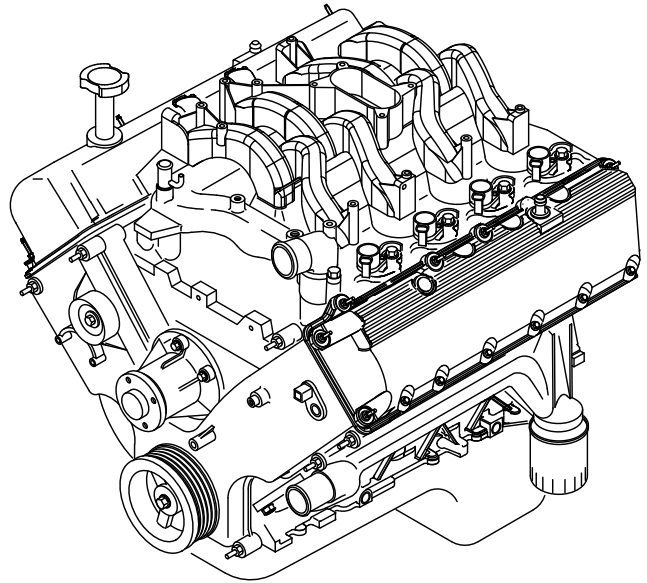


0F1960APMNL

GENERAC®



5.4 LITER
G A S

Ford (G3)

***ENGINE
PARTS
MANUAL***

For engines used in units beginning with
Serial Number 5874491 and ending with
Serial Number 6464715

5.4L Gas Engine Table of Contents

QUICK REFERENCE GUIDE	1
SERVICE ENGINES	2
CYLINDER BLOCK	4
CYLINDER HEAD	6
TIMING COVER.....	8
PISTONS, RODS, AND CRANK.....	10
TIMING GEARS.....	12
CAMSHAFT	14
ROCKER COVER	15
OIL PUMP	16
OIL PAN & LEVEL INDICATOR	17
CRANKCASE VENTILATION	18
OIL FILTER	19
WATER PUMP	20
THERMOSTAT	21
INTAKE MANIFOLD	22
EXHAUST MANIFOLDS	23
IGNITION SYSTEM	24

LEGEND

“AR” AS REQUIRED
“STD” STANDARD SIZE
“O.S.” OVERSIZE
“U.S.” UNDERSIZE
“NA” NOT AVAILABLE

NOTICE!

The information in this manual is known to be accurate as of the date of release shown on the cover. However, engineering changes can occur without notice. To obtain the proper parts, please be sure to use the serial number of the unit being serviced when ordering from this manual. Always to refer to any parts notes and changes before ordering. All other parts not shown in this manual can be found on Generac’s exploded view drawings online and / or in the original copy of the owner’s manual provided with the unit. Any additional copies of the owner’s manual can be found online at www.generac.com.

5.4L Gas Engine Quick Reference Guide

ENGINE SIZE:	5.4 Liter	FUEL:	LP/NG	MAKE:	Ford (G3)	ENGINE P/N:	0F1960A (raw)	0H5610 (make) 80kW 0H5610A (make) 55kW
--------------	-----------	-------	-------	-------	-----------	-------------	---------------	---

QUICK REFERENCE ENGINE PARTS

Description	Part Number	Special Notes
Scheduled Maintenance Kit	0H712700SM	Air Filter, Spark Plugs (8), Oil Filter
Oil Filter	0D5419	Oil capacity - See owner's manual
Air Cleaner Element	0F5419	
V-Belt		See owner's manual
Thermostat	0F2844	Coolant capacity - See owner's manual
Thermostat O-ring	0F2843	
Starter Motor	0G7461	
Spark Plug	0F1960A173	Spark plug gap, see owner's manual
Intake Manifold R&R Kit	0H88660SRV	

ENGINE IDENTIFICATION

The engine identification tag can be located on the left side valve cover facing the flywheel end of the generator



LEFT VALVE COVER

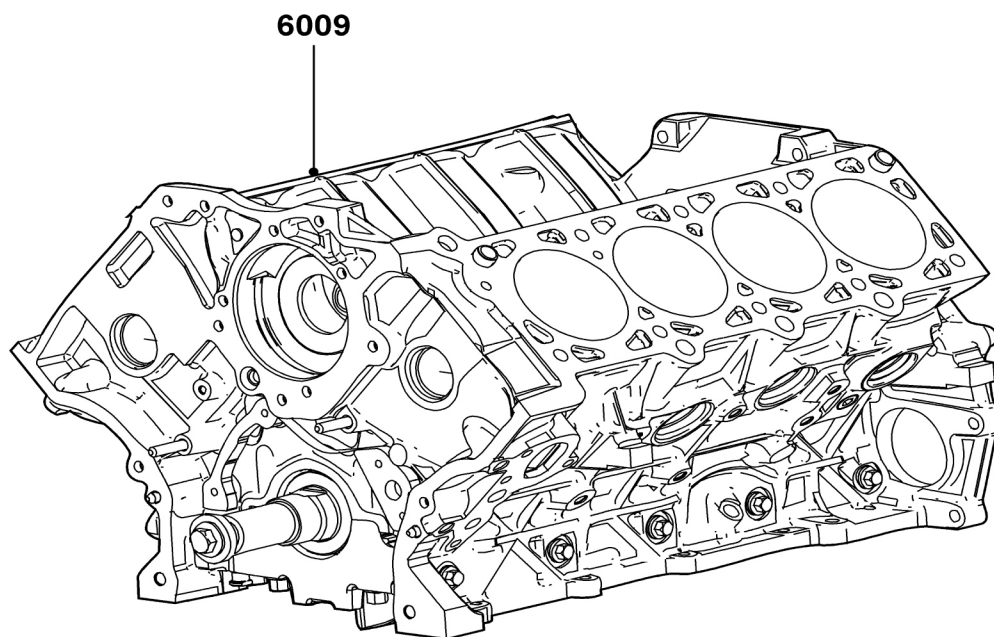
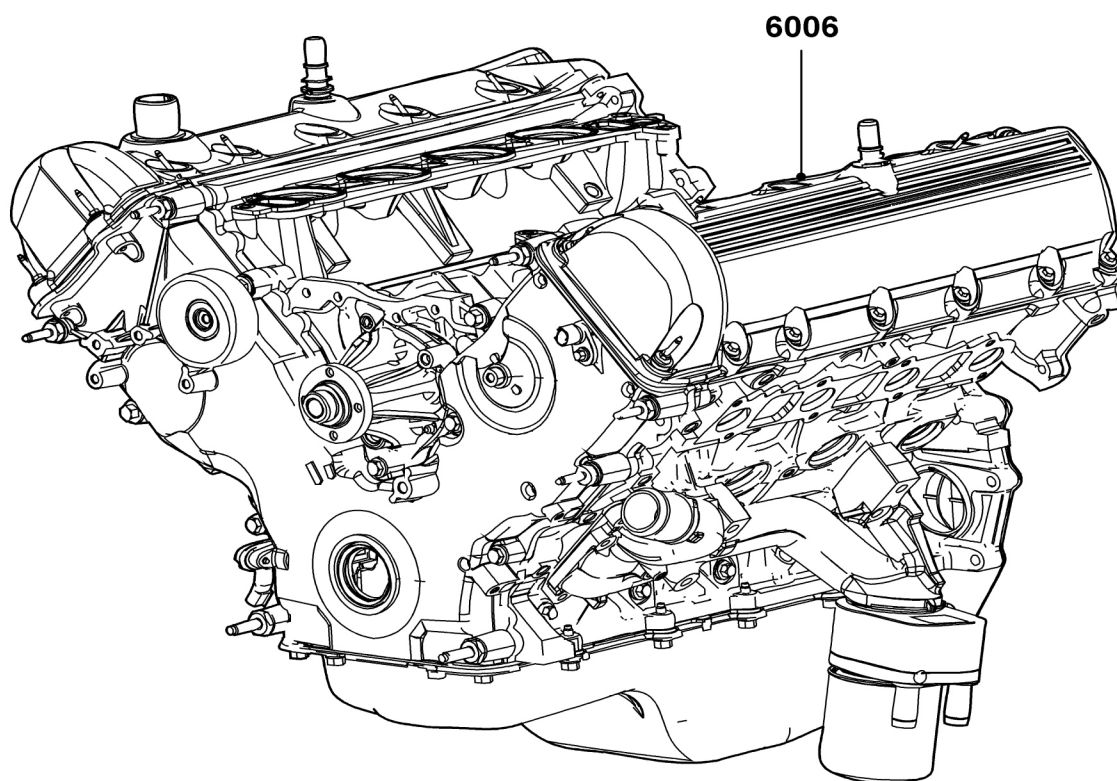
SECONDARY ENGINE PART NUMBER



