



GROUP
Product Improvement

MODEL
See Model List
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NUMBER
PI1802W/X (Rev 7, 01/15/2020)

DATE
October 2018

PRODUCT IMPROVEMENT CAMPAIGN

SUBJECT:

ENGINE REPLACEMENT INSTRUCTIONS
FOR DTC P1326 (PI1802W/X)

★ NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a red line in the margin area.

This bulletin provides information related to the Technical Service Bulletin previously published in July 2018 ([PI1802](#), Rev 6, 01/15/2020) titled "Knock Sensor Detection Signal - CPU Logic Improvement". Specifically, this bulletin provides instructions on how to proceed if, after installation of the KPS, the subject vehicles hold a return to the dealer with Diagnostic Trouble Code ("DTC") P1326.

Year	Model	Engine	Production Date
2014	Optima (KMA/UMa)	2.4L GDI	1/13 – 4/25/14
2015-2018	Optima (KMA/UMa)	2.4L & 2.0L T-GDI	4/14 – 7/11/18
2014-2018	Optima (KMA/UMa)	2.4L & 2.0L T-GDI	9/13 – 4/5/18
2014-2018	Sorento (KMA/UMa)	2.0L T-GDI	1/3/14 – 3/7/18

If DTC P1326 is present, first check for wiring interference following the procedure set forth below before determining whether engine replacement is necessary. Based on the results of the Wiring Signal Interference Check, dealers are to perform either the Knock Sensor Wiring Repair or, if the engine noise inspection result confirms it, the Engine Long-Block Replacement, according to the procedures in this TSB.

If the vehicle's engine is already seized or severely knocking, dealers are to perform the Engine Long-Block Replacement **and** the Wiring Signal Interference Check according to the procedures in this TSB.

A [Vehicle Diagnosis Number \(VDN\)](#) must be created with DTC P1326, prior to performing PI1802W/X. If a VDN is not created, Warranty claim submission issues may occur.

Before conducting the procedure, verify the vehicle is included in the list of affected VINs.

★ NOTICE

To ensure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

File Under: <Product Improvement>

Circulate To: ☒ General Manager ☒ Service Manager ☒ Parts Manager
☒ Service Advisors ☒ Technicians ☒ Body Shop Manager ☐ Fleet Repair

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

WARRANTY INFORMATION (PI1802W1, MIL ON WITH P1326):

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Sor. (XMa) 2.4L	R	21020 2G010	0	(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A12R4	1.1 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A12R0	8.7 M/H	21111 2GK50QQKR	1
							21111 2GK70QQKR	1
							23311 25050	7
							(ULEV or SULEV) 21101 2GK11QQKRR	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A12R2	0.8 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A12R5	1.1 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A12R1	8.9 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							(ULEV or SULEV) 21101 2GK11QQKR	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A12R3	0.8 M/H	*91400 2T100QQK	1

***NOTE: Old part number 91400 2T000QQK has been superseded by new part number 91400 2T100QQK.**

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Opt. (QF) 2.4L	R	23060 2G400	0	(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A16R5	1.1 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A16R1	8.7 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK06QQKR	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A16R3	0.8 M/H	*91400 2T100QQK	1
Opt. (QF) 2.0L T	R	23060 2G400	0	(PI1802W1) 2.0L T-GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A16R4	1.1 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.0L T-GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A16R0	8.9 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK08QQKR	1
				(PI1802W1) 2.0L T-GDI MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A16R2	0.8 M/H	*91400 2T100QQK	1
Opt. (TF) 2.4L	R	23060 2G400	0	(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180111RK	1.1 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180111R0	8.7 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK06QQKR	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180111R5	0.8 M/H	*91400 2T100QQK	1

***NOTE: Old part number 91400 2T00QQK has been superseded by new part number 91400 2T100QQK.**

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Spo. (SL) 2.4L	R	23060 2G400	0	(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180112RK	1.2 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180112R0	8.0 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK36QQKR	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180112R5	0.9 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180112RM	1.2 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180112R2	8.4 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK36QQKR	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180112R7	0.9 M/H	*91400 2T100QQK	1

*NOTE: Old part number 91400 2T000QQK has been superseded by new part number 91400 2T100QQK.

