.4L	211012GK33QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EV	6.9
		NEW	SCC		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EV	6.9
		N/A	SCC	2.4L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326EE	0.5
		N/A	SCC			N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326EF	0.4
		N/A	SCC			N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326ES	0.8
		N/A	SCC			N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326ET	0.7

11) 2018 Sonata 2.4L (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	18	NEW	Non-SCC	2.4L	Poor Engine Start	211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FG	6.2		
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FH	6.4		
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326FA	7.1		
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FB	7.3		
		-	Non-SCC	2.4L	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326FY	1.9	
		-	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326FZ	1		
		NEW	Non-SCC	2.4L	Engine Noise	211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FK	6.2	
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FL	6.4	
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326FO	6.2	
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FP	6.4	
		NEW	Non-SCC	2.4L	Not Specified	211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326FU	6.2
		NEW	Non-SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326FV	6.4
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326FE	0.5
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326FF	0.4
		N/A	Non-SCC	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326FS	0.8
		N/A	Non-SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326FT	0.7

12) 2018 Sonata 2.4L (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SONATA	18	NEW	SCC	2.4L	Poor Engine Start	211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EG	6.7	
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EH	6.9	
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326EA	7.6	
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EB	7.8	
		-	SCC	2.4L	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326EY	1.9
		-	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326EZ	1
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EK	6.7
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EL	6.9
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326EO	6.7
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EP	6.9
		NEW	SCC	2.4L	Engine Noise	211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326EU	6.7
		NEW	SCC	2.4L		211012GK34QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326EV	6.9
		N/A	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326EE	0.5
		N/A	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326EF	0.4
		N/A	SCC	2.4L	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326ES	0.8
		N/A	SCC	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326ET	0.7

13) 2013 Santa Fe Sport 2.0T (FWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time
SANTA FE SPORT	13	NEW	Non-SCC	2.0T (FWD)	Poor Engine Start	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LG	6.9
		RM	Non-SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LI	6.9
		NEW	Non-SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LH	7.1
		RM	Non-SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LJ	7.1
		NEW	Non-SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326LA	7.8
		RM	Non-SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326LC	7.8
		NEW	Non-SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326LB	8
		RM	Non-SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326LD	8
		-	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326LY	2.3
		-	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326LZ	1
		NEW	Non-SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LK	6.9
		RM	Non-SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LM	6.9
		NEW	Non-SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LL	7.1	
		RM	Non-SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LN	7.1	
		NEW	Non-SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LO	6.9	
		RM	Non-SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LQ	6.9	
		NEW	Non-SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LP	7.1	
		RM	Non-SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LR	7.1	
		NEW	Non-SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326LU	6.9	
		RM	Non-SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326LW	6.9	

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											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update		
	NEW	Non-SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A			8P1326LV	7.1
											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update		
	RM	Non-SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A			8P1326LX	7.1
	N/A	Non-SCC	2.0T (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326LE	0.5
	N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326LF	0.4
	N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326LS	0.8
	N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326LT	0.7
	N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A				

14) 2013 Santa Fe Sport 2.0T (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time
SANTA FE SPORT	13	NEW	SCC	2.0T (FWD)	Poor Engine Start	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KG	7.4
		RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KI	7.4
		NEW	SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KH	7.6
		RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KJ	7.6
		NEW	SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326KA	8.3
		RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326KC	8.3
		NEW	SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326KB	8.5
		RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326KD	8.5
		-	SCC	2.0T (FWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326KY	2.3
		-	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326KZ	1
		NEW	SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KK	7.4	
		RM	SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KM	7.4	
		NEW	SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KL	7.6	
		RM	SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KN	7.6	
		NEW	SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KO	7.4	
		RM	SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KQ	7.4	
		NEW	SCC	2.0T (FWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KP	7.6	
		RM	SCC	2.0T (FWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KR	7.6	
		NEW	SCC	2.0T (FWD)	Engine Noise	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326KU	7.4
		RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326KW	7.4
		NEW	SCC	2.0T (FWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KV	7.6
		RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KV	7.6

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											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KX	7.6
	RM	SCC	2.0T (FWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A				
	N/A	SCC	2.0T (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326KE	0.5
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326KF	0.4
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326KS	0.8
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326KT	0.7
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A				

15) 2013 Santa Fe Sport 2.0T (AWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	13	NEW	Non-SCC	2.0T (AWD)	Poor Engine Start	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NG	7.3	
		RM	Non-SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NI	7.3	
		NEW	Non-SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NH	7.5	
		RM	Non-SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NJ	7.5	
		NEW	Non-SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326NA	8.2	
		RM	Non-SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326NC	8.2	
		NEW	Non-SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326NB	8.5	
		RM	Non-SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326ND	8.5	
		-	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326NY	2.3
		-	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326NZ	1
		NEW	Non-SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NK	7.3	
		RM	Non-SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NM	7.3	
		NEW	Non-SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NL	7.5		
		RM	Non-SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NN	7.5		
		NEW	Non-SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NO	7.3		
		RM	Non-SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NQ	7.3		
		NEW	Non-SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NP	7.5		
		RM	Non-SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NR	7.5		
		NEW	Non-SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326NU	7.3		
		RM	Non-SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326NW	7.3		

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											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update			
	NEW	Non-SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A			8P1326NV	7.5	
	RM	Non-SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A		Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NX	7.5	
	N/A	Non-SCC	2.0T (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326NE	0.5	
	N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326NF	0.4
	N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326NS	0.8
	N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326NT	0.7
	N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A				

16) 2013 Santa Fe Sport 2.0T (AWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	13	NEW	SCC	2.0T (AWD)	Poor Engine Start	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MG	7.8	
		RM	SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MI	7.8	
		NEW	SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MH	8	
		RM	SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MJ	8	
		NEW	SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326MA	8.7	
		RM	SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326MC	8.7	
		NEW	SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326MB	8.9	
		RM	SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326MD	8.9	
		-	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326MY	2.3
		-	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326MZ	1
		NEW	SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MK	7.8	
		RM	SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MM	7.8	
		NEW	SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326ML	8	
		RM	SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MN	8	
		NEW	SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MO	7.8	
		RM	SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MQ	7.8	
		NEW	SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MP	8	
		RM	SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MR	8	
		NEW	SCC	2.0T (AWD)	211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326MU	7.8	
		RM	SCC	2.0T (AWD)	211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine	8P1326MW	7.8	

