



M-6004-A50D
2024- Mustang 5.0L
Chain-drive kit

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PRIOR TO INSTALLATION READ THESE INSTRUCTION COMPETELY
For questions, Call the FORD PERFORMANCE Techline 1-800-367-3788

Please visit <https://www.performanceparts.ford.com> for warranty information

Part #	Description	Qty
9L8Z-6C683-A	VCT/camshaft filter	4
BR3Z-6A340-A	Damper bolt	1
BR3Z-6268-A	Secondary timing chain	2
FR3Z-6268-A	Primary timing chain	2
BR3Z-6279-A	VCT phaser bolt	6
JL3Z-6L266-C	Primary chain tensioner	2
JL3Z-6B274-B	Chain guide	1
JL3Z-6K255-A	Tensioner arm	2
JL3Z-6M256-A	Chain guide	1
JR3Z-6C525-A	Exhaust VCT sprocket	2
JR3Z-6279-A	Exhaust phaser bolt	2
KR3Z-6306-B	Crank sprocket	1
ML3Z-6K254-A	Secondary chain tensioner	2
ML3Z-6C524-B	Intake VCT sprocket	2
ML3Z-6K297-A	Secondary tensioner guide	2
N806183-S437	Oil pump bolt	2
N807033-S439	Damper bolt washer	1
W503282-S437	Chain guide bolt	2
W701501-S	Dowel	1
W714251-S300	Oil pump stud bolt	1
W714252-S300	Oil pump stud bolt	1
W714258-S300	Dowel	3
W718243-S437	Primary tensioner bolt	4

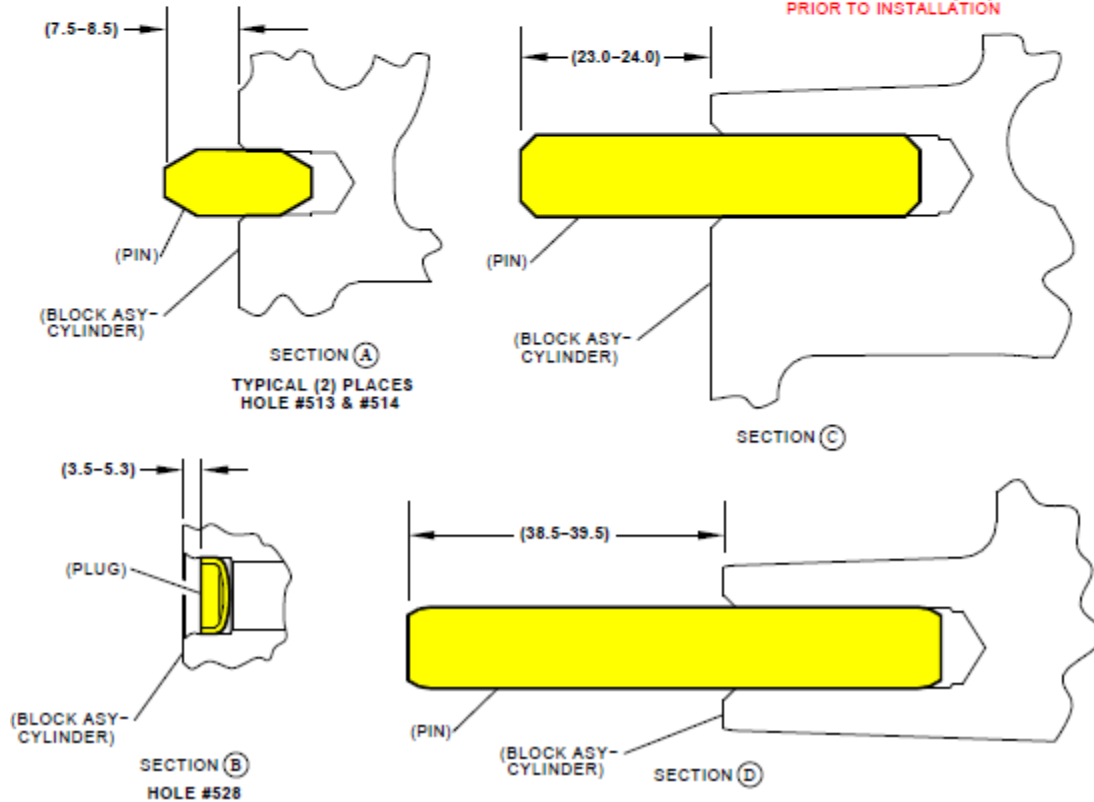
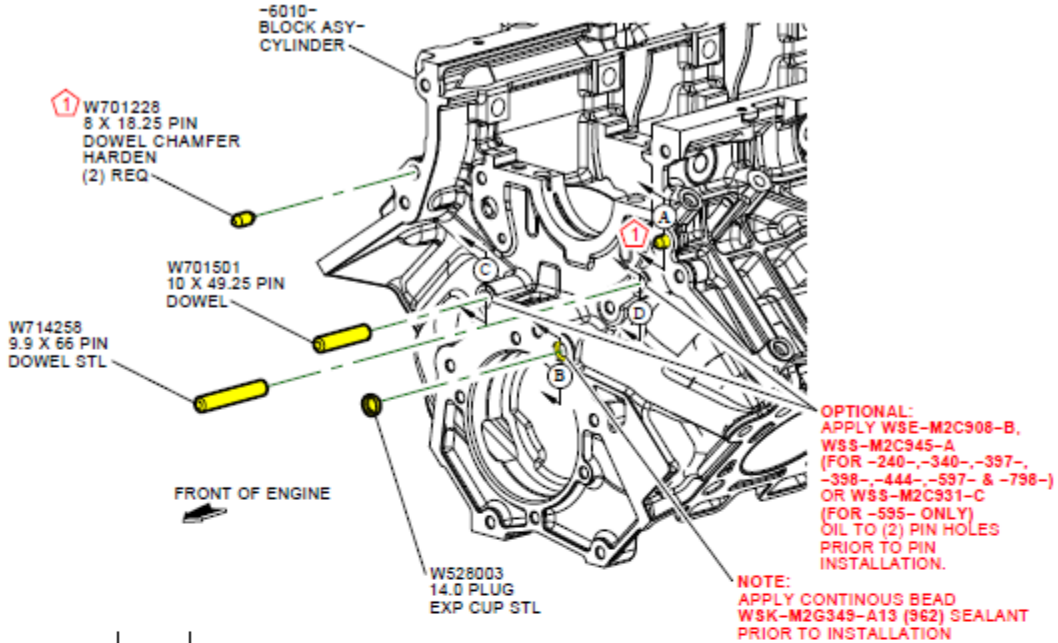
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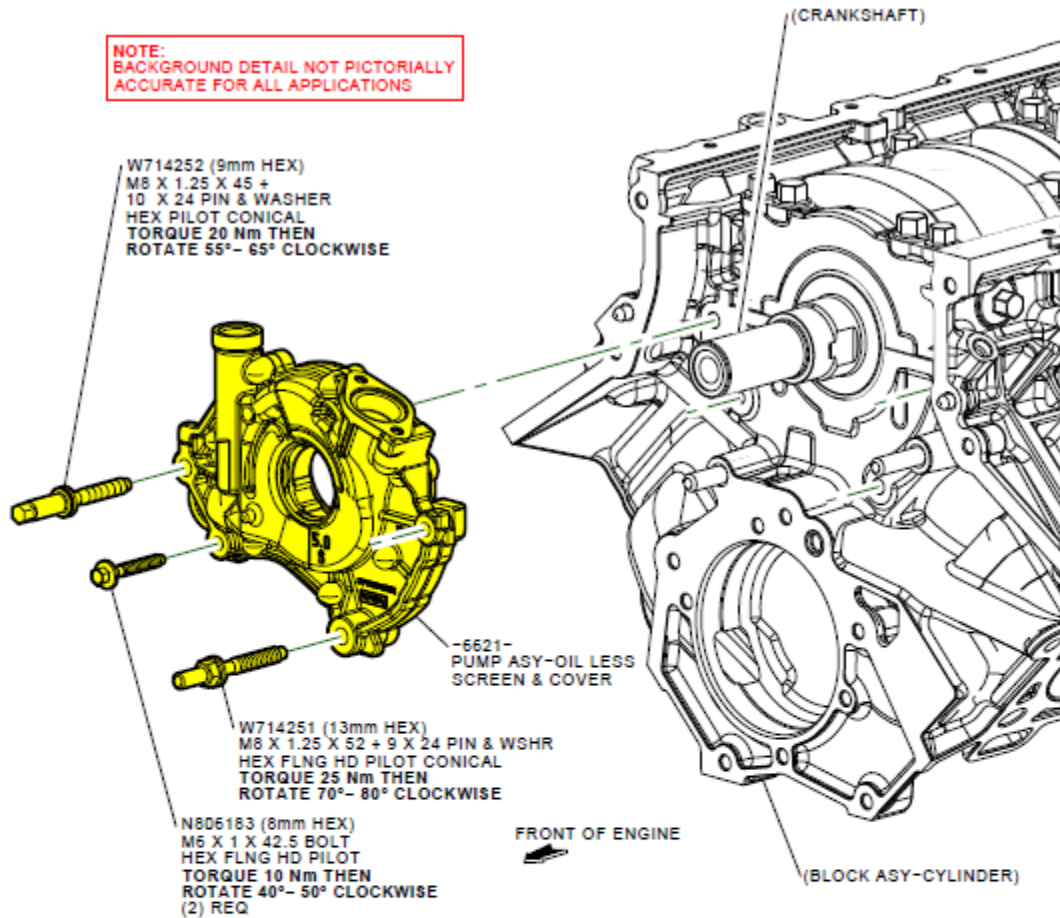
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ASSEMBLY PROCEDURE