ENGINE SERIAL NUMBER

5.4L Gas Engine Service Engines

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



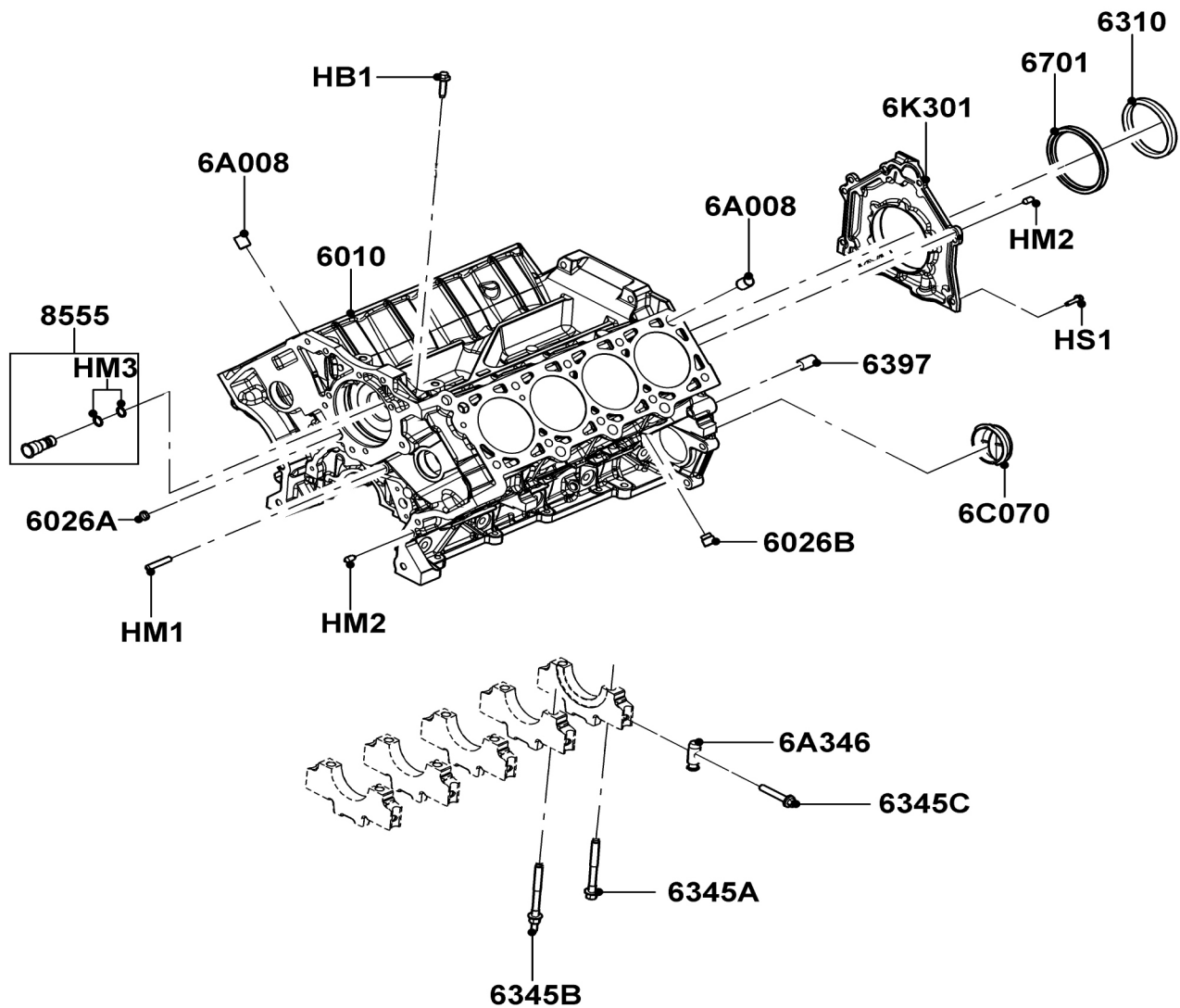
5.4L Gas Engine Service Engines

ITEM	PART NO.	DESCRIPTION	QTY
6006	0F1960A158	LONG BLOCK	A/R
6009	0F1960A114	SHORT BLOCK ASSY.	A/R

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

5.4L Gas Engine Cylinder Block

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



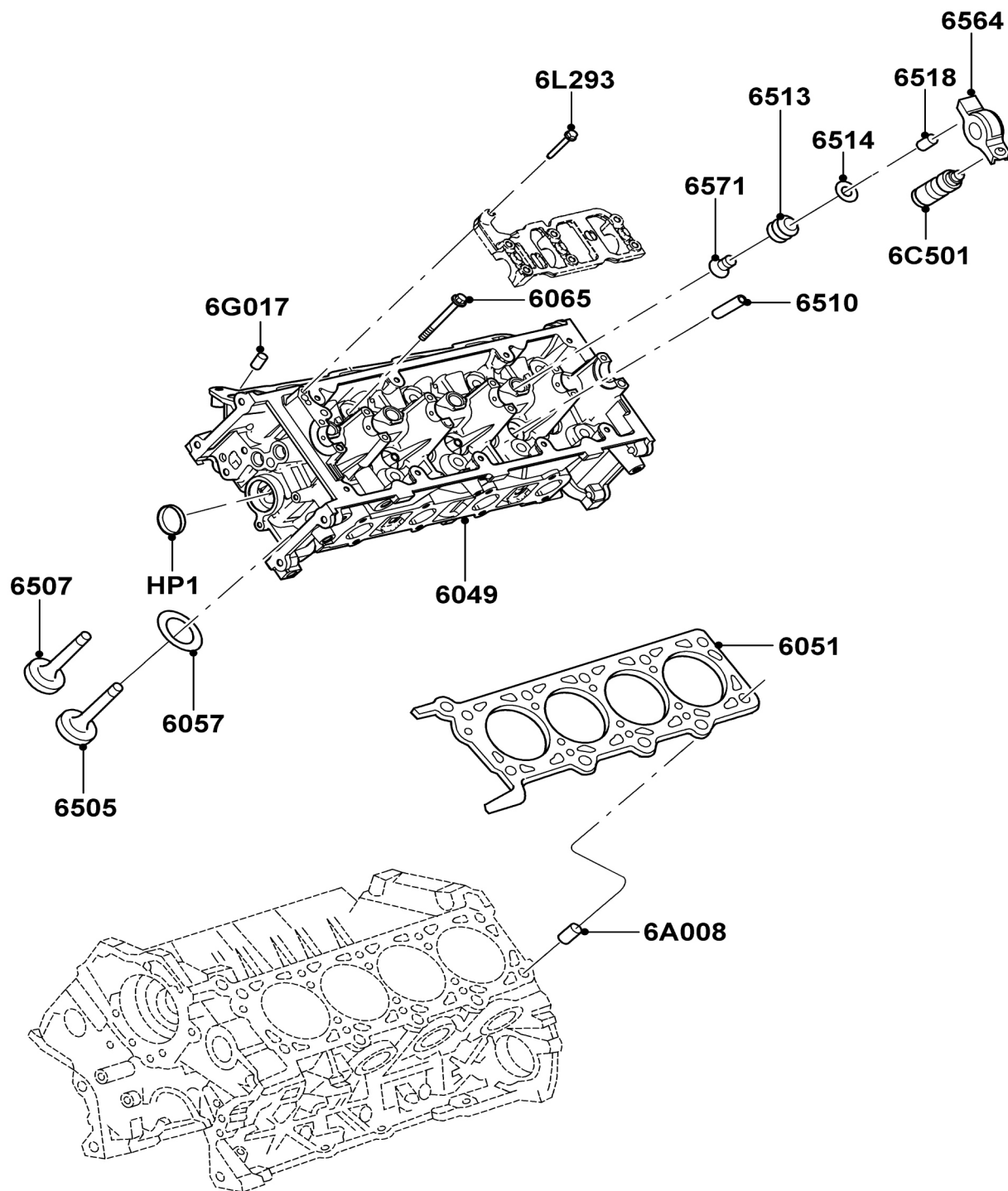
5.4L Gas Engine Cylinder Block

ITEM	PART NO.	DESCRIPTION	QTY
6A008	0D34540108	DOWEL, CYLNDR HEAD TO BLOCK.	4
6010	0F19600110	BLOCK, BARE CYLINDER	1
6026	0D34540102	PLUG, CUP TYPE, FRT&RR BLOCK, 13.84MM	2
6C070	0F19600112	COVER, INSPECTION OPENING	1
6K301	0F73160148	RETAINER, RR CRNKSHFT OIL SEAL	1
6345A	0F19600111	BOLT, M10X94.5	9
6345C	0D34540144	BOLT, M9X53.5 SIDE BOLTS	10
6345B	0F19600113	STUD, M8XM10X126	1
6A346	0D34540145	DOWEL, BEARING CAP	A/R
6397	0D34540125	DOWEL, BLOCK TO TRANS.	2
8555	0D34540236	TUBE, HEATER HOSE	1
NOT SHOWN	0F7316C112	PLUG, 3/8"-18, SOCKET HEX PILOT	2
HM1	0F73160109	PIN, 8.0X45.5 DOWEL	2
HB1	0F1960A188	SCREW	A/R
HM2	0F97650111	DOWEL PIN, RR/CRANK SEAL RETAINER	2
HS1	0F73160111	BOLT, RR/CRANK SEAL RET. M8X1.0X27.5	6
HM3	0F73160108	O-RING, 12.42X1.48 OPAQUE ORANGE	A/R
NOT SHOWN	0F1960A185	BOLT, BEARING CAP, M6X1.0X27.5	A/R
6701	0F8286F152	SEAL, CRANKSHAFT, REAR OIL	1
6310	0F19600146	OIL SLINGER, REAR CRANKSHAFT	1