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Spo. (SL) 2.0L T	R	23060 2G400	0	(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180112RN	1.2 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180112R3	8.0 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK37QQKR	1
				(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180112R8	0.9 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180112RO	1.2 M/H	*91400 2T100QQK	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180112R4	8.4 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK37QQKR	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180112R9	0.9 M/H	*91400 2T100QQK	1

***NOTE: Old part number 91400 2T000QQK has been superseded by new part number 91400 2T100QQK.**

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Sor. (UMa) 2.4L	R	23060 2G401	0	(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A32RJ	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A32R0	8.7 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							(16-17MY) 21101 2GK31QQKR	1
							(18MY) 21101 2GK33QQKR	
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A32R4	0.8 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A32RK	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A32R1	9.0 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							(16-17MY) 21101 2GK31QQKR	1
							(18MY) 21101 2GK33QQKR	
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A32R5	0.8 M/H	91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Sor. (UMa) 2.0L T	R	23060 2G401	0	(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A32RL	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A32R2	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A32R6	0.8 M/H	91400 2T010QQK	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A32RM	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A32R3	9.0 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A32R7	0.8 M/H	91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Spo. (QL) 2.4L	R	23060 2G401	0	(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180114RK	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180114R0	8.7 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK35QQKR	1
				(PI1802W1) 2.4L GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180114R5	0.8 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180114RM	1.1 M/H	91400 2T010QQK	1
							21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK35QQKR	1
				(PI1802W1) 2.4L GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180114R7	0.8 M/H	91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Spo. (QL) 2.0L T	R	23060 2G401	0	(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180114RN	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180114R3	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK39QQKR	1
				(PI1802W1) 2.0L T-GDI 2WD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180114R8	0.8 M/H	91400 2T010QQK	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180114RO	1.1 M/H	91400 2T010QQK	1
							21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK39QQKR	1
				(PI1802W1) 2.0L T-GDI AWD MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180114R9	0.8 M/H	91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Opt. (JF) 2.4L	R	23060 2G401	0	(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180113RK	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180113R0	8.7 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK34QQKR	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180113R5	0.8 M/H	91400 2T010QQK	1
Opt. (JFa) 2.4L	R	23060 2G401	0	(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A33R4	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A33R0	8.7 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK34QQKR	1
				(PI1802W1) 2.4L GDI MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A33R2	0.8 M/H	91400 2T010QQK	1
Opt. (JFa) 2.0L T	R	23060 2G401	0	(PI1802W1) 2.0L T-GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Pass, & KSDS Extension Harness Install	180A33R5	1.1 M/H	91400 2T010QQK	1
				(PI1802W1) 2.0L T-GDI MIL ON with P1326, KSDS Wire Harness Inspection Pass, Engine Noise Inspection Fail, & Engine Replacement	180A33R1	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(PI1802W1) 2.0L T-GDI MIL ON with P1326, KSDS Wire Harness Inspection Fail, KSDS Extension Harness Install	180A33R3	0.8 M/H	91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

WARRANTY INFORMATION (PI1802X1, ENGINE SEIZED/SEVERE KNOCKING):

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Sor. (XMa) 2.4L	R	21020 2G010	0	(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A12R8	8.4 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							(ULEV or SULEV) 21101 2GK11QQKR	1
				(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A12RA	8.9 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							(ULEV or SULEV) 21101 2GK11QQKR	1
							*91400 2T100QQK	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A12R9	8.6 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							(ULEV or SULEV) 21101 2GK11QQKR	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A12RB	9.1 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							(ULEV or SULEV) 21101 2GK11QQKR	1
							*91400 2T100QQK	1

***NOTE: Old part number 91400 2T000QQK has been superseded by new part number 91400 2T100QQK.**

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (P1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Opt. (QF) 2.4L	R	23060 2G400	0	(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A16R9	8.4 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK06QQKR	1
				(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A16RB	8.9 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK06QQKR	1
							*91400 2T100QQK	1
Opt. (QF) 2.0L T	R	23060 2G400	0	(P1802X1) 2.0L T-GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A16R8	8.7 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK08QQKR	1
				(P1802X1) 2.0L T-GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A16RA	9.2 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK08QQKR	1
							*91400 2T100QQK	1
Opt. (TF) 2.4L	R	23060 2G400	0	(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180111RA	8.4 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK06QQKR	1
				(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180111RF	8.9 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK06QQKR	1
							*91400 2T100QQK	1

***NOTE: Part number 91400 2T000QQK has been superseded by a new part number 91400 2T100QQK.**

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Spo. (SL) 2.4L	R	23060 2G400	0	(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180112RA	7.7 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK36QQKR	1
				(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180112RF	8.3 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK36QQKR	1
							*91400 2T100QQK	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180112RC	8.1 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK36QQKR	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180112RH	8.7 M/H	21111 2GK50QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK36QQKR	1
							*91400 2T100QQK	1
Spo. (SL) 2.0L T	R	23060 2G400	0	(PI1802X1) 2.0L T-GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180112RD	7.7 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK37QQKR	1
				(PI1802X1) 2.0L T-GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180112RI	8.3 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK37QQKR	1
							*91400 2T100QQK	1
				(PI1802X1) 2.0L T-GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180112RE	8.1 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK37QQKR	1
				(PI1802X1) 2.0L T-GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180112RJ	8.7 M/H	21111 2GK60QQK	1
							21111 2GK70QQK	1
							23311 25050	7
							21101 2GK37QQKR	1
							*91400 2T100QQK	1