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										+ New ECM S/W Available (NO)			
										Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MV	8	
	NEW	SCC	2.0T (AWD)		211012GK03QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A				
										Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MX	8	
	RM	SCC	2.0T (AWD)		211012GK03QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A				
										Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326ME	0.5	
	N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A				
										Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326MF	0.4	
	N/A	SCC	2.0T (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A				
											Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326MS	0.8
	N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A			
										Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326MT	0.7	
	N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A				

17) 2014-2016 Santa Fe Sport 2.0T (FWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE SPORT	2014-16	NEW	Non-SCC	2.0T (FWD)	Poor Engine Start	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LG	6.9		
		RM	Non-SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LI	6.9		
		NEW	Non-SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LH	7.1		
		RM	Non-SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LJ	7.1		
		NEW	Non-SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326LA	7.8		
		RM	Non-SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326LC	7.8		
		NEW	Non-SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326LB	8		
		RM	Non-SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326LD	8		
		-	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326LY	2.3	
		-	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326LZ	1	
		NEW	Non-SCC	2.0T (FWD)	211012GK04QQH	PMIL-ON P1326	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LK	6.9	
		RM	Non-SCC	2.0T (FWD)	211012GK04QQHRM		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LM	6.9		
		NEW	Non-SCC	2.0T (FWD)	211012GK04QQH		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LL	7.1		
		RM	Non-SCC	2.0T (FWD)	211012GK04QQHRM		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LN	7.1		
		NEW	Non-SCC	2.0T (FWD)	211012GK04QQH		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LO	6.9		
		RM	Non-SCC	2.0T (FWD)	211012GK04QQHRM		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LQ	6.9		
		NEW	Non-SCC	2.0T (FWD)	211012GK04QQH		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LP	7.1		
		RM	Non-SCC	2.0T (FWD)	211012GK04QQHRM		211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LR	7.1		
		NEW	Non-SCC	2.0T (FWD)	211012GK04QQH		Engine Noise	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326LU	6.9
		RM	Non-SCC	2.0T (FWD)	211012GK04QQHRM			211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326LW	6.9	

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		NEW	Non-SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LV	7.1
		RM	Non-SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LX	7.1
		N/A	Non-SCC	2.0T (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326LE	0.5
		N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326LF	0.4
		N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326LS	0.8
		N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326LT	0.7

18) 2014-2016 Santa Fe Sport 2.0T (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	SCC	2.0T (FWD)	Poor Engine Start	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KG	7.4	
		RM	SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KI	7.4	
		NEW	SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KH	7.6	
		RM	SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KJ	7.6	
		NEW	SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326KA	8.3	
		RM	SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326KC	8.3	
		NEW	SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326KB	8.5	
		RM	SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326KD	8.5	
		-	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Replace Knock Sensor	8P1326KY	2.3
		-	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326KZ	1
		NEW	SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KK	7.4	
		RM	SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KM	7.4	
		NEW	SCC	2.0T (FWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KL	7.6		
		RM	SCC	2.0T (FWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KN	7.6		
		NEW	SCC	2.0T (FWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KO	7.4		
		RM	SCC	2.0T (FWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KQ	7.4		
		NEW	SCC	2.0T (FWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KP	7.6		
		RM	SCC	2.0T (FWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KR	7.6		
		NEW	SCC	2.0T (FWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326KU	7.4		
		RM	SCC	2.0T (FWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace	8P1326KW	7.4		

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										Engine + New ECM S/W Available (NO)		
										Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update		
	NEW	SCC	2.0T (FWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A		8P1326KV	7.6
										Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update		
	RM	SCC	2.0T (FWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A		8P1326KX	7.6
										Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures		
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		8P1326KE	0.5
										Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)		
	N/A	SCC	2.0T (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A		8P1326KF	0.4
										Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline		
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		8P1326KS	0.8
										Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)		
	N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A		8P1326KT	0.7

19) 2014-2016 Santa Fe Sport 2.0T (AWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	Non-SCC	2.0T (AWD)	Poor Engine Start	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NG	7.3	
		RM	Non-SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NI	7.3	
		NEW	Non-SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NH	7.5	
		RM	Non-SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NJ	7.5	
		NEW	Non-SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326NA	8.2	
		RM	Non-SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326NC	8.2	
		NEW	Non-SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326NB	8.5	
		RM	Non-SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326ND	8.5	
		-	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Replace Knock Sensor	8P1326NY	2.3
		-	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326NZ	1
		NEW	Non-SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NK	7.3	
		RM	Non-SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NM	7.3	
		NEW	Non-SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NL	7.5		
		RM	Non-SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NN	7.5		
		NEW	Non-SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NO	7.3		
		RM	Non-SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NQ	7.3		
		NEW	Non-SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NP	7.5		
		RM	Non-SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NR	7.5		
		NEW	Non-SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326NU	7.3		
		RM	Non-SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine	8P1326NW	7.3		

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											+ New ECM S/W Available (NO)		
		NEW	Non-SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NV	7.5
		RM	Non-SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NX	7.5
		N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326NE	0.5
		N/A	Non-SCC	2.0T (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326NF	0.4
		N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326NS	0.8
		N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326NT	0.7

20) 2014-2016 Santa Fe Sport 2.0T (AWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	SCC	2.0T (AWD)	Poor Engine Start	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MG	7.8	
		RM	SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MI	7.8	
		NEW	SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MH	8	
		RM	SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MJ	8	
		NEW	SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326MA	8.7	
		RM	SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326MC	8.7	
		NEW	SCC	2.0T (AWD)		211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326MB	8.9	
		RM	SCC	2.0T (AWD)		211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326MD	8.9	
		-	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326MY	2.3
		-	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326MZ	1
		NEW	SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MK	7.8	
		RM	SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MM	7.8	
		NEW	SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326ML	8	
		RM	SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MN	8	
		NEW	SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MO	7.8	
		RM	SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MQ	7.8	
		NEW	SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MP	8	
		RM	SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MR	8	
		NEW	SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326MU	7.8	
		RM	SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326MW	7.8	
		NEW	SCC	2.0T (AWD)	211012GK04QQH	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MV	8	
		RM	SCC	2.0T (AWD)	211012GK04QQHRM	211112GK60QQH	211112GK80QQH	254702G650QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W	8P1326MX	8	