1. ROTATE INNER ROTOR OF OIL PUMP ASY (-6621-) TO ALIGN WITH FLATS ON CRANKSHAFT POST AND SLIP OIL PUMP OVER UNTIL SEATED AGAINST BLOCK.

NOTE:
PUMP MUST BE HELD AGAINST BLOCK UNTIL BOLTS ARE TORQUED.

2. ROTATE OIL PUMP ASY, ALIGN BOLT HOLES, INSTALL (4) FASTENERS AND SIMULTANEOUSLY TORQUE TO SPECIFICATION.

NOTE:
FOR PRODUCTION, ROTATION OF CRANKSHAFT DURING TORQUE PROCEDURE IS REQUIRED.

SINGLE WRENCH METHOD (SERVICE)

1. ROTATE INNER ROTOR OF OIL PUMP ASY TO ALIGN WITH FLATS ON CRANKSHAFT POST AND SLIP OIL PUMP OVER UNTIL SEATED AGAINST BLOCK.

NOTE:
PUMP MUST BE HELD AGAINST BLOCK UNTIL BOLTS ARE TORQUED.

2. ROTATE OIL PUMP ASY, ALIGN BOLT HOLES, INSTALL (4) FASTENERS.
3. TORQUE FASTENERS 0 Nm.
4. TORQUE M8 FASTENER W714251 25 Nm, M8 FASTENER W714252 20 Nm AND M6 FASTENERS N806183 10 Nm.
5. ROTATE M8 FASTENER W714251 70°- 80° CLOCKWISE, ROTATE M8 FASTENER W714252 55°- 65° CLOCKWISE AND M6 FASTENERS N806183 40°- 50° CLOCKWISE.

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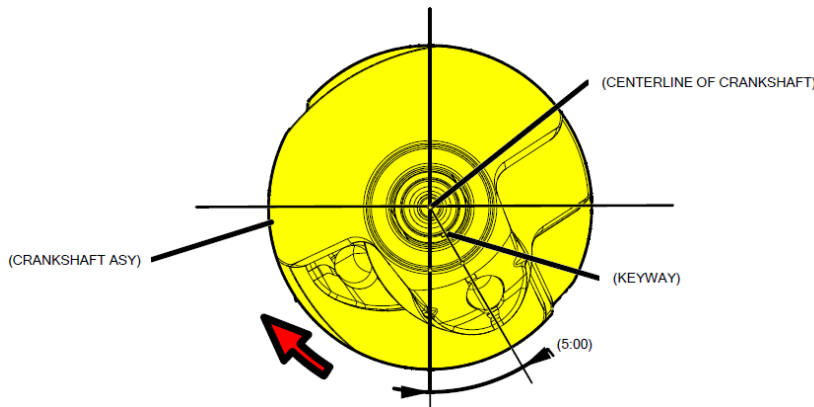
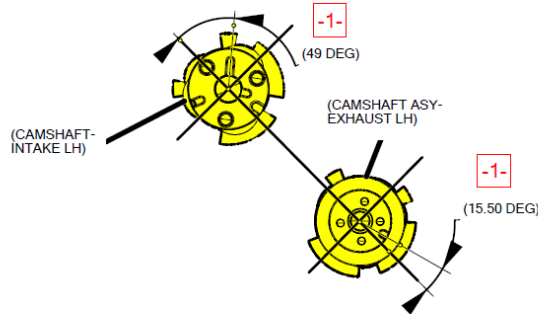