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

5.4L Gas Engine Cylinder Head

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



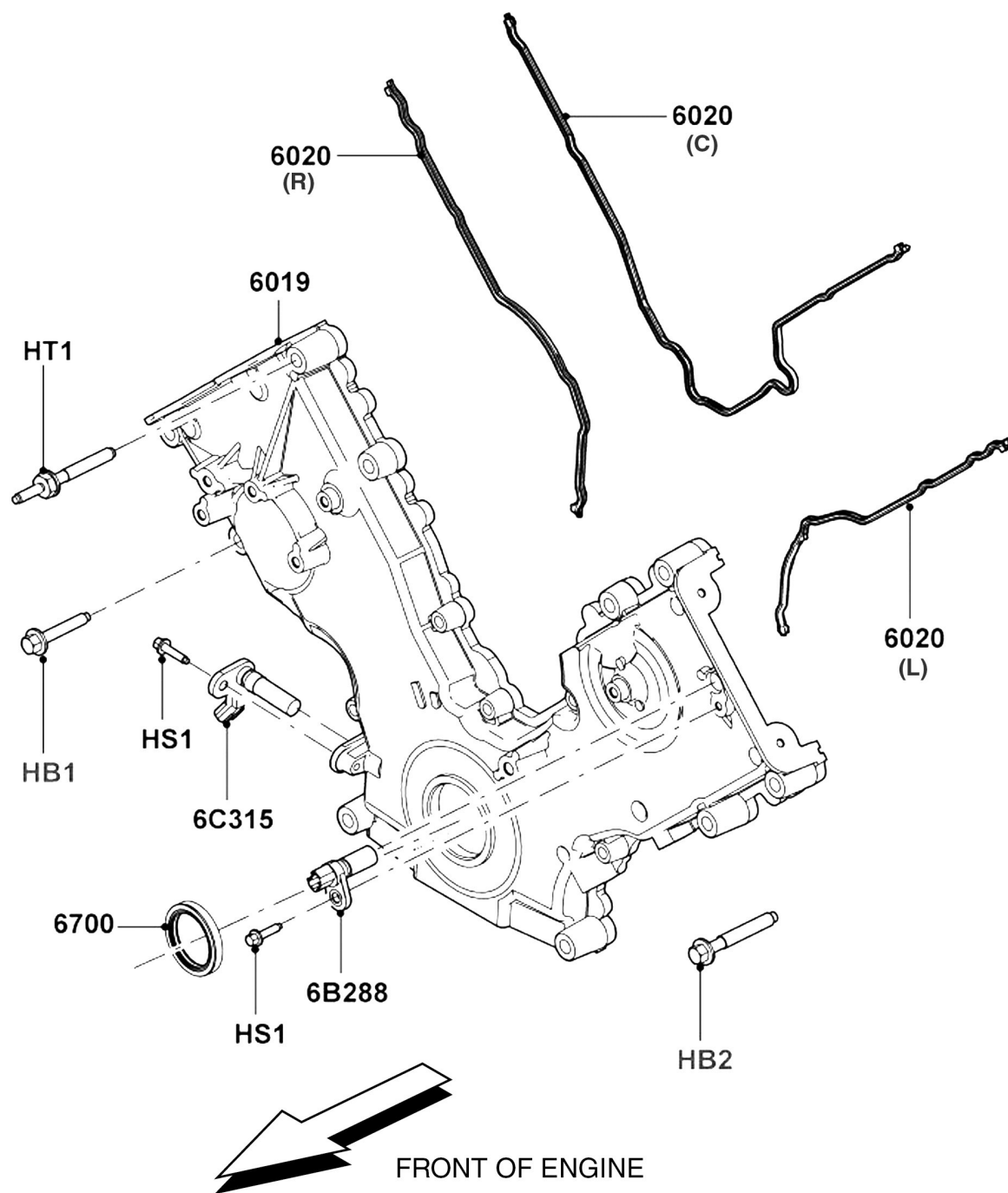
5.4L Gas Engine Cylinder Head

ITEM	PART NO.	DESCRIPTION	QTY
6A008	0D34540108	DOWEL, CYLNDR HEAD TO BLOCK	4
6G017	0F7316C139	INSERT, CYNDR HEAD	1
HP1	0F97650114	PLUG, 3/8" 18NPTF 3/8"X18MM PIPE	A/R
6049	0F1960A161	CYLINDER HEAD (BARE)	1
6049	0F1960A159	CYLNR HEAD-RH-W/VALVES & CAM	1
6049	0F1960A160	CYLNR HEAD-LH-W/VALVES & CAM	1
6051	0F7316C141	GASKET, HEAD, RH	A/R
6051	0F7316C142	GASKET, HEAD, LH	A/R
6057	0F1960A196	SEAT, VALVE-INTAKE	8
6057	0F1960A197	SEAT, VALVE-EXHAUST	8
6065	0F1960A171	BOLT, CYLNDR HEAD TO BLOCK	20
6C501	0D34540177	ADJUSTER, LASH	16
6505	0F1960A145	VALVE, EXHAUST	8
6507	0F19600127	VALVE, INTAKE	8
6510	0F7316C143	GUIDE, VALVE STEM	16
6513	0D34540181	SPRING, VALVE	16
6514	0D34540182	RETAINER, VALVE SPRING	16
6518	0D34540183	KEY, VALVE SPRING RETAINER	16
6564	0D34540184	ARM, ROCKER	16
6571	0F19600130	SEAL, VALVE STEM	A/R
6L293	0F1960A186	BOLT, BEARING CAP, M6X42 MM	13

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

5.4L Gas Engine Timing Cover

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



5.4L Gas Engine Timing Cover

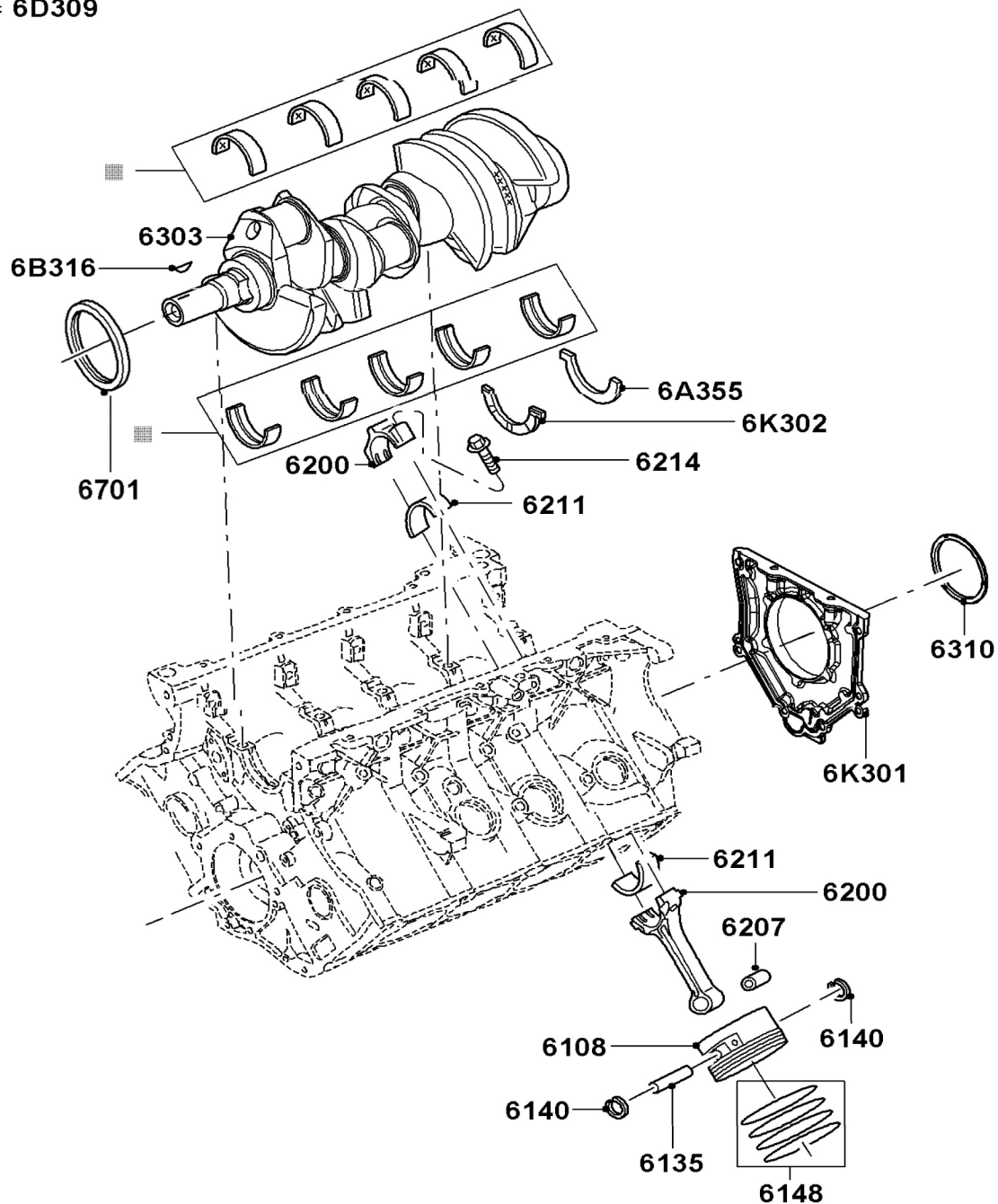
ITEM	PART NO.	DESCRIPTION	QTY
6019	0F19600235	COVER & GASKET, FRONT	1
6020	0D34540206	GASKET, FRONT COVER, LH	1
6020	0D34540207	GASKET, FRONT COVER, CENTER	1
6020	0D34540208	GASKET, FRONT COVER, RH	1
6B288	0F7316C118	SENSOR, CAM	1
6C315	0F73160110	SENSOR, CRANK	1
6700	0F19600133	SEAL, TIMING COVER	1
HB1	0F19600134	SCREW/WASHER- FRT/CVR M10X1.5X103.1	3
HB2	0F73160125	BOLT, FRNT CVR, M8X1.25X53 0D34540222	A/R
HS1	0F73160111	BOLT, CAM & CRANK SENSORS TO T/C,M6X1.0X27.5	2
HT1	0F19600236	STD/WSHR, FRNT-CVR, M10X1.5/M8X1.25X106.7	5