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											Available (YES) + ECM Update		
		N/A	SCC	2.0T (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326ME	0.5
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326MF	0.4
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326MS	0.8
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326MT	0.7
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A			

21) 2017-2018 Santa Fe Sport 2.0T (FWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE SPORT	2017-18	NEW	Non-SCC	2.0T (FWD)	Poor Engine Start	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LG	6.9		
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LH	7.1		
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326LA	7.8		
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326LB	8		
		-	Non-SCC	2.0T (FWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326LY	2.3	
		-	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326LZ	1	
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LK	6.9	
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LL	7.1	
		NEW	Non-SCC	2.0T (FWD)	Engine Noise	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326LO	6.9	
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LP	7.1	
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326LU	6.9	
		NEW	Non-SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326LV	7.1	
		N/A	Non-SCC	2.0T (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326LE	0.5
		N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326LF	0.4
		N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326LS	0.8
		N/A	Non-SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326LT	0.7

22) 2017-2018 Santa Fe Sport 2.0T (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2017-18	NEW	SCC	2.0T (FWD)	Poor Engine Start	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KG	7.4	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KH	7.6	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326KA	8.3	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KB	8.5	
		-	SCC	2.0T (FWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326KY	2.3
		-	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326KZ	1
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KK	7.4	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KL	7.6	
		NEW	SCC	2.0T (FWD)	Engine Noise	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326KO	7.4	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KP	7.6	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326KU	7.4	
		NEW	SCC	2.0T (FWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326KV	7.6	
		N/A	SCC	2.0T (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326KE	0.5
		N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326KF	0.4
		N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326KS	0.8
		N/A	SCC	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326KT	0.7

23) 2017-2018 Santa Fe Sport 2.0T (AWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2017-18	NEW	Non-SCC	2.0T (AWD)	Poor Engine Start	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NG	7.3	
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NH	7.5	
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326NA	8.2	
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326NB	8.5	
		-	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326NY	2.3
		-	Non-SCC	2.0T (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326NZ	1
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NK	7.3
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NL	7.5
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326NO	7.3
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NP	7.5
		NEW	Non-SCC	2.0T (AWD)	Engine Noise	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326NU	7.3
		NEW	Non-SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326NV	7.5
		N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326NE	0.5
		N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326NF	0.4
		N/A	Non-SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326NS	0.8
		N/A	Non-SCC	2.0T (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326NT	0.7

24) 2017-2018 Santa Fe Sport 2.0T (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE SPORT	2017-18	NEW	SCC	2.0T (AWD)	Poor Engine Start	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MG	7.8		
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MH	8		
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326MA	8.7		
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326MB	8.9		
		-	SCC	2.0T (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326MY	2.3	
		-	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326MZ	1	
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MK	7.8	
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326ML	8	
		NEW	SCC	2.0T (AWD)	Engine Noise	211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326MO	7.8	
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MP	8	
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326MU	7.8	
		NEW	SCC	2.0T (AWD)		211012GK32QQH	211112GK52QQH	211112GK73QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326MV	8	
		N/A	SCC	2.0T (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326ME	0.5
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326MF	0.4
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326MS	0.8
		N/A	SCC	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326MT	0.7

25) 2013 Santa Fe Sport 2.4L (FWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	13	NEW	Non-SCC	2.4L (FWD)	Poor Engine Start	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HG	6.1	
		RM	Non-SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HI	6.1	
		NEW	Non-SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HH	6.3	
		RM	Non-SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HJ	6.3	
		NEW	Non-SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326HA	7	
		RM	Non-SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326HC	7	
		NEW	Non-SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326HB	7.2	
		RM	Non-SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326HD	7.2	
		-	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326HY	1.9
		-	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326HZ	1
		NEW	Non-SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HK	6.1	
		RM	Non-SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HM	6.1	
		NEW	Non-SCC	2.4L (FWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HL	6.3		
		RM	Non-SCC	2.4L (FWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HN	6.3		
		NEW	Non-SCC	2.4L (FWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HO	6.1		
		RM	Non-SCC	2.4L (FWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HQ	6.1		
		NEW	Non-SCC	2.4L (FWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HP	6.3		
		RM	Non-SCC	2.4L (FWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HR	6.3		
		NEW	Non-SCC	2.4L (FWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326HU	6.1		
		RM	Non-SCC	2.4L (FWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326HW	6.1		

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											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update			
	NEW	Non-SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A			8P1326HV	6.3	
	RM	Non-SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A		Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update		8P1326HX 6.3	
	N/A	Non-SCC	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures		80CA08HE 0.5	
	N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A		Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)		80CA08HF 0.4
	N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline		80CA08HS 0.8
	N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A		Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)		80CA08HT 0.7
	N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A				

26) 2013 Santa Fe Sport 2.4L (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE SPORT	13	NEW	SCC	2.4L (FWD)	Poor Engine Start	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GG	6.6		
		RM	SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GI	6.6		
		NEW	SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GH	6.8		
		RM	SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GJ	6.8		
		NEW	SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326GA	7.5		
		RM	SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326GC	7.5		
		NEW	SCC	2.4L (FWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326GB	7.7		
		RM	SCC	2.4L (FWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326GD	7.7		
		-	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326GY	1.9	
		-	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326GZ	1	
		NEW	SCC	2.4L (FWD)	211012GK01QQH	PMIL-ON P1326	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GK	6.6	
		RM	SCC	2.4L (FWD)	211012GK01QQHRM		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GM	6.6		
		NEW	SCC	2.4L (FWD)	211012GK01QQH		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GL	6.8		
		RM	SCC	2.4L (FWD)	211012GK01QQHRM		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GN	6.8		
		NEW	SCC	2.4L (FWD)	211012GK01QQH		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GO	6.6		
		RM	SCC	2.4L (FWD)	211012GK01QQHRM		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GQ	6.6		
		NEW	SCC	2.4L (FWD)	211012GK01QQH		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GP	6.8		
		RM	SCC	2.4L (FWD)	211012GK01QQHRM		211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GR	6.8		
		NEW	SCC	2.4L (FWD)	211012GK01QQH		Engine Noise	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326GU	6.6
		RM	SCC	2.4L (FWD)	211012GK01QQHRM			211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326GW	6.6	
		NEW	SCC	2.4L (FWD)	211012GK01QQH	211112GK50QQH		211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GV	6.8		
		RM	SCC	2.4L (FWD)	211012GK01QQHRM	211112GK50QQH		211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GV	6.8		