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CRANKSHAFT AND LH CAMSHAFT COMPONENTS FOR S650 ONLY NEUTRAL POSITION



NOTE:
CRANKSHAFT MUST BE
ROTATED CLOCKWISE ONLY

-1- NOTE:
CRANKSHAFT, CAMSHAFTS, PRIMARY SPROCKETS & CHAINS, MUST
BE POSITIONED TO SPECIFICATION SHOWN, PRIOR TO FASTENER
INSTALLATION AND PRELIMINARY RUNDOWN.
REPRESENTS APPROXIMATE CAMSHAFT KEYWAY POSITIONS WHEN
CAMSHAFTS ARE IN NEUTRAL POSITION SHOWN

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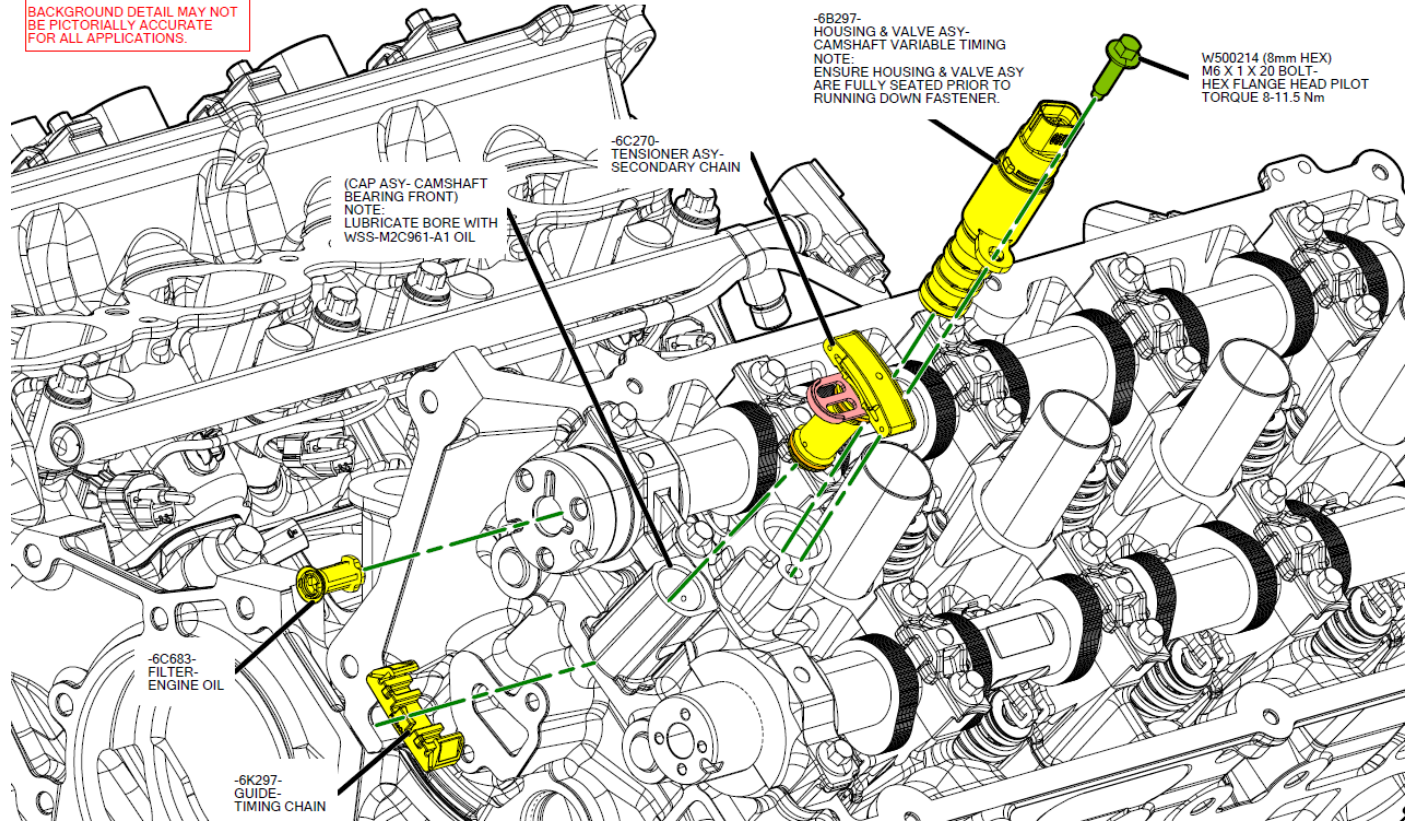
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ENGINE OIL FILTER AND CAMSHAFT

S650 SHOWN

BACKGROUND DETAIL MAY NOT BE PICTORIALLY ACCURATE FOR ALL APPLICATIONS.



