



Technical Service Bulletin

GROUP ENGINE	NUMBER 22-EM-008H
DATE MAY 2022	MODEL ELANTRA (AD) KONA (OS) VELOSTER (JS)

SUBJECT:**DTC P1327 ENGINE REPLACEMENT**

Description: Hyundai is conducting a service campaign 974 to enhance the knock sensor logic with the Cylinder Noise Diagnostic System (CNDS) software update. CNDS is to detect abnormal cylinder wall scuffing or noise of the engine block before potentially severe engine damage occurs. If abnormal noise is detected, the Malfunction Indicator Lamp (MIL) will blink continuously. In addition, DTC P1327 will be recorded in the ECM.

Follow the procedure outlined in this bulletin to inspect the vehicle and replace the engine if a DTC P1327 condition exists. For engine replacement, please ensure to follow standard HMA warranty policy and use a new engine long block if vehicle is within ("5/60") and a Reman when beyond 5/60 (if available).

APPLICABLE VEHICLES:

- Certain 2019-20MY Elantra (AD*) vehicles with 2.0L Nu engines produced through 7/6/2020
 - *Elantra (AD) vehicles have VINs starting with "KMH".
- Certain 2019-21MY Kona (OS) vehicles with 2.0L Nu engines produced through 9/1/2020
- Certain 2019-21MY Veloster (JS**) vehicles with 2.0L Nu engines produced through 5/27/2020
 - **Veloster N (JSN) vehicles are not included.

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL P/N	NATURE CODE	CAUSE CODE
19-20MY Elantra (AD)	20D017A1	ENGINE REPLACEMENT (NEW)	6.4 M/H	21101-113ZRQQHRM	I3T	ZZ1
	20D017A2	ENGINE REPLACEMENT (REMAN)	6.4 M/H			
19-21MY Veloster (JS)	20D017B1	ENGINE REPLACEMENT (NEW)	6.6 M/H			
	20D017B2	ENGINE REPLACEMENT (REMAN)	6.6 M/H			
19-21MY Kona (OS)	20D017C1	ENGINE REPLACEMENT (NEW)	6.5 M/H (2WD)			
	20D017C2	ENGINE REPLACEMENT (NEW)	6.7 M/H (4WD)			
	20D017C3	ENGINE REPLACEMENT (REMAN)	6.5 M/H (2WD)			
	20D017C4	ENGINE REPLACEMENT (REMAN)	6.7 M/H (4WD)			

NOTE 1: Submit claim on Campaign Claim Entry Screen

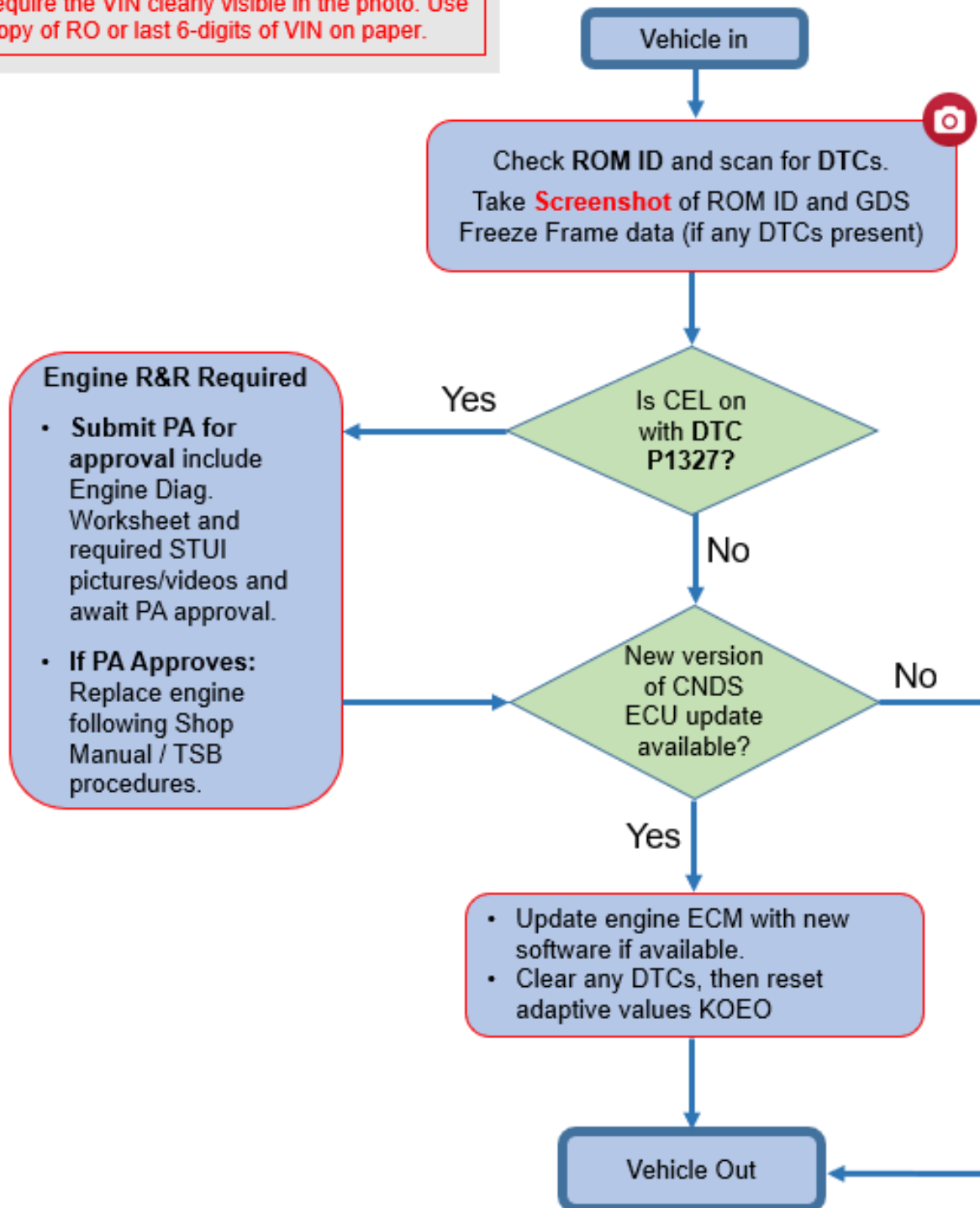
NOTE 2: If CNDS software update and/or any other ECU software update(s) are necessary, please refer to respective TSB(s) for reimbursement.