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											Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update			
	RM	SCC	2.4L (FWD)	Not Specified	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A			8P1326GX	6.8	
	N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures		80CA08GE	0.5
	N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)		80CA08GF	0.4
	N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline		80CA08GS	0.8
	N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)		80CA08GT	0.7

27) 2013 Santa Fe Sport 2.4L (AWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	13	NEW	Non-SCC	2.4L (AWD)	Poor Engine Start	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JG	6.5	
		RM	Non-SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JI	6.5	
		NEW	Non-SCC	2.4L (AWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JH	6.7	
		RM	Non-SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JJ	6.7	
		NEW	Non-SCC	2.4L (AWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326JA	7.4	
		RM	Non-SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326JC	7.4	
		NEW	Non-SCC	2.4L (AWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326JB	7.6	
		RM	Non-SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326JD	7.6	
		-	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326JY	1.9
		-	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326JZ	1
		NEW	Non-SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JK	6.5		
		RM	Non-SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JM	6.5		
		NEW	Non-SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JL	6.7		
		RM	Non-SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JN	6.7		
		NEW	Non-SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JO	6.5		
		RM	Non-SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JQ	6.5		
		NEW	Non-SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JP	6.7		
		RM	Non-SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JR	6.7		
		NEW	Non-SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326JU	6.5		
		RM	Non-SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326JW	6.5		
		NEW	Non-SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JV	6.7		
		RM	Non-SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JX	6.7		
		N/A	Non-SCC	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08JE	0.5	

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		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08JF	0.4
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08JS	0.8
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08JT	0.7

28) 2013 Santa Fe Sport 2.4L (AWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	13	NEW	SCC	2.4L (AWD)	Poor Engine Start	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IG	7	
		RM	SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326II	7	
		NEW	SCC	2.4L (AWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IH	7.2	
		RM	SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IJ	7.2	
		NEW	SCC	2.4L (AWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326IA	7.9	
		RM	SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326IC	7.9	
		NEW	SCC	2.4L (AWD)		211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326IB	8.1	
		RM	SCC	2.4L (AWD)		211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326ID	8.1	
		-	SCC	2.4L (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326IY	1.9
		-	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326IZ	1
		NEW	SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IK	7		
		RM	SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IM	7		
		NEW	SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IL	7.2		
		RM	SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IN	7.2		
		NEW	SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IO	7		
		RM	SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IQ	7		
		NEW	SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IP	7.2		
		RM	SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IR	7.2		
		NEW	SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326IU	7		
		RM	SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326IW	7		
		NEW	SCC	2.4L (AWD)	211012GK01QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IV	7.2		
		RM	SCC	2.4L (AWD)	211012GK01QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IX	7.2		
		N/A	SCC	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08IE	0.5

SUBJECT: THETA GDI ENGINE DTC P1326 OP CODE/PART NUMBER REFERENCE

		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08IF	0.4
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08IS	0.8
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08IT	0.7

29) 2014-16 Santa Fe Sport 2.4L (FWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	Non-SCC	2.4L (FWD)	Poor Engine Start	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HG	6.1	
		RM	Non-SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HI	6.1	
		NEW	Non-SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HH	6.3	
		RM	Non-SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HJ	6.3	
		NEW	Non-SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326HA	7	
		RM	Non-SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326HC	7	
		NEW	Non-SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326HB	7.2	
		RM	Non-SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326HD	7.2	
		-	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326HY	1.9
		-	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326HZ	1
		NEW	Non-SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HK	6.1	
		RM	Non-SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HM	6.1	
		NEW	Non-SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HL	6.3	
		RM	Non-SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HN	6.3	
		NEW	Non-SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HO	6.1		
		RM	Non-SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HQ	6.1		
		NEW	Non-SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HP	6.3		
		RM	Non-SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HR	6.3		
		NEW	Non-SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326HU	6.1		
		RM	Non-SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326HW	6.1		
		NEW	Non-SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HV	6.3		
		RM	Non-SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HX	6.3		
		N/A	Non-SCC	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08HE	0.5	

SUBJECT: THETA GDI ENGINE DTC P1326 OP CODE/PART NUMBER REFERENCE

		N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08HF	0.4
		N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08HS	0.8
		N/A	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08HT	0.7

30) 2014-16 Santa Fe Sport 2.4L (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	SCC	2.4L (FWD)	Poor Engine Start	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GG	6.6	
		RM	SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GI	6.6	
		NEW	SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GH	6.8	
		RM	SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GJ	6.8	
		NEW	SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326GA	7.5	
		RM	SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326GC	7.5	
		NEW	SCC	2.4L (FWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326GB	7.7	
		RM	SCC	2.4L (FWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326GD	7.7	
		-	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326GY	1.9
		-	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326GZ	1
		NEW	SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GK	6.6	
		RM	SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GM	6.6	
		NEW	SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GL	6.8	
		RM	SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GN	6.8	
		NEW	SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GO	6.6	
		RM	SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GQ	6.6	
		NEW	SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GP	6.8	
		RM	SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GR	6.8	
		NEW	SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326GU	6.6	
		RM	SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326GW	6.6	
		NEW	SCC	2.4L (FWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GV	6.8	
		RM	SCC	2.4L (FWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GX	6.8	
		N/A	SCC	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08GE	0.5

SUBJECT: THETA GDI ENGINE DTC P1326 OP CODE/PART NUMBER REFERENCE

		N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08GF	0.4
		N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08GS	0.8
		N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08GT	0.7