***NOTE: Old part number 91400 2T000QQK has been superseded by new part number 91400 2T100QQK.**

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Sor. (UMa) 2.4L	R	23060 2G401	0	(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A32RA	8.4 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							(16-17MY) 21101 2GK31QQKR	1
							(18MY) 21101 2GK33QQKR	
				(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A32RB	8.9 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							(16-17MY) 21101 2GK31QQKR	1
							(18MY) 21101 2GK33QQKR	
							91400 2T010QQK	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A32RE	8.7 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							(16-17MY) 21101 2GK31QQKR	1
							(18MY) 21101 2GK33QQKR	
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A32RF	9.2 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							(16-17MY) 21101 2GK31QQKR	1
							(18MY) 21101 2GK33QQKR	
							91400 2T010QQK	1
Sor. (UMa) 2.0L T	R	23060 2G401	0	(PI1802X1) 2.0L T-GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A32RC	8.4 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(PI1802X1) 2.0L T-GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A32RD	8.9 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
							91400 2T010QQK	1
				(PI1802X1) 2.0L T-GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A32RG	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(PI1802X1) 2.0L T-GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A32RH	9.2 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
							91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (PI1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Spo. (QL) 2.4L	R	23060 2G401	0	(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180114RA	8.4 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK35QQKR	1
				(PI1802X1) 2.4L GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180114RF	8.9 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK35QQKR	1
							91400 2T010QQK	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180114RC	8.7 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK35QQKR	1
				(PI1802X1) 2.4L GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180114RH	9.2 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK35QQKR	1
							91400 2T010QQK	1
Spo. (QL) 2.0L T	R	23060 2G401	0	(PI1802X1) 2.0L T-GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180114RD	8.4 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK39QQKR	1
				(PI1802X1) 2.0L T-GDI 2WD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180114RI	8.9 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK39QQKR	1
							91400 2T010QQK	1
				(PI1802X1) 2.0L T-GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180114RE	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK39QQKR	1
				(PI1802X1) 2.0L T-GDI AWD Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180114RJ	9.2 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK39QQKR	1
							91400 2T010QQK	1

SUBJECT: ENGINE REPLACEMENT INSTRUCTIONS FOR DTC P1326 (P1802W/X)

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Opt. (JF) 2.4L	R	23060 2G401	0	(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180113RA	8.4 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK34QQKR	1
				(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180113RF	8.9 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK34QQKR	1
Opt. (JFa) 2.4L	R	23060 2G401	0	(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A33RA	8.4 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK34QQKR	1
				(P1802X1) 2.4L GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A33RB	8.9 M/H	21111 2GK51QQK	1
							21111 2GK71QQK	1
							23311 25050	7
							21101 2GK34QQKR	1
Opt. (JFa) 2.0L T	R	23060 2G401	0	(P1802X1) 2.0L T-GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A33RC	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(P1802X1) 2.0L T-GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A33RD	9.2 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
Opt. (JFa) 2.0L T	R	23060 2G401	0	(P1802X1) 2.0L T-GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Pass	180A33RC	8.7 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1
				(P1802X1) 2.0L T-GDI Engine Seized / Severe Knocking, Techline Authorized Engine Replacement, KSDS Wire Harness Inspection Fail, KSDS Wire Harness Install	180A33RD	9.2 M/H	21111 2GK52QQK	1
							21111 2GK72QQK	1
							23311 25050	7
							21101 2GK32QQKR	1

NOTE: Refer to [Warranty Bulletin 2018-10](#) for details regarding coolant and substitute transportation reimbursement requirements.

Old part number 91400 2T000QQK has been superseded by **new** part number 91400 2T100QQK. See [Parts Bulletin 91-914 0003](#) for details.

Use sublet code 'X3' with a maximum allowed amount of \$19.80 for "**ENGINE R&R**" engine oil reimbursement.

If the replacement of the Oil Cooler Tube Assembly was required, please manually enter the applicable Oil Cooler Tube Assembly part number to the claim's related parts section.

Dispose of old parts in accordance with local, state, and Federal regulations.

ALL claims for engine or harness replacement without the required diagnostic inspection/results or authorization are subject to claim chargeback/denial without exception.

★ NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **P1802W/X*** when accessing the WebDCS system.