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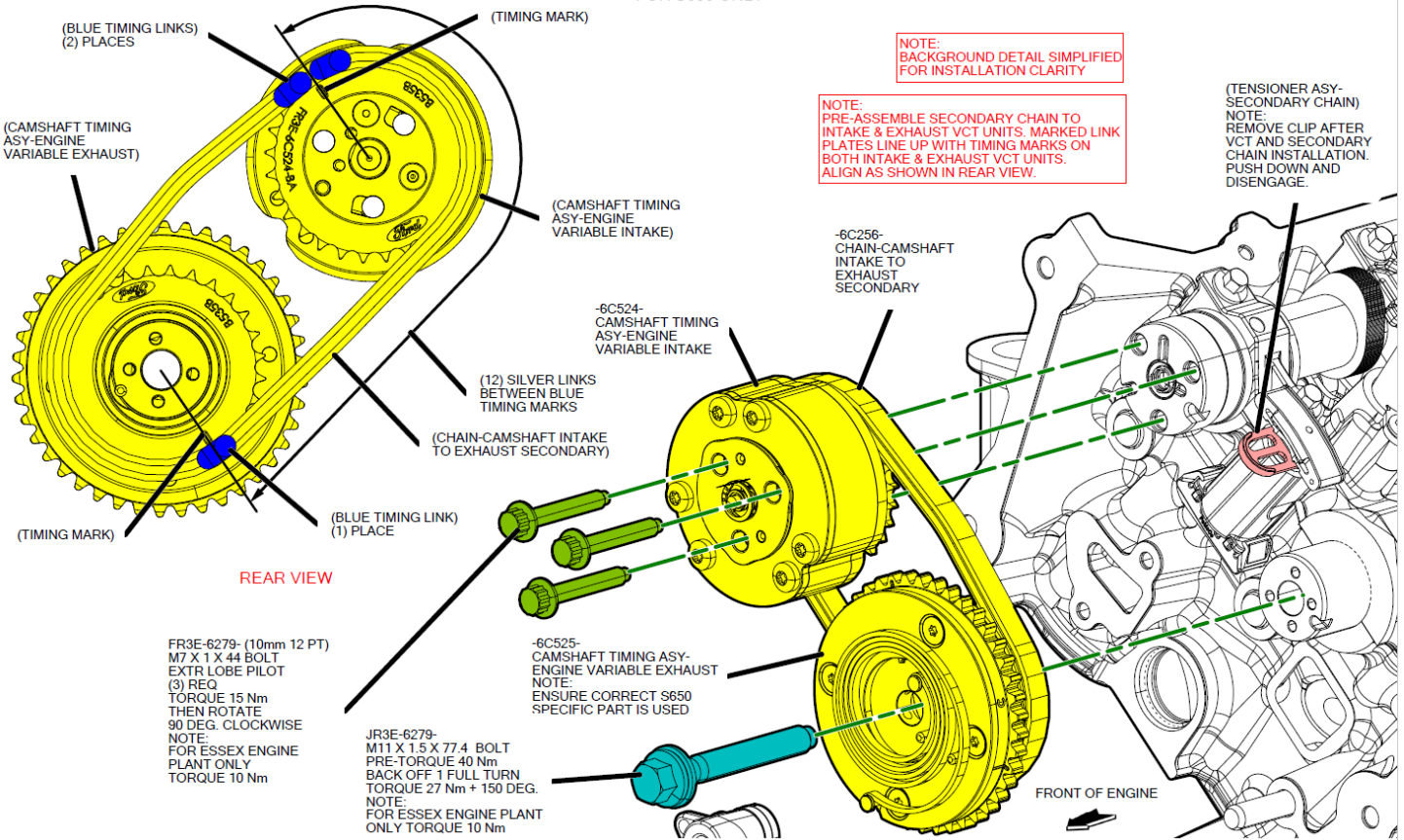
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PROPRIETARY