31) 2014-16 Santa Fe Sport 2.4L (AWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	Non-SCC	2.4L (AWD)	Poor Engine Start	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JG	6.5	
		RM	Non-SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JI	6.5	
		NEW	Non-SCC	2.4L (AWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JH	6.7	
		RM	Non-SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JJ	6.7	
		NEW	Non-SCC	2.4L (AWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326JA	7.4	
		RM	Non-SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326JC	7.4	
		NEW	Non-SCC	2.4L (AWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JB	7.6	
		RM	Non-SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JD	7.6	
		-	Non-SCC	2.4L (AWD)	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326JY	1.9	
		-	Non-SCC	2.4L (AWD)	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326JZ	1	
		NEW	Non-SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JK	6.5	
		RM	Non-SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JM	6.5	
		NEW	Non-SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JL	6.7	
		RM	Non-SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JN	6.7	
		NEW	Non-SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JO	6.5	
		RM	Non-SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JQ	6.5	
		NEW	Non-SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JP	6.7	
		RM	Non-SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JR	6.7	
		NEW	Non-SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326JU	6.5	
		RM	Non-SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326JW	6.5	
		NEW	Non-SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JV	6.7	
		RM	Non-SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JX	6.7	
		N/A	Non-SCC	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08JE	0.5

SUBJECT: THETA GDI ENGINE DTC P1326 OP CODE/PART NUMBER REFERENCE

		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08JF	0.4
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08JS	0.8
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08JT	0.7

32) 2014-16 Santa Fe Sport 2.4L (AWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2014-16	NEW	SCC	2.4L (AWD)	Poor Engine Start	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IG	7	
		RM	SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326II	7	
		NEW	SCC	2.4L (AWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IH	7.2	
		RM	SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IJ	7.2	
		NEW	SCC	2.4L (AWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326IA	7.9	
		RM	SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326IC	7.9	
		NEW	SCC	2.4L (AWD)		211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326IB	8.1	
		RM	SCC	2.4L (AWD)		211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326ID	8.1	
		-	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326IY	1.9
		-	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326IZ	1
		NEW	SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IK	7	
		RM	SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IM	7	
		NEW	SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IL	7.2	
		RM	SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IN	7.2	
		NEW	SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IO	7	
		RM	SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IQ	7	
		NEW	SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IP	7.2	
		RM	SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IR	7.2	
		NEW	SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326IU	7	
		RM	SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326IW	7	
		NEW	SCC	2.4L (AWD)	211012GK02QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IV	7.2	
		RM	SCC	2.4L (AWD)	211012GK02QQHRM	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IX	7.2	
		N/A	SCC	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08IE	0.5	

SUBJECT: THETA GDI ENGINE DTC P1326 OP CODE/PART NUMBER REFERENCE

		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA081F	0.4
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA081S	0.8
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA081T	0.7

33) 2017-18 Santa Fe Sport 2.4L (FWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2017-18	NEW	Non-SCC	2.4L (FWD)	Poor Engine Start	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HG	6.1	
		NEW	Non-SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HH	6.3	
		NEW	Non-SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326HA	7	
		NEW	Non-SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HB	7.2	
		-	Non-SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326HY	1.9
		-	Non-SCC	2.4L (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326HZ	1	
		NEW	Non-SCC	2.4L (FWD)	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HK	6.1	
		NEW	Non-SCC	2.4L (FWD)	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HL	6.3	
		NEW	Non-SCC	2.4L (FWD)	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326HO	6.1	
		NEW	Non-SCC	2.4L (FWD)	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HP	6.3	
		NEW	Non-SCC	2.4L (FWD)	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326HU	6.1	
		NEW	Non-SCC	2.4L (FWD)	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326HV	6.3	
		N/A	Non-SCC	2.4L (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08HE	0.5
		N/A	Non-SCC	2.4L (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08HF	0.4
		N/A	Non-SCC	2.4L (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08HS	0.8
		N/A	Non-SCC	2.4L (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08HT	0.7

34) 2017-18 Santa Fe Sport 2.4L (FWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2017-18	NEW	SCC	2.4L (FWD)	Poor Engine Start	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GG	6.6	
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GH	6.8	
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326GA	7.5	
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326GB	7.7	
		-	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326GY	1.9
		-	SCC	2.4L (FWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326GZ	1
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GK	6.6
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GL	6.8
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326GO	6.6
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GP	6.8
		NEW	SCC	2.4L (FWD)	Engine Noise	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326GU	6.6
		NEW	SCC	2.4L (FWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326GV	6.8
		N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08GE	0.5
		N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08GF	0.4
		N/A	SCC	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08GS	0.8
		N/A	SCC	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08GT	0.7

35) 2017-18 Santa Fe Sport 2.4L (AWD) (non-SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
SANTA FE SPORT	2017-18	NEW	Non-SCC	2.4L (AWD)	Poor Engine Start	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JG	6.5	
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JH	6.7	
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326JA	7.4	
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326JB	7.6	
		-	Non-SCC	2.4L (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326JY	1.9
		-	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326JZ	1
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JK	6.5
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JL	6.7
		NEW	Non-SCC	2.4L (AWD)	Engine Noise	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326JO	6.5
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JP	6.7
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326JU	6.5
		NEW	Non-SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326JV	6.7
		N/A	Non-SCC	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08JE	0.5
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08JF	0.4
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08JS	0.8
		N/A	Non-SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08JT	0.7

36) 2017-18 Santa Fe Sport 2.4L (AWD) (SCC) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE SPORT	2017-18	NEW	SCC	2.4L (AWD)	Poor Engine Start	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IG	7		
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IH	7.2		
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326IA	7.9		
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326IB	8.1		
		-	SCC	2.4L (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326IY	1.9	
		-	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326IZ	1	
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IK	7	
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IL	7.2	
		NEW	SCC	2.4L (AWD)	Engine Noise	211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326IO	7
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IP	7.2
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326IU	7
		NEW	SCC	2.4L (AWD)		211012GK31QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326IV	7.2
		N/A	SCC	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	80CA08IE	0.5
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	80CA08IF	0.4
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	80CA08IS	0.8
		N/A	SCC	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	80CA08IT	0.7