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

5.4L Gas Engine Pistons, Rods, And Crank

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

▨ = 6D309



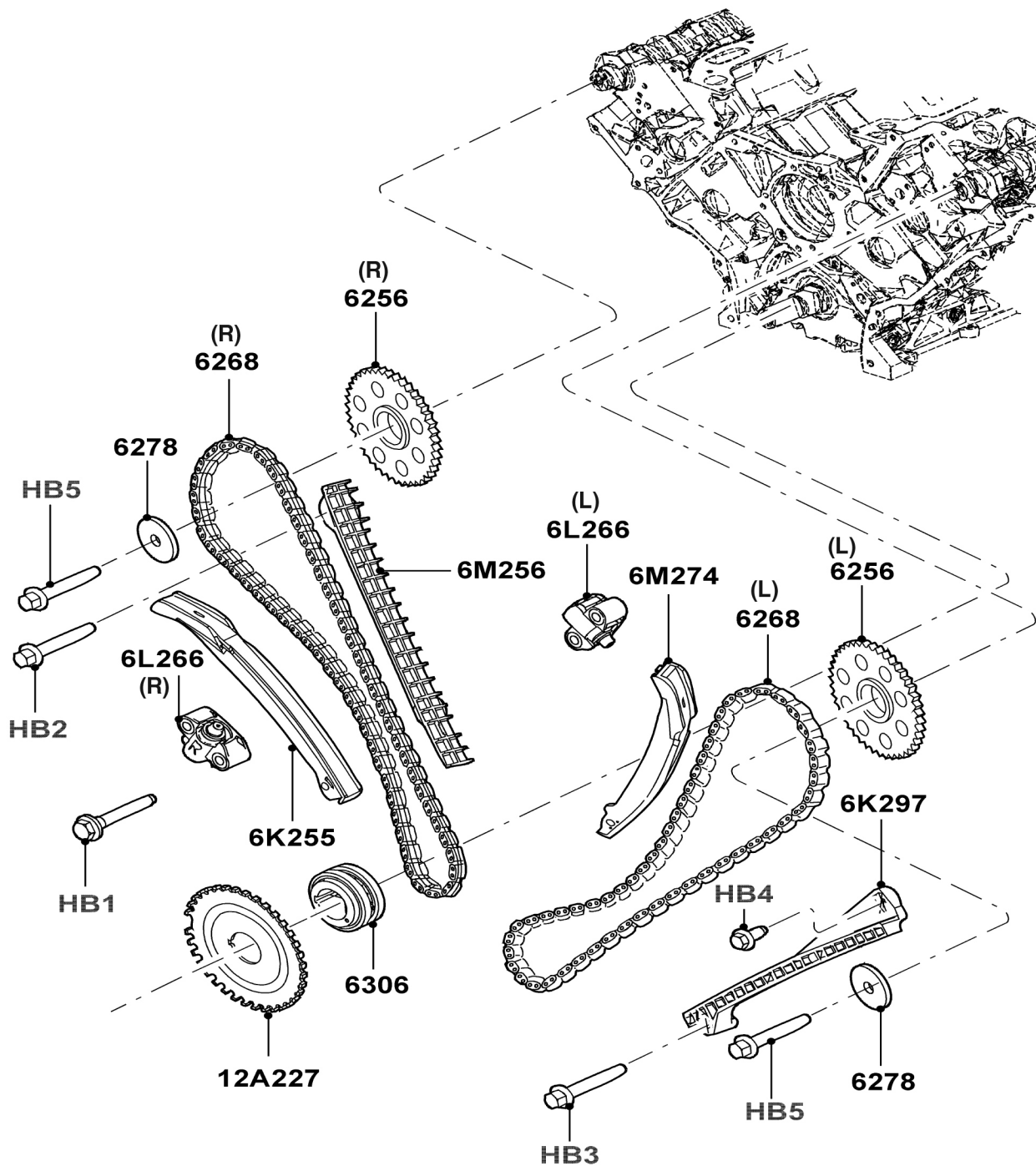
5.4L Gas Engine Pistons, Rods, And Crank

ITEM	PART NO.	DESCRIPTION	QTY
6108	0F1960A115	PISTON, STD GRADE 2	8
6108	0F19600136	PISTON, STD GRADE 3	8
6135	0F19600137	PIN, PISTON	8
6140	0D34540113	RETAINER, PISTON PIN	16
6148	0F19600138	RINGSET, STD	4
6148	0F1960A143	RINGSET, .010"/.25MM OVER SIZE	A/R
6148	0F1960A144	RINGSET, .020"/.50 MM OVER SIZE	A/R
6200	0F1960A153	ROD ASSY, CONNECTING	8
6207	0F7316C125	BUSHING, PIN	8
6211	0F73160117	BEARING, ROD STD.	16
6211	0F1960A141	BEARING, ROD, .020"/.50MM, UNDER SIZE	A/R
6214	0D34540120	BOLT, ROD	16
6K301	0F73160148	RETAINER, REAR OIL SEAL--LESS SEAL	1
6K302	0F1960A155	BEARING, THRUST, LOWER	2
6303	0F1960A177	CRANKSHAFT	1
6306	0F73160130	GEAR, CRANK TIMING (NOT SHOWN)	1
6D309	0F19600141	BEARING, MAIN, STD.GRD.1, POS.#1	A/R
6D309	0F1960A118	BRNG,MAIN, STD.GRD.2, POS#1	A/R
6D309	0F1960A119	BRNG,MAIN, STD.GRD.3, POS#1	A/R
6D309	0F19600142	BRNG, MAIN STD. GRD1, POS#2,3,4,& 5	A/R
6D309	0F1960A120	BRNG, MAIN STD. GRD2, POS#2,3,4,& 5	A/R
6D309	0F1960A121	BRNG, MAIN STD, GRD3, POS#2,3,4, & 5	A/R
6D309	0F1960A122	BRNG, MAIN, .010"OR 25MM UNDER SIZE, GRD1, POS#1	A/R
6D309	0F1960A123	BRNG, MAIN, .010"OR 25MM UNDER SIZE, GRD2, POS#1	A/R
6D309	0F1960A124	BRNG, MAIN, .010"OR 25MM, UNDR SZ. GRD.3, POS#1	A/R
6D309	0F1960A125	BRNG, MAIN, .010 OR 25MM, UNDR SZ, GRD 1, POS#2,3,4,&5	A/R
6D309	0F1960A126	BRNG, MAIN,.010 OR 25MM,UNDR/SZ, GRD 2, POS#2,3,4,&5	A/R
6D309	0F1960A127	BRNG, MAIN,.010 OR 25MM,UNDR/SZ, GRD.3, POS#2,3,4,&5	A/R
6B316	0F73160147	KEY, CRANKSHAFT, 3/16"X1.40" WOODRUFF	1
6A355	0F1960A116	THRUST WASHER KIT	1
6310	0F19600146	OIL SLINGER, REAR CRANKSHAFT	1
6701	0F8286F152	SEAL, CRANKSHAFT, REAR OIL	1

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

5.4L Gas Engine Timing Gears

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



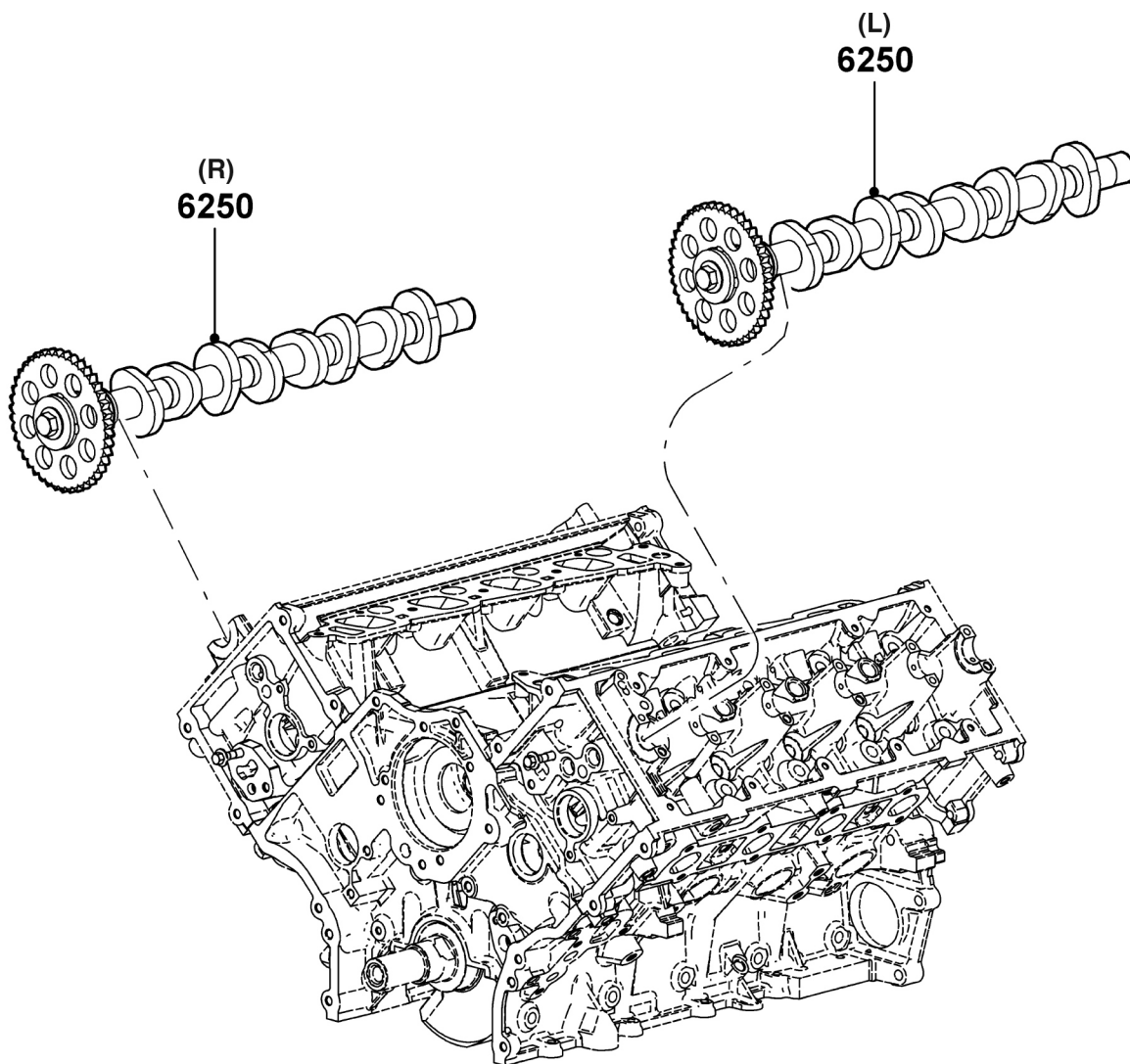
5.4L Gas Engine Timing Gears

ITEM	PART NO.	DESCRIPTION	QTY
6K255	0D34540209	ARM, TIMING CHAIN TENSIONER, RH	1
6256	0D34540190	GEAR, CAM, RH	1
6256	0F7316C136	GEAR, CAM, LH	1
6M256	0F19600147	GUIDE, TIMING CHAIN, RH	1
6L266	0F19600148	TENSIONER, TIMING CHAIN, LH	1
6L266	0F19600149	TENSIONER, TIMING CHAIN,RH	1
6268	0F19600150	CHAIN, TIMING	2
6M274	0D34540214	ARM, TIMING CHAIN TENSIONER,LH	1
6278	0D34540193	SPACER, CAM GEAR	4
6K297	0F19600152	GUIDE, TIMING CHAIN, LH	1
6306	0F73160130	SPROCKET, CRANK	1
12A227	0F7316C130	RING, CRANKSHAFT TRIGGER	1
HB1	0D34540221	BOLT, M8X1.25X53MM	A/R
HB3	0D34540220	BOLT, TIMING CHAIN GUIDE, M6X1.0X67.5	1
HB2	0F1960A184	BOLT, M6X31.5MM	A/R
HB4	0G49690317	BOLT, M6X1.0X22.5MM	1
HB5	0F1960A193	CAMSHAFT BOLT	2