LH SECONDARY CHAIN CAMSHAFT INTAKE TO EXHAUST AND
ENGINE VARIABLE CAMSHAFT TIMING ASY
FOR S650 ONLY



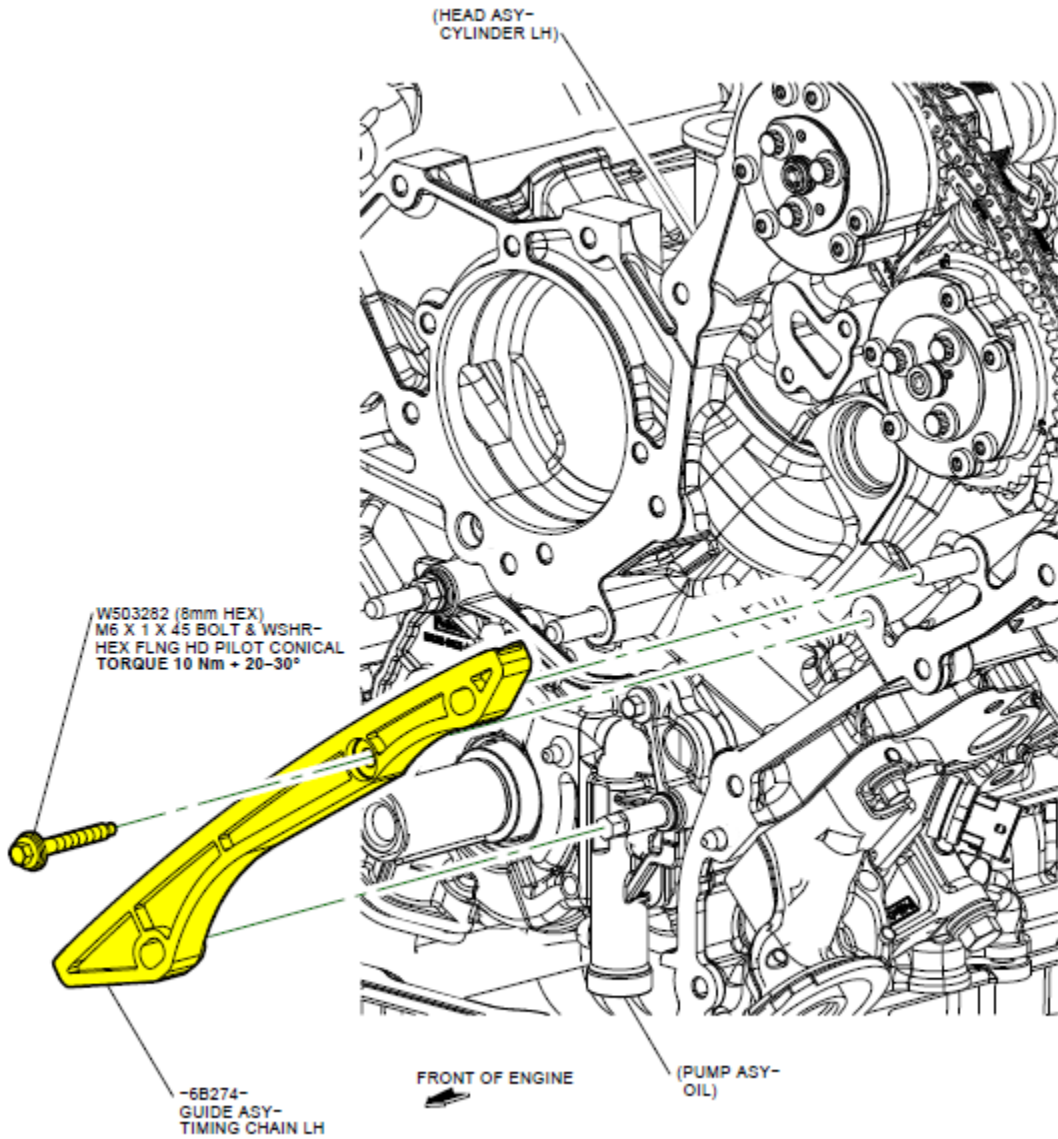
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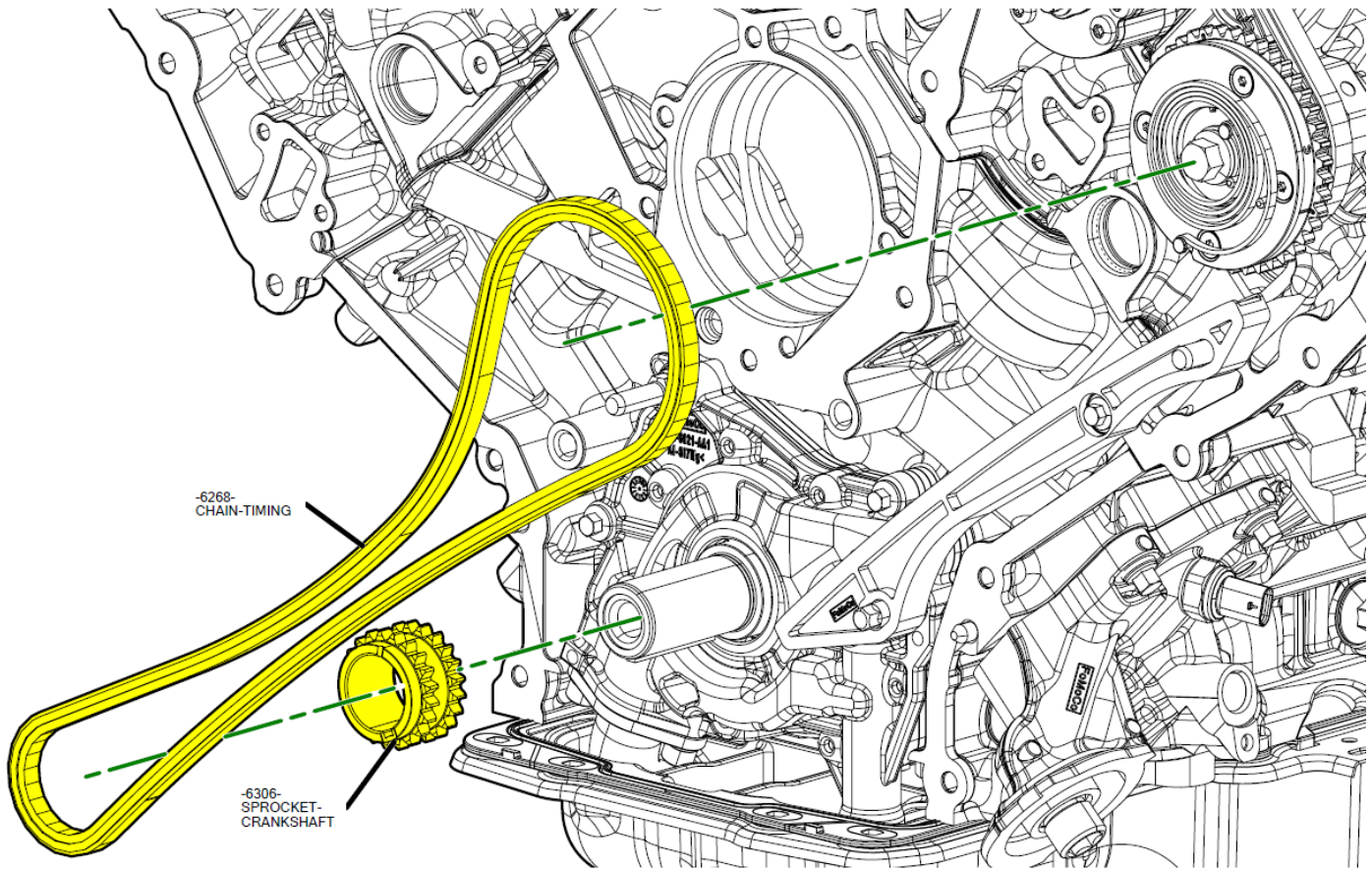
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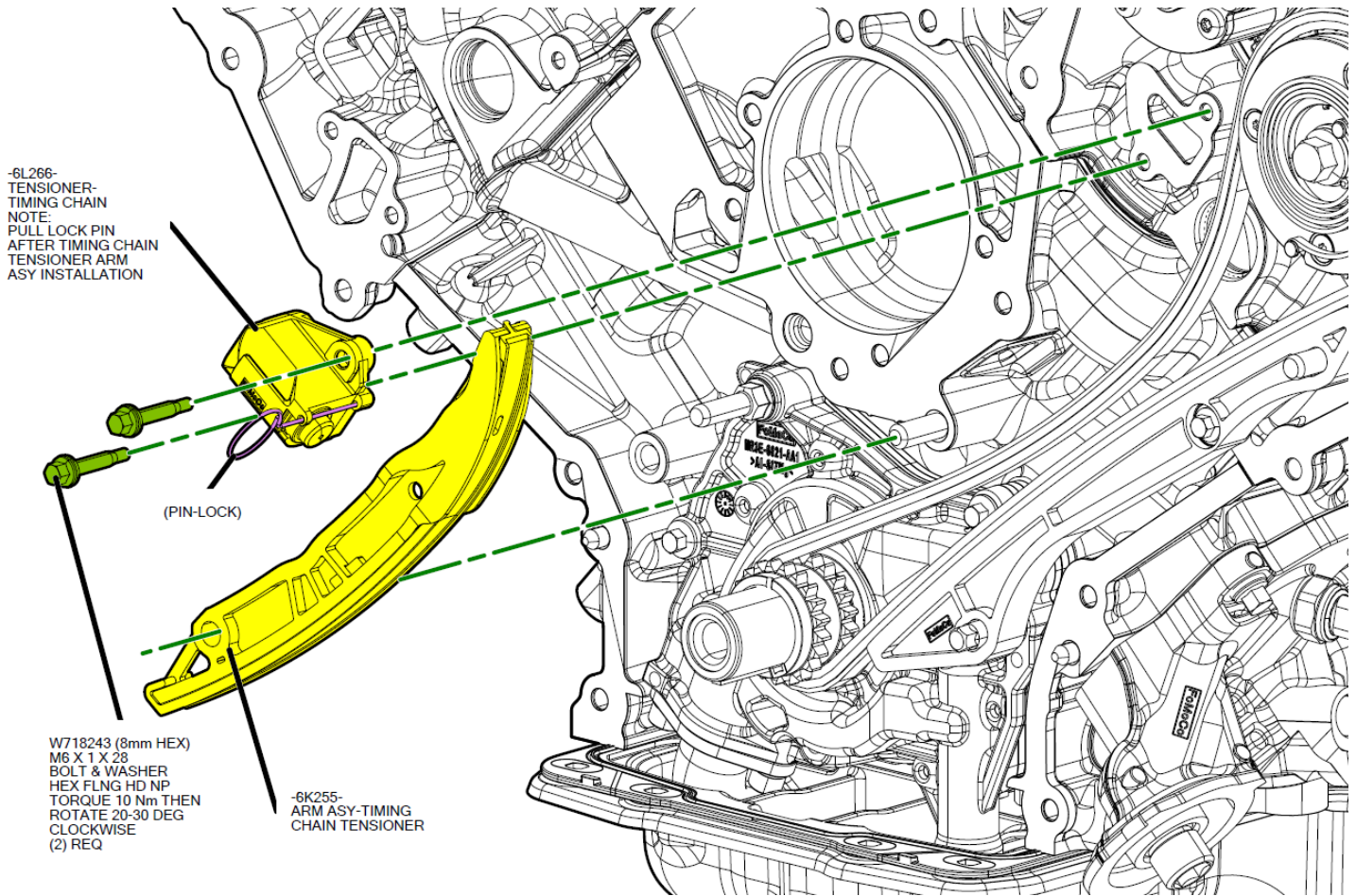