37) 2014-15 Tucson 2.4L (FWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
TUCSON	2014-15	NEW	N/A	2.4L (FWD)	Poor Engine Start	211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326QG	6	
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326QH	6.2	
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326QA	6.9	
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326QB	7.1	
		-	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326QY	1.3
		-	N/A	2.4L (FWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326QZ	1
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326QK	6	
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326QL	6.2	
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326QO	6	
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326QP	6.2	
		NEW	N/A	2.4L (FWD)	Engine Noise	211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326QU	6
		NEW	N/A	2.4L (FWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326QV	6.2
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326QE	0.5
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326QF	0.4
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326QS	0.8
		N/A	N/A	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326QT	0.7

38) 2014-15 Tucson 2.4L (AWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time	
TUCSON	2014-15	NEW	N/A	2.4L (AWD)	Poor Engine Start	211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326RG	6.5	
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326RH	6.7	
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326RA	7.4	
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326RB	7.6	
		-	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326RY	1.3
		-	N/A	2.4L (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326RZ	1
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326RK	6.5	
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326RL	6.7	
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326RO	6.5	
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326RP	6.7	
		NEW	N/A	2.4L (AWD)	Engine Noise	211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326RU	6.5
		NEW	N/A	2.4L (AWD)		211012GK36QQH	211112GK50QQH	211112GK70QQH	254702G050QQH	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326RV	6.7
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326RE	0.5
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326RF	0.4
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326RS	0.8
		N/A	N/A	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326RT	0.7

39) 2018 Tucson 2.4L (FWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
TUCSON	18	NEW	N/A	2.4L (FWD)	Poor Engine Start	211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326OG	5.9		
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326OH	6.1		
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326OA	6.8		
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326OB	7		
		-	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326OY	1.9	
		-	N/A	2.4L (FWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326OZ	1	
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326OK	5.9	
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326OL	6.1	
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326OO	5.9	
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326OP	6.1	
		NEW	N/A	2.4L (FWD)	Engine Noise	211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326OU	5.9
		NEW	N/A	2.4L (FWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326OV	6.1
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326NEW	0.5
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326OF	0.4
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326OS	0.8
		N/A	N/A	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326OT	0.7

40) 2018 Tucson 2.4L (AWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
TUCSON	18	NEW	N/A	2.4L (AWD)	Poor Engine Start	211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326PG	6.3		
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326PH	6.5		
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	8P1326PA	7.2		
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	8P1326PB	7.4		
		-	N/A	2.4L (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	8P1326PY	1.9	
		-	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	8P1326PZ	1	
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326PK	6.3	
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326PL	6.5	
		NEW	N/A	2.4L (AWD)	Engine Noise	211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	8P1326PO	6.3	
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326PP	6.5	
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	8P1326PU	6.3	
		NEW	N/A	2.4L (AWD)		211012GK52QQH	211112GK51QQH	211112GK71QQH	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	8P1326PV	6.5	
		N/A	N/A	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	8P1326PE	0.5
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	8P1326PF	0.4
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	8P1326PS	0.8
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	8P1326PT	0.7

41) 2019 Sonata 2.0T Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SONATA	19	NEW	N/A	2.0T	Poor Engine Start	211012GK16	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F47	8.5		
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F47	8.5	
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F48	8.4	
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F48	8.4	
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F43	8.2	
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F43	8.2	
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F44	8.1	
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F44	8.1	
		-	N/A	2.0T	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101F57	1.9	
		-	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101F58	0.7	
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F49	8.5
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F49	8.5
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F50	8.4
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F50	8.4
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F51	8.5
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F51	8.5
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F52	8.4
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F52	8.4
		NEW	N/A	2.0T		211012GK16	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101F55	8.5
		RM	N/A	2.0T		211012GK16HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101F55	8.5
		NEW	N/A	2.0T	211012GK16	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F56	8.4	
		RM	N/A	2.0T	211012GK16HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F56	8.4	
		N/A	N/A	2.0T	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101F45	0.5
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101F46	0.4
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101F53	0.8
		N/A	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101F54	0.7

42) 2019 Sonata 2.4L Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time			
SONATA	19	NEW	N/A	2.4L	Poor Engine Start	211012GK18	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F63	7.7			
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F63	7.7		
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F64	7.6		
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F64	7.6		
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F59	7.4		
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F59	7.4		
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F60	7.3		
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F60	7.3	
		-	N/A	2.4L	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101F73	1.9		
		-	N/A	2.4L		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101F74	0.7	
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F65	7.7	
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F65	7.7	
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F66	7.6	
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F66	7.6	
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F67	7.7	
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F67	7.7	
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F68	7.6	
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F68	7.6	
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101F71	7.7	
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101F71	7.7	
		NEW	N/A	2.4L		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F72	7.6	
		RM	N/A	2.4L		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F72	7.6	
		N/A	N/A	2.4L		Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101F61	0.5
		N/A	N/A	2.4L			N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101F62	0.4
		N/A	N/A	2.4L	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101F69	0.8	
		N/A	N/A	2.4L	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101F70	0.7	

43) 2019 Santa Fe 2.0T (FWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE	19	NEW	N/A	2.0T (FWD)	Poor Engine Start	211012GK17	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FB3	8.4		
		RM	N/A	2.0T (FWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FB3	8.4	
		NEW	N/A	2.0T (FWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FB4	8.3	
		RM	N/A	2.0T (FWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FB4	8.3	
		NEW	N/A	2.0T (FWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FA8	8.1
		RM	N/A	2.0T (FWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FA8	8.1
		NEW	N/A	2.0T (FWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FA9	8
		RM	N/A	2.0T (FWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FA9	8
		-	N/A	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101FC4	2.1
		-	N/A	2.0T (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101FC5	0.7
		NEW	N/A	2.0T (FWD)	211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FB5	8.4	
		RM	N/A	2.0T (FWD)	211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FB5	8.4	
		NEW	N/A	2.0T (FWD)	211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FB6	8.3	
		RM	N/A	2.0T (FWD)	211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FB6	8.3	
		NEW	N/A	2.0T (FWD)	211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FB7	8.4	
		RM	N/A	2.0T (FWD)	211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FB7	8.4	
		NEW	N/A	2.0T (FWD)	211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FB8	8.3	
		RM	N/A	2.0T (FWD)	211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FB8	8.3	
		NEW	N/A	2.0T (FWD)	211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FC2	8.4	
		RM	N/A	2.0T (FWD)	211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FC2	8.4	
		NEW	N/A	2.0T (FWD)	211012GK17	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FC3	8.3	
		RM	N/A	2.0T (FWD)	211012GK17HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FC3	8.3	
		N/A	N/A	2.0T (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101FB1	0.5	
		N/A	N/A	2.0T (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101FB2	0.4	
		N/A	N/A	2.0T (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101FB9	0.8	
		N/A	N/A	2.0T (FWD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101FC1	0.7	