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

5.4L Gas Engine Camshaft

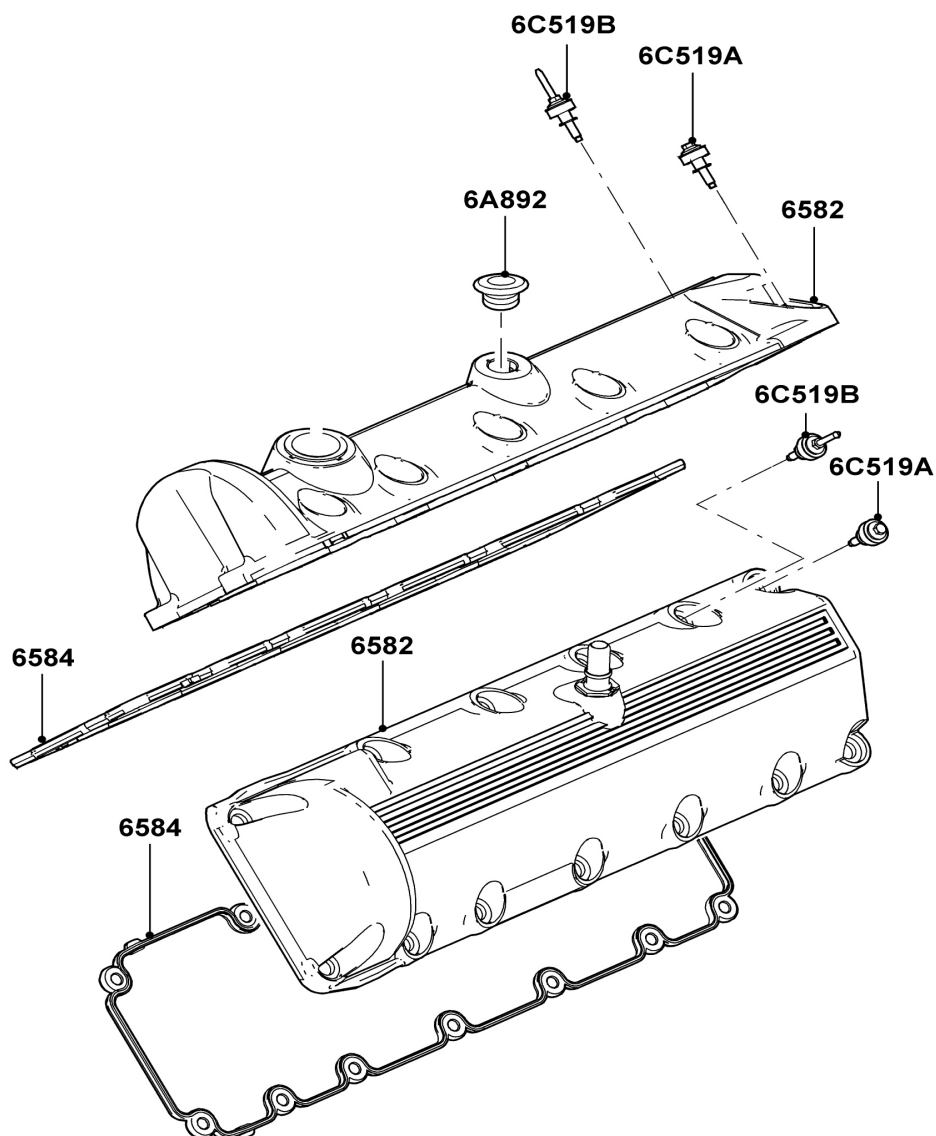
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
6250	0F1960A137	CAMSHAFT, RH	1
6250	0F1960A162	CAMSHAFT, LH	1

5.4L Gas Engine Rocker Cover

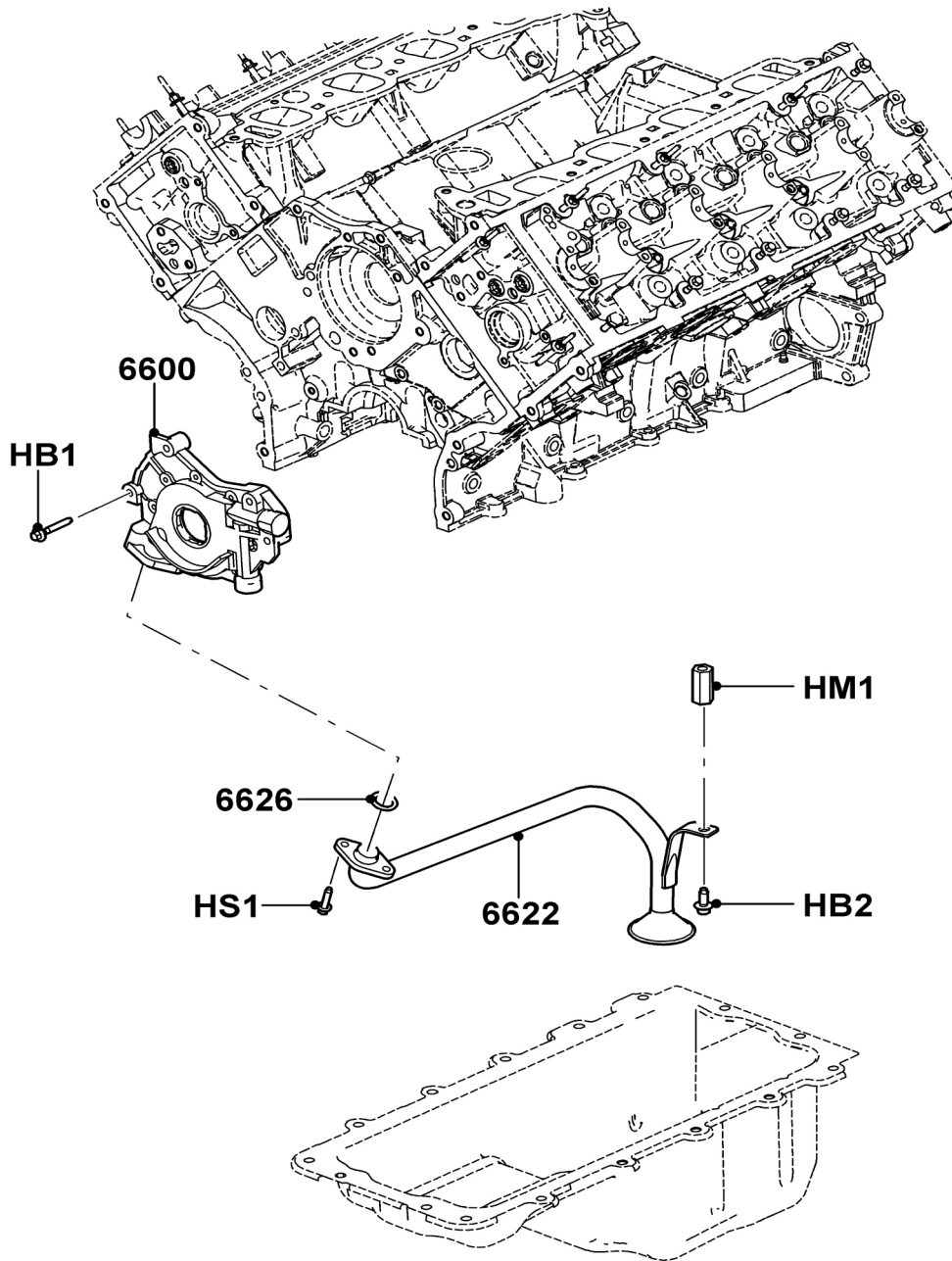
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
6C519A	0F1960A135	GROMMET, CVR TO HEAD	8
6C519B	0F1960A136	GROMMET, CVR TO HEAD	5
6582	0F1960A146	COVER, ROCKER & GASKET, LEFT	1
6582	0F1960A147	COVER, ROCKER & GASKET, RIGHT	1
6584	0F1960A132	GASKET, ROCKER CVR, RH	1
6584	0F1960A133	GASKET, ROCKER CVR, LH	1
6A892	0F73160176	GROMMET, PCV VALVE	1
6A892	0F1960A200	INSERT	1