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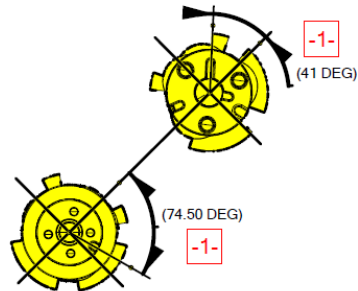
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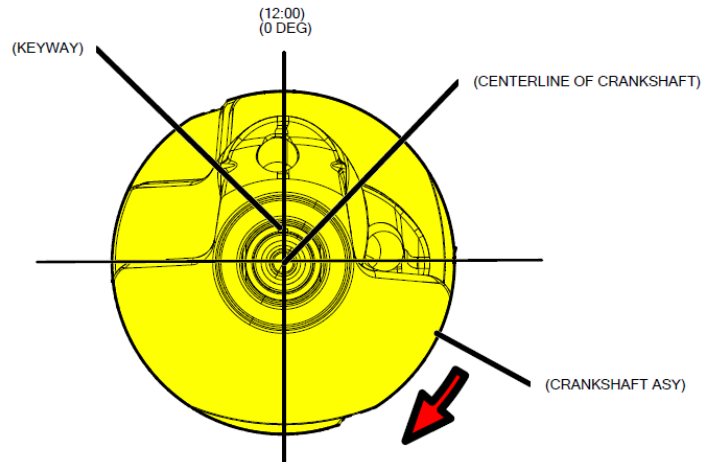
CRANKSHAFT AND RH CAMSHAFT COMPONENTS FOR S650 ONLY NEUTRAL POSITION