44) 2019 Santa Fe 2.0T (AWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE	19	NEW	N/A	2.0T (AWD)	Poor Engine Start	211012GK17	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FD1	8.7		
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FD1	8.7		
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FD2	8.6		
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FD2	8.6		
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FC6	8.4		
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FC6	8.4		
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101FC7	8.3		
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101FC7	8.3		
		-	N/A	2.0T (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101FE2	2.1	
		-	N/A	2.0T (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101FE3	0.7	
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FD3	8.7	
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FD3	8.7	
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FD4	8.6	
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FD4	8.6	
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FD5	8.7	
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FD5	8.7	
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FD6	8.6	
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FD6	8.6	
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FD9	8.7	
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FD9	8.7	
		NEW	N/A	2.0T (AWD)		211012GK17	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FE1	8.6	
		RM	N/A	2.0T (AWD)		211012GK17HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FE1	8.6	
		N/A	N/A	2.0T (AWD)		Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101FC8	0.5
		N/A	N/A	2.0T (AWD)			N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101FC9	0.4
		N/A	N/A	2.0T (AWD)	N/A		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101FD7	0.8	
		N/A	N/A	2.0T (AWD)	N/A		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101FD8	0.7	

45) 2019 Santa Fe 2.4L (FWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
SANTA FE	19	NEW	N/A	2.4L (FWD)	Poor Engine Start	211012GK18	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FE8	7.9		
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FE8	7.9		
		NEW	N/A	2.4L (FWD)		211012GK18	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FE9	7.8		
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FE9	7.8		
		NEW	N/A	2.4L (FWD)		211012GK18	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FE4	7.6		
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FE4	7.6		
		NEW	N/A	2.4L (FWD)		211012GK18	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101FE5	7.5		
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101FE5	7.5		
		-	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101FF9	1.3	
		-	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101FG1	0.7	
		NEW	N/A	2.4L (FWD)	PMIL-ON P1326	211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FF1	7.9	
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FF1	7.9	
		NEW	N/A	2.4L (FWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FF2	7.8	
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FF2	7.8	
		NEW	N/A	2.4L (FWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FF3	7.9	
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FF3	7.9	
		NEW	N/A	2.4L (FWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FF4	7.8	
		RM	N/A	2.4L (FWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FF4	7.8	
		NEW	N/A	2.4L (FWD)		Engine Noise	211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FF7	7.9
		RM	N/A	2.4L (FWD)			211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FF7	7.9
		NEW	N/A	2.4L (FWD)	211012GK18		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FF8	7.8	
		RM	N/A	2.4L (FWD)	211012GK18HRM		N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FF8	7.8	
		N/A	N/A	2.4L (FWD)	N/A		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101FE6	0.5	
		N/A	N/A	2.4L (FWD)	N/A		N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101FE7	0.4	
		N/A	N/A	2.4L (FWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101FF5	0.8	
		N/A	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101FF6	0.7	

46) 2019 Santa Fe 2.4L (AWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time			
SANTA FE	19	NEW	N/A	2.4L (AWD)	Poor Engine Start	211012GK18	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FG6	8.2			
		RM	N/A	2.4L (AWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FG6	8.2		
		NEW	N/A	2.4L (AWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FG7	8.1		
		RM	N/A	2.4L (AWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FG7	8.1		
		NEW	N/A	2.4L (AWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FG2	7.9	
		RM	N/A	2.4L (AWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FG2	7.9	
		NEW	N/A	2.4L (AWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101FG3	7.8	
		RM	N/A	2.4L (AWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101FG3	7.8	
		-	N/A	2.4L (AWD)		PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101FH7	1.3	
		-	N/A	2.4L (AWD)			N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101FH8	0.7	
		NEW	N/A	2.4L (AWD)	211012GK18		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FG8	8.2	
		RM	N/A	2.4L (AWD)	211012GK18HRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FG8	8.2	
		NEW	N/A	2.4L (AWD)	211012GK18		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FG9	8.1	
		RM	N/A	2.4L (AWD)	211012GK18HRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FG9	8.1	
		NEW	N/A	2.4L (AWD)	211012GK18		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FH1	8.2	
		RM	N/A	2.4L (AWD)	211012GK18HRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101FH1	8.2	
		NEW	N/A	2.4L (AWD)	211012GK18		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FH2	8.1	
		RM	N/A	2.4L (AWD)	211012GK18HRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FH2	8.1	
		NEW	N/A	2.4L (AWD)	Engine Noise	211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FH5	8.2	
		RM	N/A	2.4L (AWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FH5	8.2	
		NEW	N/A	2.4L (AWD)		211012GK18	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FG6	8.1	
		RM	N/A	2.4L (AWD)		211012GK18HRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FG6	8.1	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101FG4	0.5	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101FG5	0.4	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101FH3	0.8	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101FH4	0.7	
		N/A	N/A	2.4L (AWD)		Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		N/A	N/A	2.4L (AWD)			N/A	N/A	N/A	N/A	N/A	N/A	N/A			