5.4L Gas Engine Oil Pump

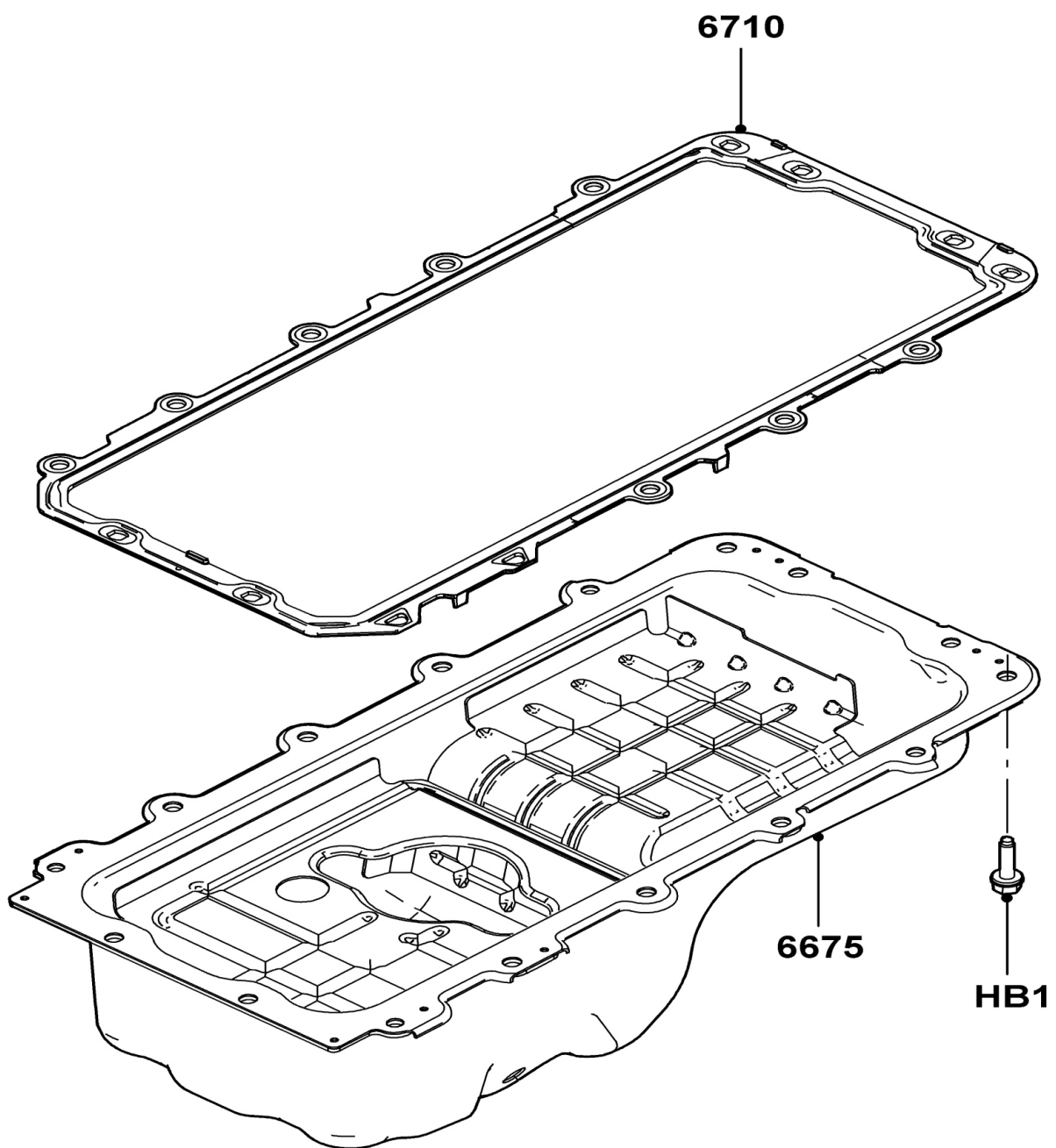
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
6600	0F73160179	PUMP ASSY., OIL	1
6622	0F1960A178	SCREEN & COVER	1
6626	0D34540148	SEAL, SCREEN & COVER	1
HB1	0F73160180	BOLT, O/PUMP, M6X1.0X42.5, HEX.	3
HB2	0F19600166	BOLT, SCREEN& CVR TO SPACER, M8X1.25X19 HEX	1
HM1	0D34540160	SPACER, SCREEN&CVR, M8X1.25X19	1
HS1	0F73160111	BOLT, PICK UP TUBE TO BLOCK, M8X1.0X27.5 HEX	2

5.4L Gas Engine Oil Pan & Level Indicator

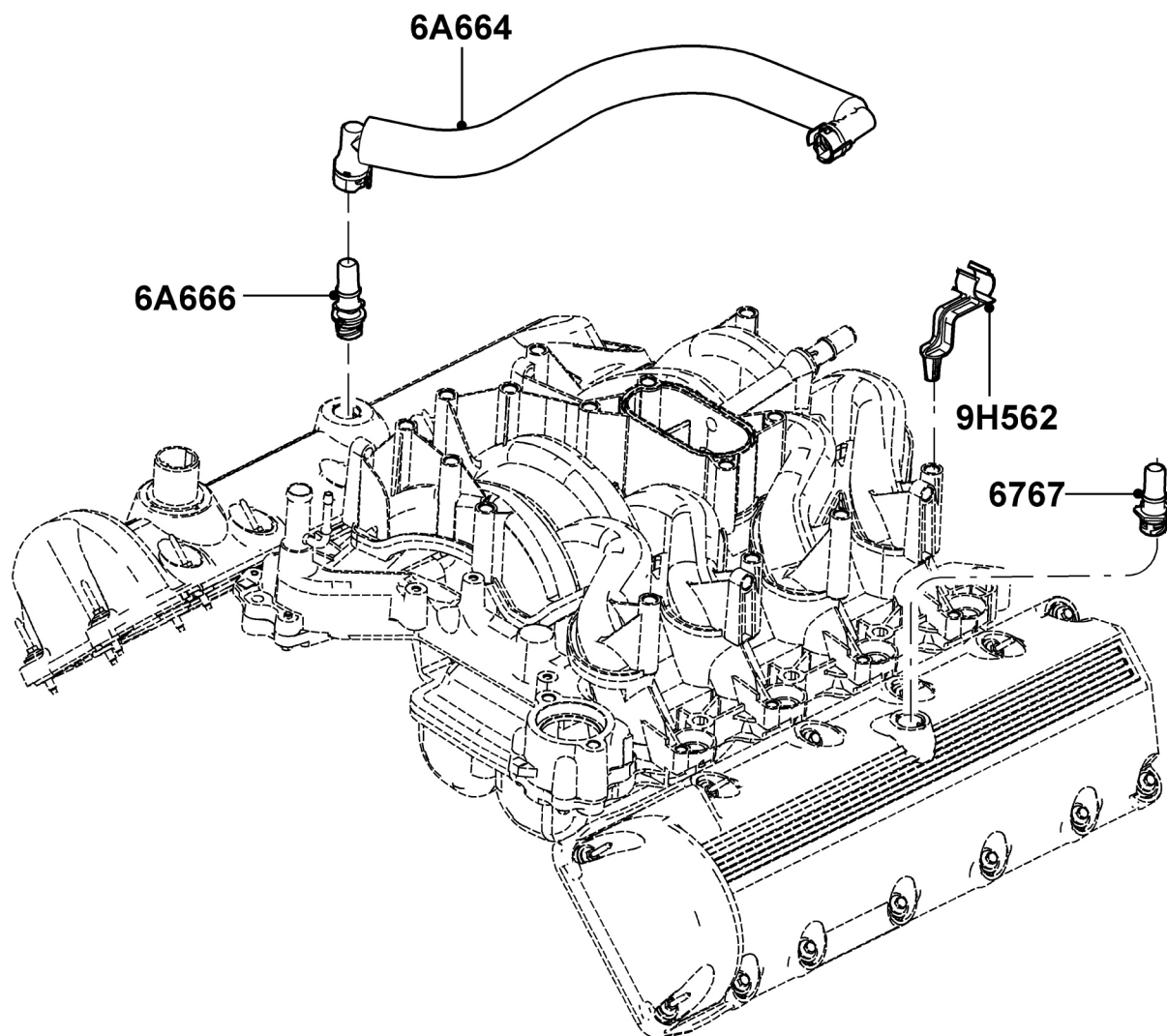
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
6675	0F1960A179	PAN, OIL	1
6710	0F19600107	GASKET, OIL PAN	1
HB1	0F19600170	BOLT, OIL PAN M8X30, HEX FLANGE HEAD	18

5.4L Gas Engine Crankcase Ventilation

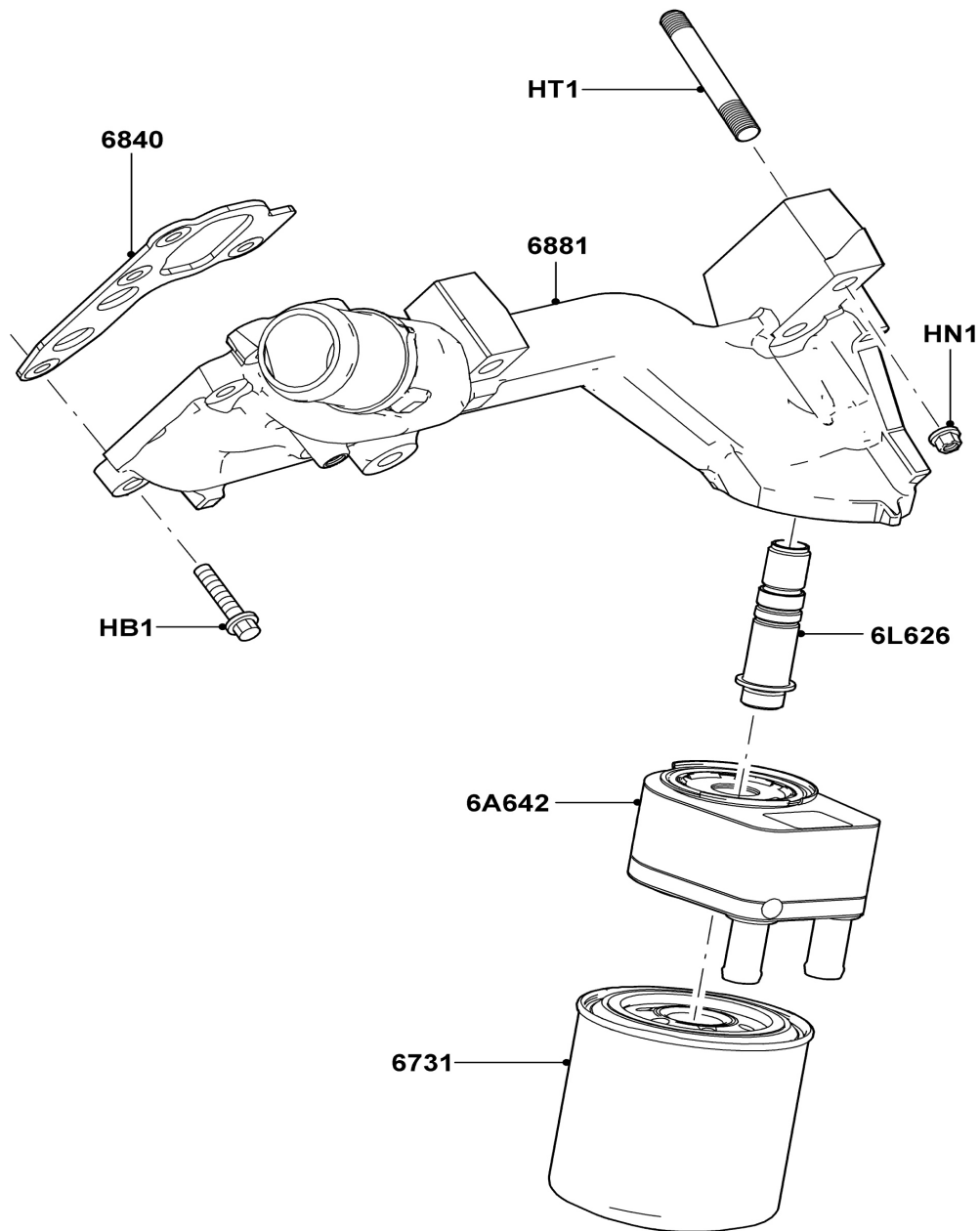
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
6A664	0F1960A130	HOSE, CRANKCASE EMISS. VLV TO INT. MANIFOLD	1
6A666	0F1960A151	VALVE, PCV	1
6767	0F7316C151	ELBOW, CRANKCASE VENT TUBE	1
9H562	0F1960A181	BRACKET	1