NOTE:
ROTATE CRANKSHAFT 360 DEG. FROM POSITION FOR LH CAMSHAFT
INSTALLATION. THEN, WITH ADDITIONAL ROTATION, CRANKSHAFT KEYWAY
MUST BE ORIENTED AT 12:00 POSITION AS SHOWN. CAMSHAFTS MUST BE
CLOCKED RELATIVE TO CAM COVER RAIL AS SHOWN, PRIOR TO CAM DRIVE
COMPONENTS RUNDOWN AND TIGHTENING.

NOTE:
CRANKSHAFT MUST BE
ROTATED CLOCKWISE ONLY

-1- NOTE:
CRANKSHAFT, CAMSHAFTS, PRIMARY SPROCKETS & CHAINS, MUST
BE POSITIONED TO SPECIFICATION SHOWN, PRIOR TO FASTENER
INSTALLATION AND PRELIMINARY RUNDOWN.
REPRESENTS APPROXIMATE CAMSHAFT KEYWAY POSITIONS WHEN
CAMSHAFTS ARE IN NEUTRAL POSITION SHOWN



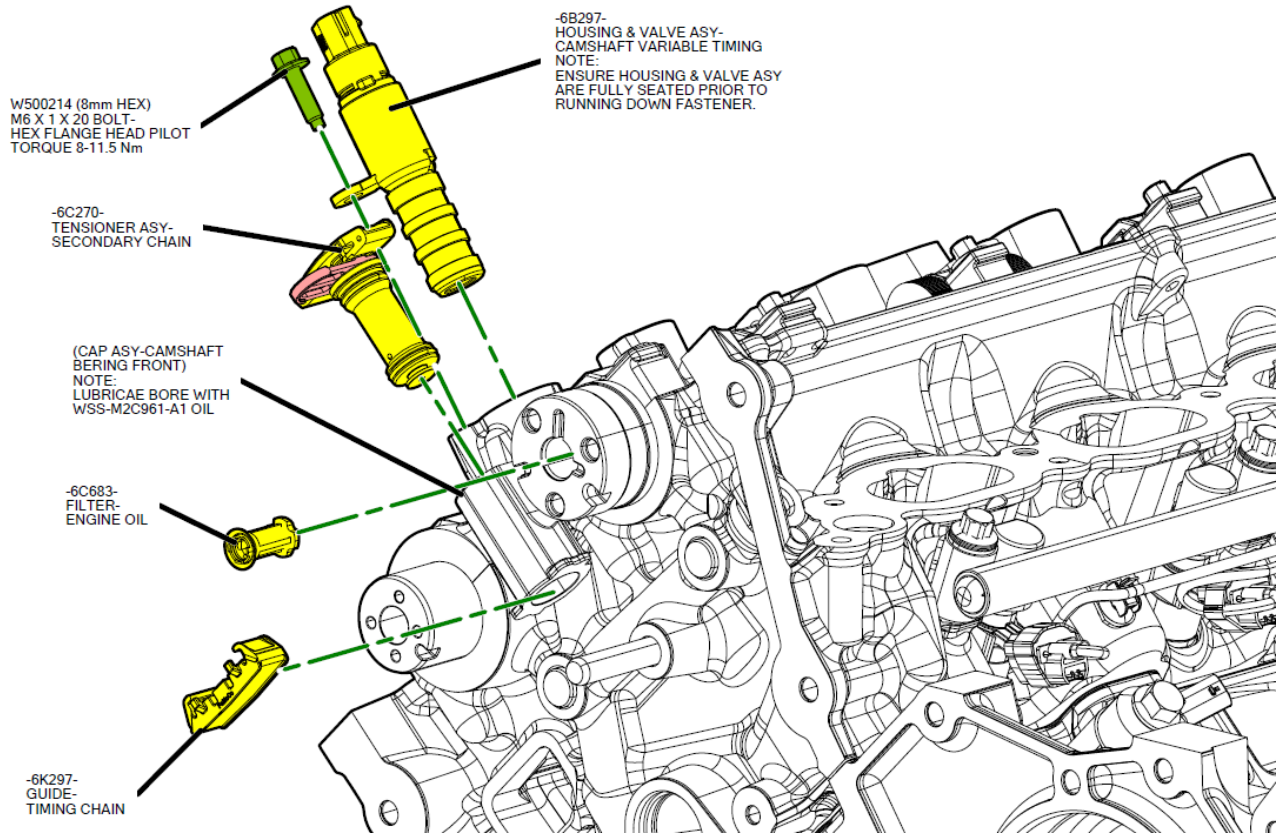
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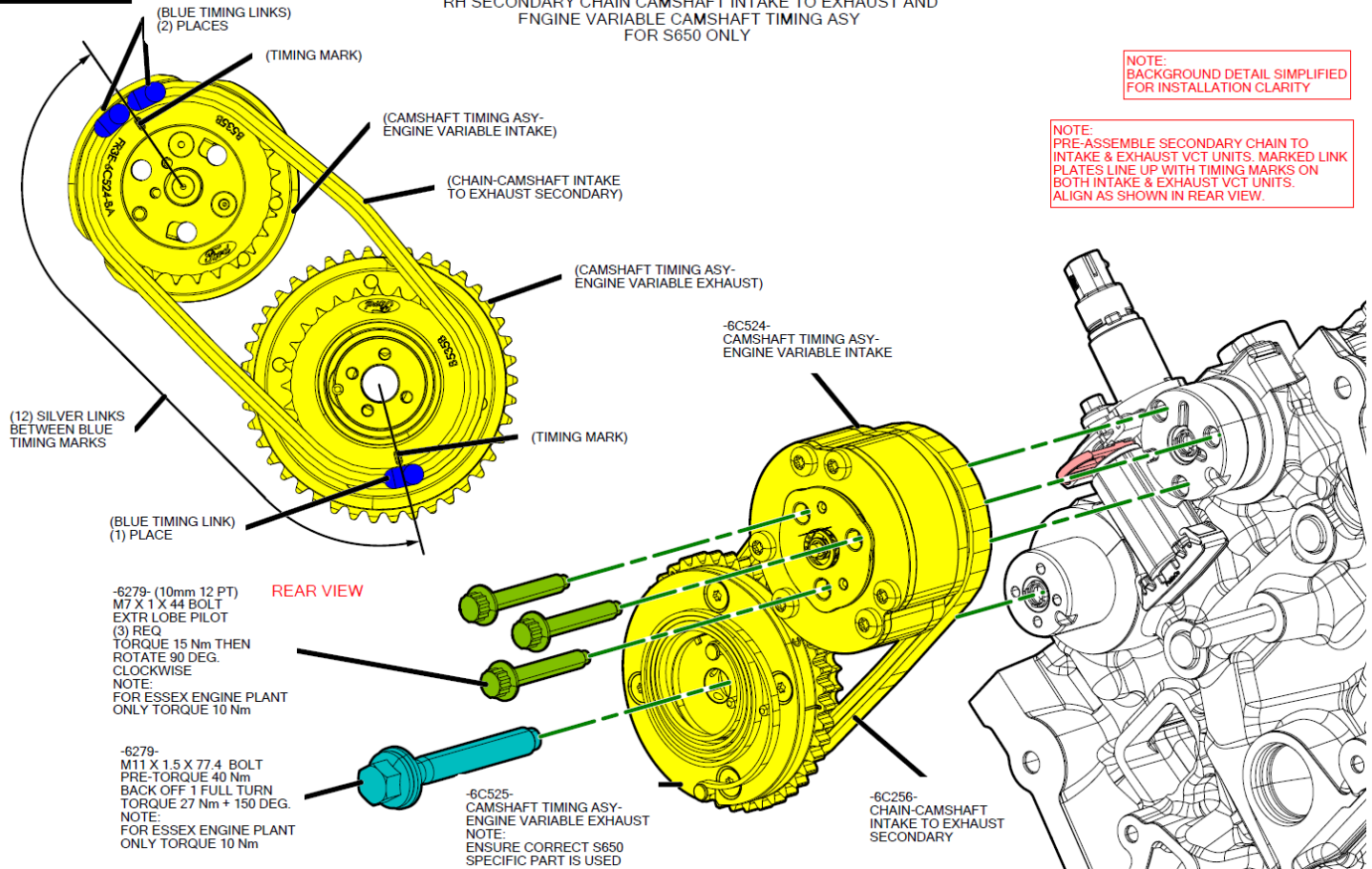
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RH SECONDARY CHAIN CAMSHAFT INTAKE TO EXHAUST AND
ENGINE VARIABLE CAMSHAFT TIMING ASY
FOR S650 ONLY

NOTE:
BACKGROUND DETAIL SIMPLIFIED
FOR INSTALLATION CLARITY

NOTE:
PRE-ASSEMBLE SECONDARY CHAIN TO
INTAKE & EXHAUST VCT UNITS. MARKED LINK
PLATES LINE UP WITH TIMING MARKS ON
BOTH INTAKE & EXHAUST VCT UNITS.
ALIGN AS SHOWN IN REAR VIEW.