NOTE 3: If a part that is not covered by this TSB is found in need of replacement while performing the repair for this TSB, and the affected part is still under warranty, please submit a separate claim using the same Repair Order. If the affected part is out of warranty, submit a prior approval request for goodwill consideration prior to performing the work.

Service Procedure Flowchart:

Service Process: DTC P1327

NOTE: Icon indicates photos/videos required for PA review. Any STUI pictures require the VIN clearly visible in the photo. Use copy of RO or last 6-digits of VIN on paper.



Parts Information:

VEHICLE	TM TYPE	REMAN ENGINE LONG BLOCK P/N	NEW ENGINE LONG BLOCK P/N	NOTE
19MY Elantra (AD) 19-21MY Veloster (JS)	MT	21101-112ZRQQHRM	21101-112ZRQQH	*** Replace engine only if DTC P1327 condition exists. ***
19MY Elantra (AD) 19-21MY Kona (OS) 19-21MY Veloster (JS)	AT	21101-113ZRQQHRM	21101-113ZRQQH	
20MY (AD) Elantra	MT	21101-114ZRQQHRM	21101-114ZRQQH	
20MY (AD) Elantra	CVT	21101-115ZRQQHRM	21101-115ZRQQH	

- For engine replacement, please ensure to follow standard HMA warranty policy and use a new engine long block if vehicle is within ("5/60") and a Reman when beyond 5/60 (if available).

PART NAME	FIGURE / PART NUMBER	NOTE
Engine Service Kit	 21102-N20AKQQH	(For use with above engine long blocks)
*** Includes Contents Below ***		
PULLEY-DAMPER	23124-2E003 (ALT 23124-2E052)	1EA
BOLT-CRANKSHAFT PULLEY	23127-2E000	1EA
ROD ASSY-OIL LEVEL	26611-2E022	1EA
GASKET-EXMANI	28521-2E000	1EA
GASKET-INMANI	28313-2EAA0	1EA
KNOCK SENSOR	39250-2E000	1EA
BOLT-FLANGE	11403-08306K	1EA
HOSE ASSY-HEATER	25480-2E000	1EA
GASKET-EGR PIPE, A1	28491-2E920	1EA
GASKET-EGR PIPE, B	28492-2E900	1EA
O-RING WTC ASSY	25623-2E000	1EA
GASKET (FRT MUFFLER)	28751-2B300	1EA
NUT (FRT MUFFLER)	13183-12000	2EA
SWITCH ASSY-OIL PRESSURE	94750-37100	1EA

NOTES: During engine R&R, install the applicable Engine Long Block and Service Kit part numbers.

- Reuse other parts not listed under the Service Kit parts list.
- After installing the engine in the vehicle, fill the engine oil level to the top of "F" position.
 - (Engine Oil Fill Capacity: 4.5 liters with 5W20 engine oil)

Service Procedure:

NOTE: Refer to the Service Process Flowchart on Page 2 for the overview of the process.

1. Check ROM ID and scan for DTCs.

- Take screenshot of ROM ID and GDS Freeze Frame data if any DTCs are present.
- **If DTC P1327** is present and stored in the ECM, then submit PA for engine replacement.
 - Follow the published Service Information from the applicable Shop Manual to remove and replace the Engine Assembly. Shop Manual Section Location: Engine Mechanical > Engine And Transaxle Assembly > Engine And Transaxle Assembly > Repair Procedures
 - Be sure to record the audio station presets (XM, AM, FM, etc.) prior to battery disconnect.
 - Fill the engine crankcase to the full oil capacity on dipstick and fill the cooling system.
 - Start the engine to warm it up and begin the cooling system air bleeding process to top off.
 - After the engine has warmed up to normal operating temperature, turn the engine off, wait a few minutes, and then adjust the engine oil level to near the “F” mark.

2. Check for new ECM Updates.

- Update the engine ECM if new software is available.
- Clear any DTC's and then reset adaptive values with Key On Engine Off (KOEO).