5.4L Gas Engine Oil Filter

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

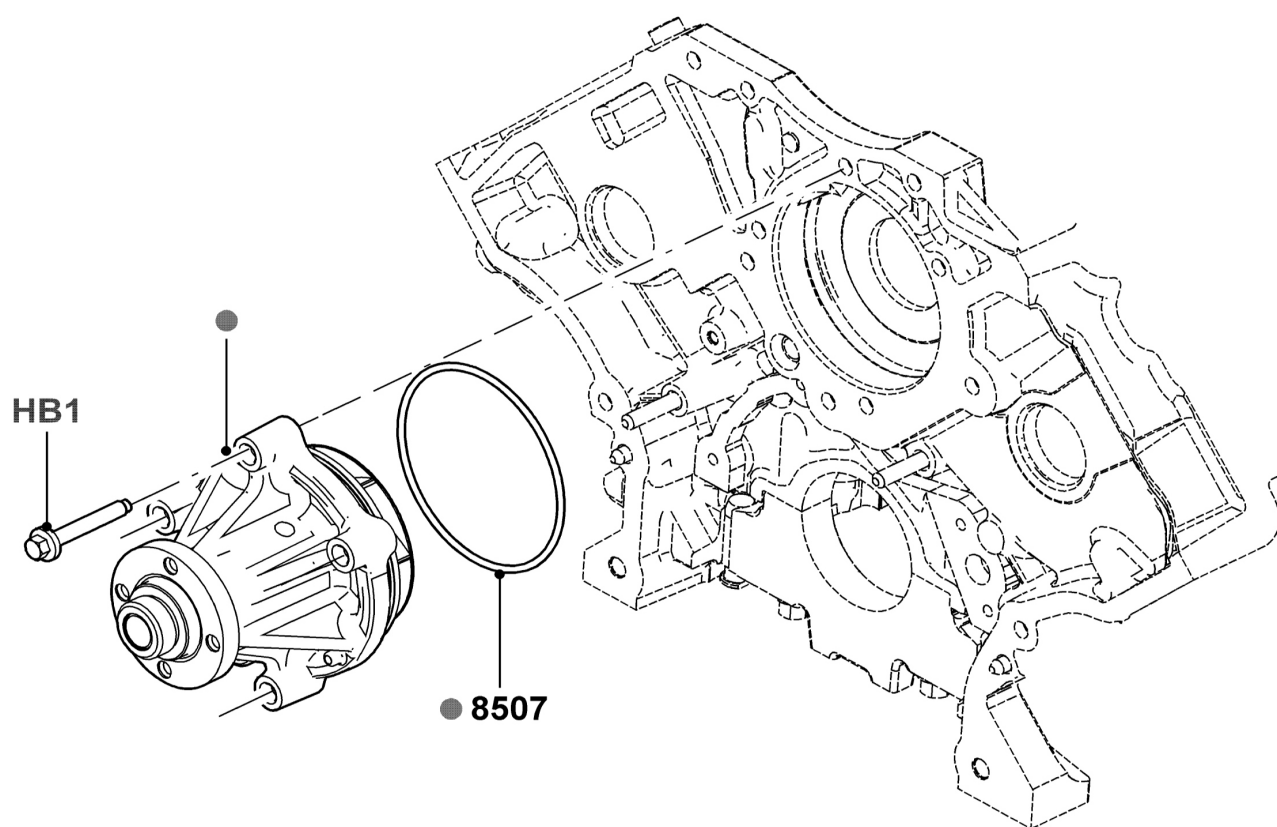


ITEM	PART NO.	DESCRIPTION	QTY
6L626	0F1960A112	INSERT, OIL COOLER MNTNG BOLT	1
6A642	0F1960A111	COOLER, OIL	1
6731	0D5419	FILTER, OIL	1
6840	0D34540154	GASKET, OIL FILTER ADAPTER	1
6881	0F1960A148	ADAPTER, OIL FILTER	1
HB1	0F73160178	BOLT, ADAPTER TO ENG., M8X1.25X41, HEX	4
HN1	0D34540158	NUT, ADAPTOR TO ENG., REAR	1
HT1	0F19600237	STUD, ADAPTER TO ENG., REAR	1

5.4L Gas Engine Water Pump

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

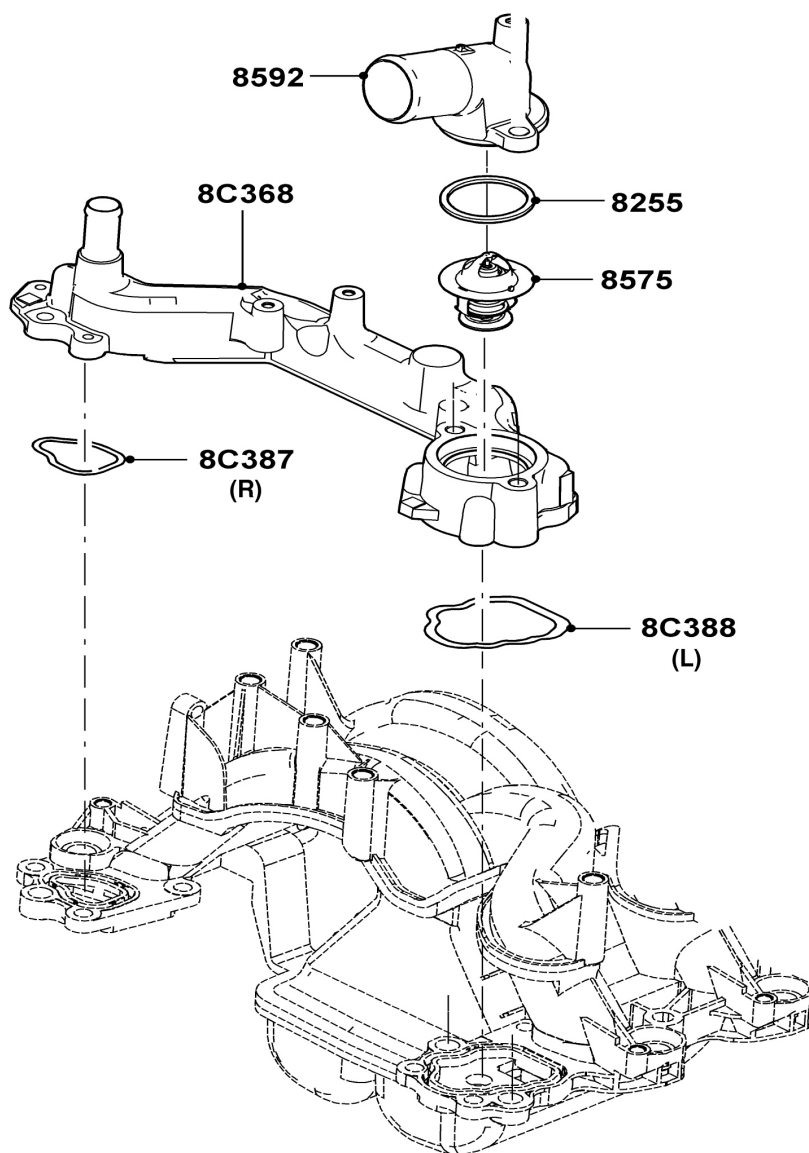
● = 8501



ITEM	PART NO.	DESCRIPTION	QTY
8501	0F19600106	PUMP, WATER	1
8507	0D34540233	GASKET, WATER PUMP	1
HB1	0D34540234	BOLT, WATER PUMP, M8X1.25X38	4

5.4L Gas Engine Thermostat

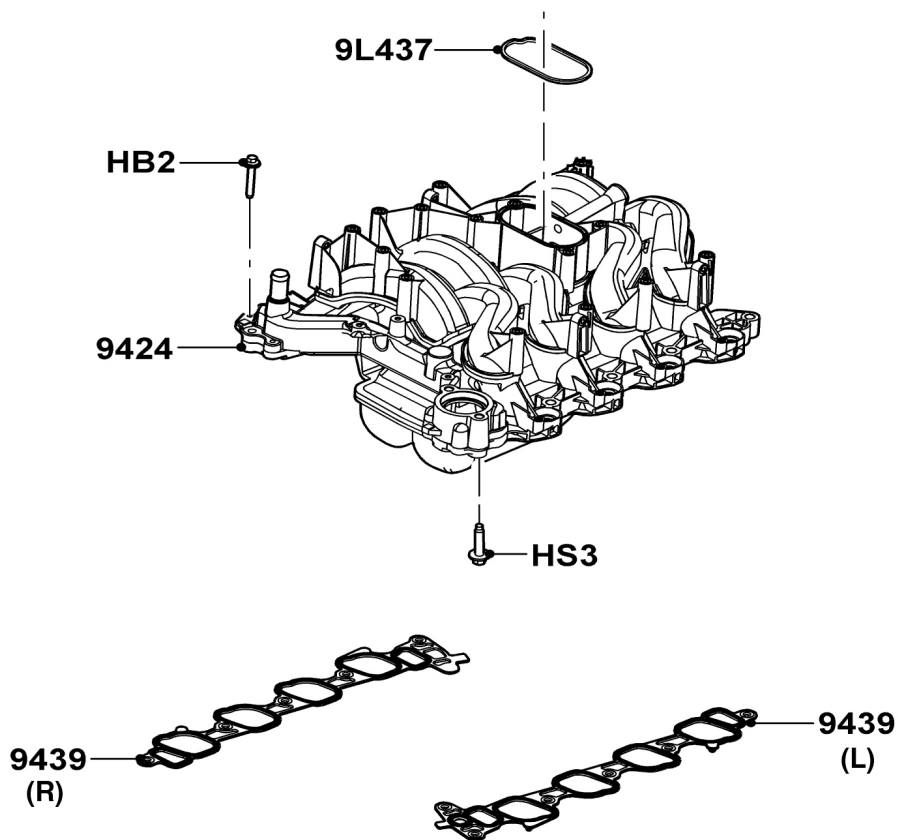
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
8255	0F2843	HOUSING GASKET, 48.5X3.63"O" RING	1
8C386	0F1960A138	TUBE, WATER BY PASS	1
8C387	0F19600182	GASKET, ENGINE COOL (RH)	2
8C388	0F19600183	GASKET, ENGINE COOL (LH)	1
8575	0F2844	THERMOSTAT	1
8592	0F2851	HOUSING, THERMOSTAT	1