47) 2019 Tucson 2.4L (FWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time			
TUCSON	19	NEW	N/A	2.4L (FWD)	Poor Engine Start	1T20G2GA13F	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F79	7.8			
		RM	N/A	2.4L (FWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F79	7.8		
		NEW	N/A	2.4L (FWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F80	7.7		
		RM	N/A	2.4L (FWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F80	7.7		
		NEW	N/A	2.4L (FWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F75	7.5	
		RM	N/A	2.4L (FWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F75	7.5	
		NEW	N/A	2.4L (FWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F76	7.4	
		RM	N/A	2.4L (FWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F76	7.4	
		-	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101F89	1.9	
		-	N/A	2.4L (FWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101F90	0.7	
		NEW	N/A	2.4L (FWD)	1T20G2GA13F	PMIL-ON P1326	1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F81	7.8	
		RM	N/A	2.4L (FWD)	1T20G2GA13FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F81	7.8	
		NEW	N/A	2.4L (FWD)	1T20G2GA13F		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F82	7.7	
		RM	N/A	2.4L (FWD)	1T20G2GA13FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F82	7.7	
		NEW	N/A	2.4L (FWD)	1T20G2GA13F		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F83	7.8	
		RM	N/A	2.4L (FWD)	1T20G2GA13FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F83	7.8	
		NEW	N/A	2.4L (FWD)	1T20G2GA13F		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F84	7.7	
		RM	N/A	2.4L (FWD)	1T20G2GA13FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F84	7.7	
		NEW	N/A	2.4L (FWD)	1T20G2GA13F		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101F87	7.8	
		RM	N/A	2.4L (FWD)	1T20G2GA13FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101F87	7.8	
		NEW	N/A	2.4L (FWD)	1T20G2GA13F	Engine Noise	1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F88	7.7	
		RM	N/A	2.4L (FWD)	1T20G2GA13FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F88	7.7	
		N/A	N/A	2.4L (FWD)	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101F77	0.5	
		N/A	N/A	2.4L (FWD)	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101F78	0.4	
		N/A	N/A	2.4L (FWD)	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101F85	0.8	
		N/A	N/A	2.4L (FWD)	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101F86	0.7	
		N/A	N/A	2.4L (FWD)	N/A		Not Specified	N/A	N/A	N/A	N/A	N/A	N/A			
		N/A	N/A	2.4L (FWD)	N/A			N/A	N/A	N/A	N/A	N/A	N/A			
		N/A	N/A	2.4L (FWD)	N/A			N/A	N/A	N/A	N/A	N/A	N/A			
		N/A	N/A	2.4L (FWD)	N/A			N/A	N/A	N/A	N/A	N/A	N/A			

48) 2019 Tucson 2.4L (AWD) Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
TUCSON	19	NEW	N/A	2.4L (AWD)	Poor Engine Start	1T20G2GA13F	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F95	8.2		
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F95	8.2	
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F96	8.1	
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F96	8.1	
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F91	7.9	
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101F91	7.9	
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F92	7.8	
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM update	21101F92	7.8	
		-	N/A	2.4L (AWD)	PMIL-ON P1326	N/A	N/A	N/A	N/A	N/A	392502G100	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101FA6	1.9	
		-	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101FA7	0.7	
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F97	8.2
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F97	8.2
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F98	8.1
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F98	8.1
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F99	8.2
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F99	8.2
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FA1	8.1
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FA1	8.1
		NEW	N/A	2.4L (AWD)		1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FA4	8.2
		RM	N/A	2.4L (AWD)		1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FA4	8.2
		NEW	N/A	2.4L (AWD)	1T20G2GA13F	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21011FA5	8.1	
		RM	N/A	2.4L (AWD)	1T20G2GA13FHRM	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21011FA5	8.1	
		N/A	N/A	2.4L (AWD)	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101F93	0.5	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101F94	0.4	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101FA2	0.8	
		N/A	N/A	2.4L (AWD)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101FA3	0.7

49) 2019 Veloster N 2.0T Op Code Table

Model	MY	NEW/RM*	SCC/Non-SCC	Size	Vehicle Symptom	Engine	Service Kit 1	Service Kit 2	Oil Cooler Pipe	Knock Sensor	Operation Description	Op Code	Op Time		
VELOSTER N	19	NEW	N/A	2.0T	Poor Engine Start	1T05T2GA14F	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F14	8.9		
		RM	N/A	2.0T		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F14	8.9	
		NEW	N/A	2.0T		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F15	8.8	
		RM	N/A	2.0T		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F15	8.8	
		NEW	N/A	2.0T		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FH9	8.6	
		RM	N/A	2.0T		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (NO)	21101FH9	8.6	
		NEW	N/A	2.0T		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F11	8.5	
		RM	N/A	2.0T		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (YES) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F11	8.5	
		-	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	392502G700	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (NO) + Replace Knock Sensor	21101FJ5	2.1	
		-	N/A	2.0T		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (NO) + New ECM S/W Available (YES) + ECM Update	21101FJ6	0.7	
		NEW	N/A	2.0T	1T05T2GA14F	PMIL-ON P1326	1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F16	8.9
		RM	N/A	2.0T	1T05T2GA14FHRM		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F16	8.9
		NEW	N/A	2.0T	1T05T2GA14F		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F17	8.8
		RM	N/A	2.0T	1T05T2GA14FHRM		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F17	8.8
		NEW	N/A	2.0T	1T05T2GA14F		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F18	8.9
		RM	N/A	2.0T	1T05T2GA14FHRM		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (NO)	21101F18	8.9
		NEW	N/A	2.0T	1T05T2GA14F		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F19	8.8
		RM	N/A	2.0T	1T05T2GA14FHRM		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (NO PASS) + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101F19	8.8
		NEW	N/A	2.0T	1T05T2GA14F		1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FJ3	8.9
		RM	N/A	2.0T	1T05T2GA14FHRM		1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (NO)	21101FJ3	8.9
		NEW	N/A	2.0T	1T05T2GA14F	1T05T2GA14F	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FJ4	8.8	
		RM	N/A	2.0T	1T05T2GA14FHRM	1T05T2GA14FHRM	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT (PASS) + Audible Noise (YES) + Contact Techline + Replace Engine + New ECM S/W Available (YES) + ECM Update	21101FJ4	8.8	
		N/A	N/A	N/A	N/A	Not Specified	N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures	21101F12	0.5
		N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (NO) + Oil Check (NO) + Follow Standard Procedures + ECM Update (Serv Camp 953)	21101F13	0.4
		N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline	21101F11	0.8
		N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	Crank Rotation (YES) + BCT Pass (YES) + Audible Noise (YES) + Contact Techline + ECM Update (Serv Camp 953)	21101F12	0.7