5.4L Gas Engine Intake Manifold

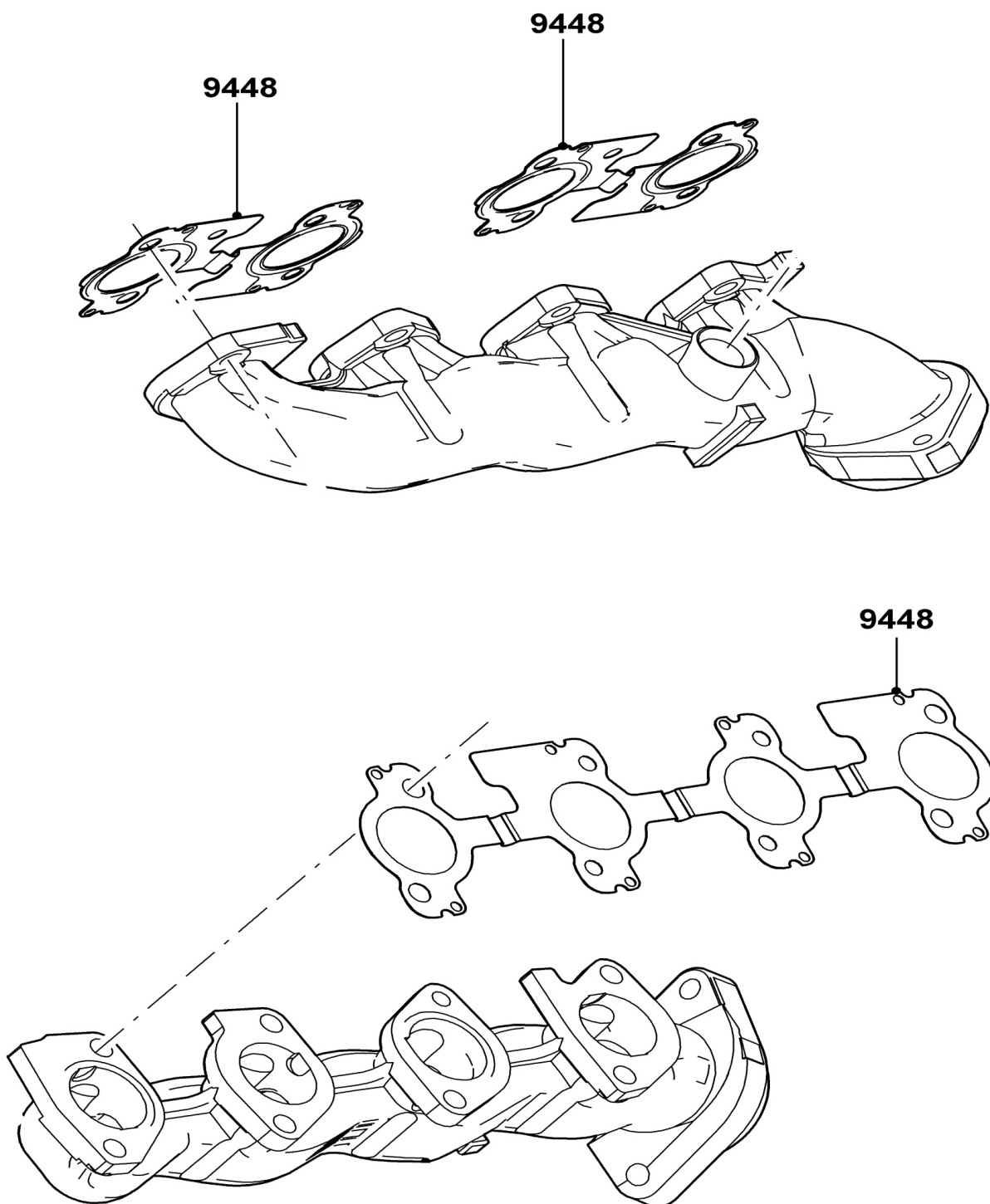
Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.



ITEM	PART NO.	DESCRIPTION	QTY
9424	0F1960A166	MANIFOLD, INTAKE	1
9L437	0F1960A201	GASKET, SPACER TO INTAKE MANIFOLD	1
9439	0F19600186	GASKET, INT. MANIFLD, TO HEAD, RH	1
9439	0F19600187	GASKET, INT. MANIFLD, TO HEAD, LH	1
HB2	0F1960A190	BOLT, M8 X 50 MM	A/R
HS3	0F19600188	SCREW, M6 X 25 MM	A/R

5.4L Gas Engine Exhaust Manifolds

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

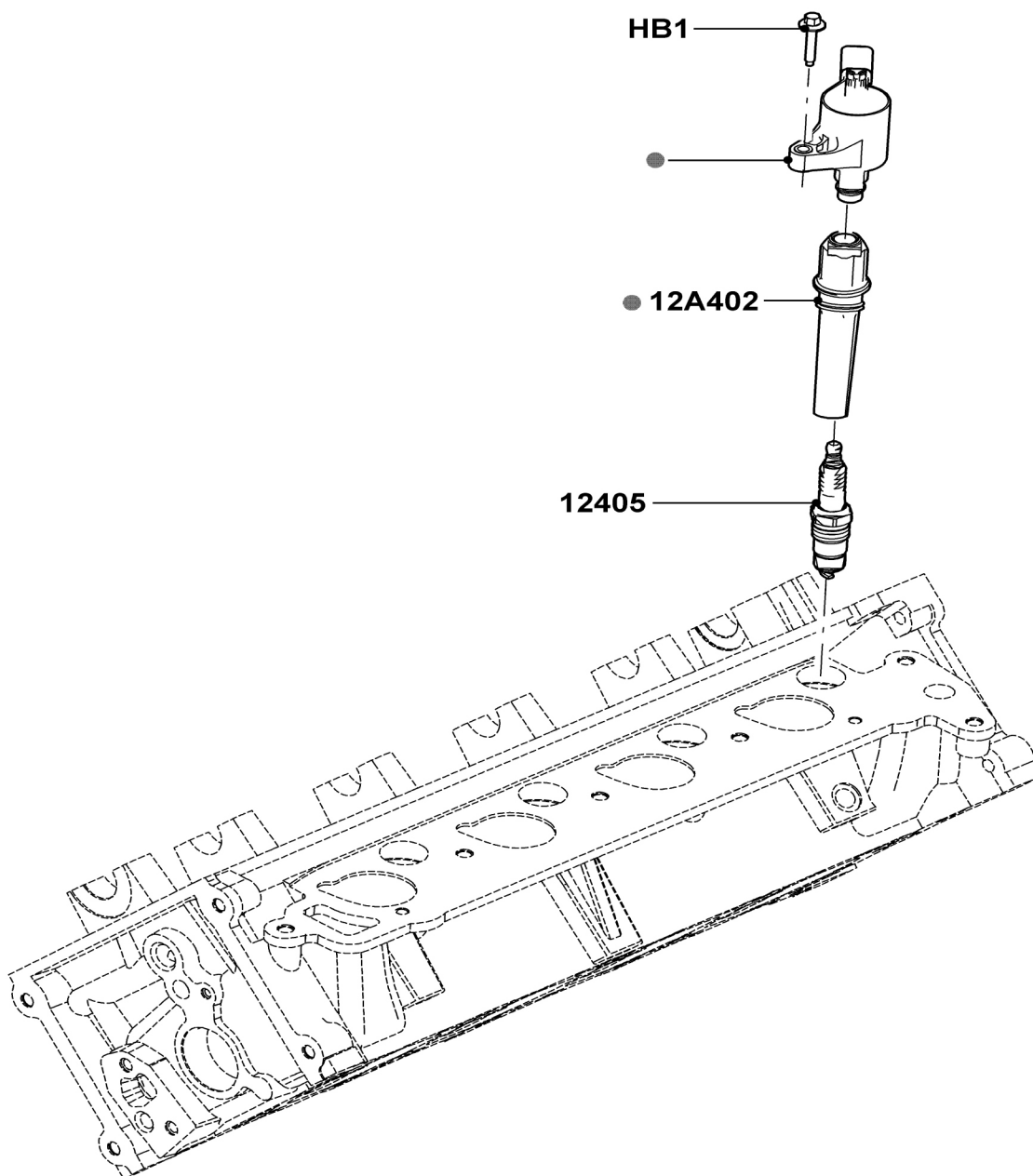


ITEM	PART NO.	DESCRIPTION	QTY
9448	0F19600193	GASKET, EXH. MANIFLD, RH, 4 PORT	1
9448	0F19600194	GASKET, EXH. MANIFLD, LH, 2 PORT	2

5.4L Gas Engine Ignition System

Note: The right and left banks of engine are determined by viewing the engine from the flywheel side.

● = 12029



ITEM	PART NO.	DESCRIPTION	QTY
12029	0F2842	COIL ON PLUG ASSEMBLY	8
12405	0F1960A173	PLUG, SPARK	8
12A402	0F73160250	BOOT, COIL TO PLUG	A/R
HB1	0F1960A194	BOLT, M5 X 25MM, COIL TO ROCKER CVR.	A/R