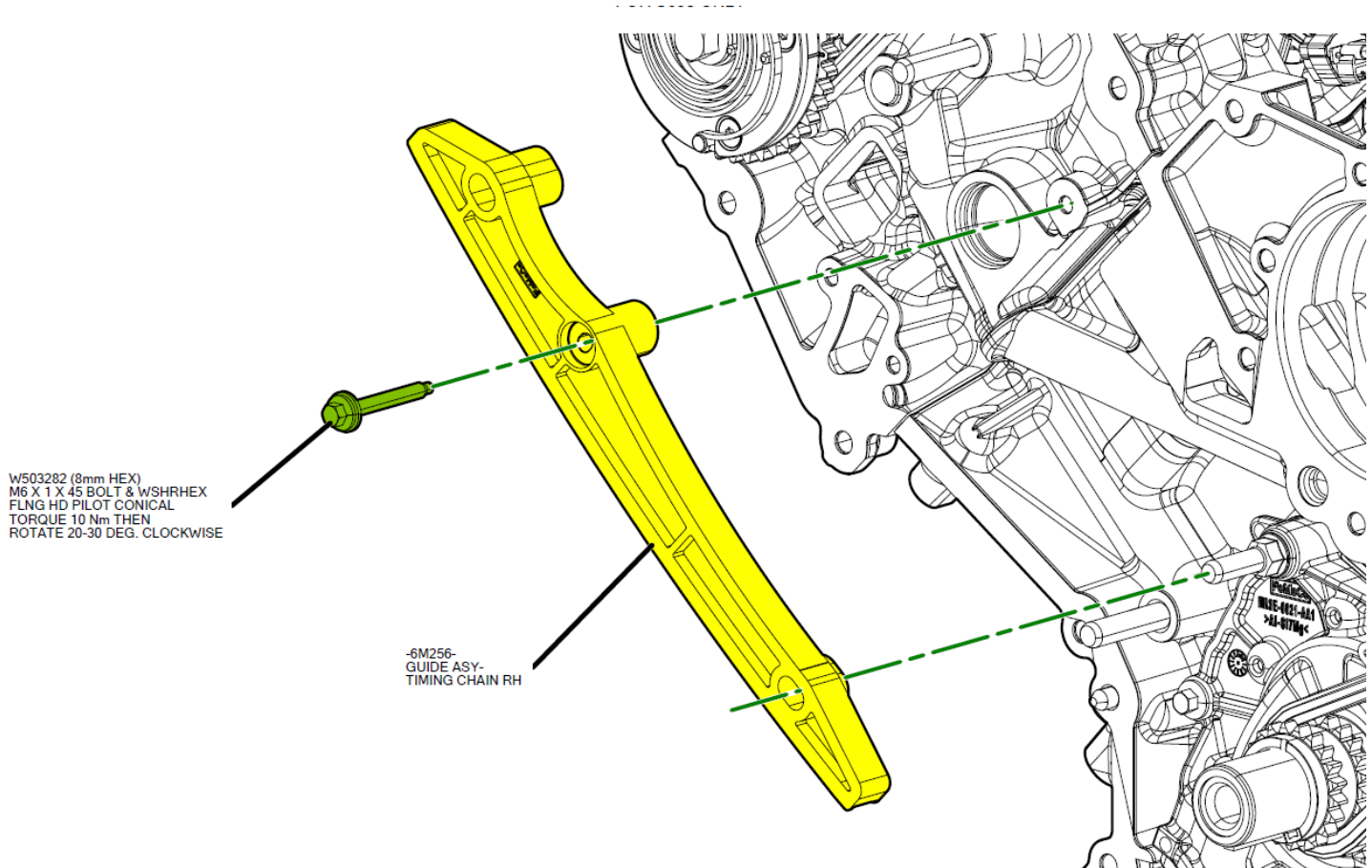
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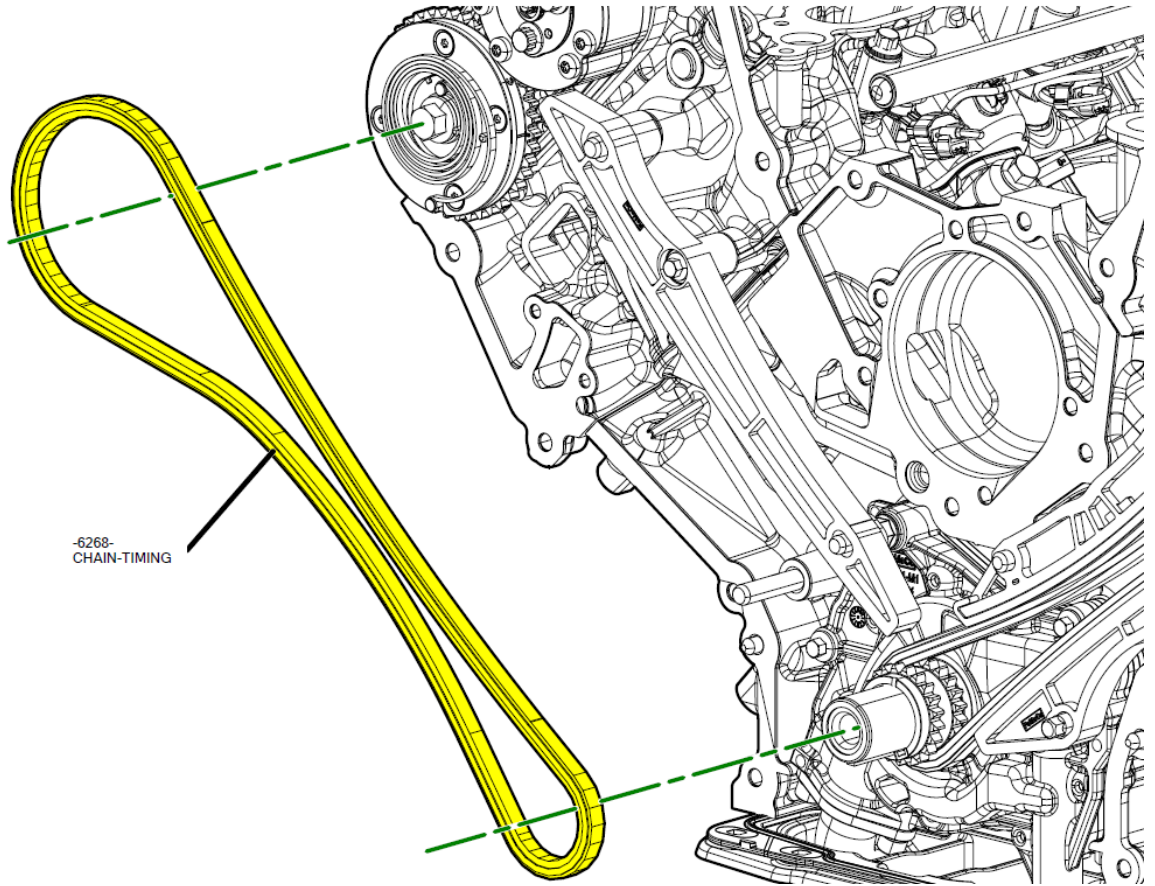


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FOR S650 ONLY



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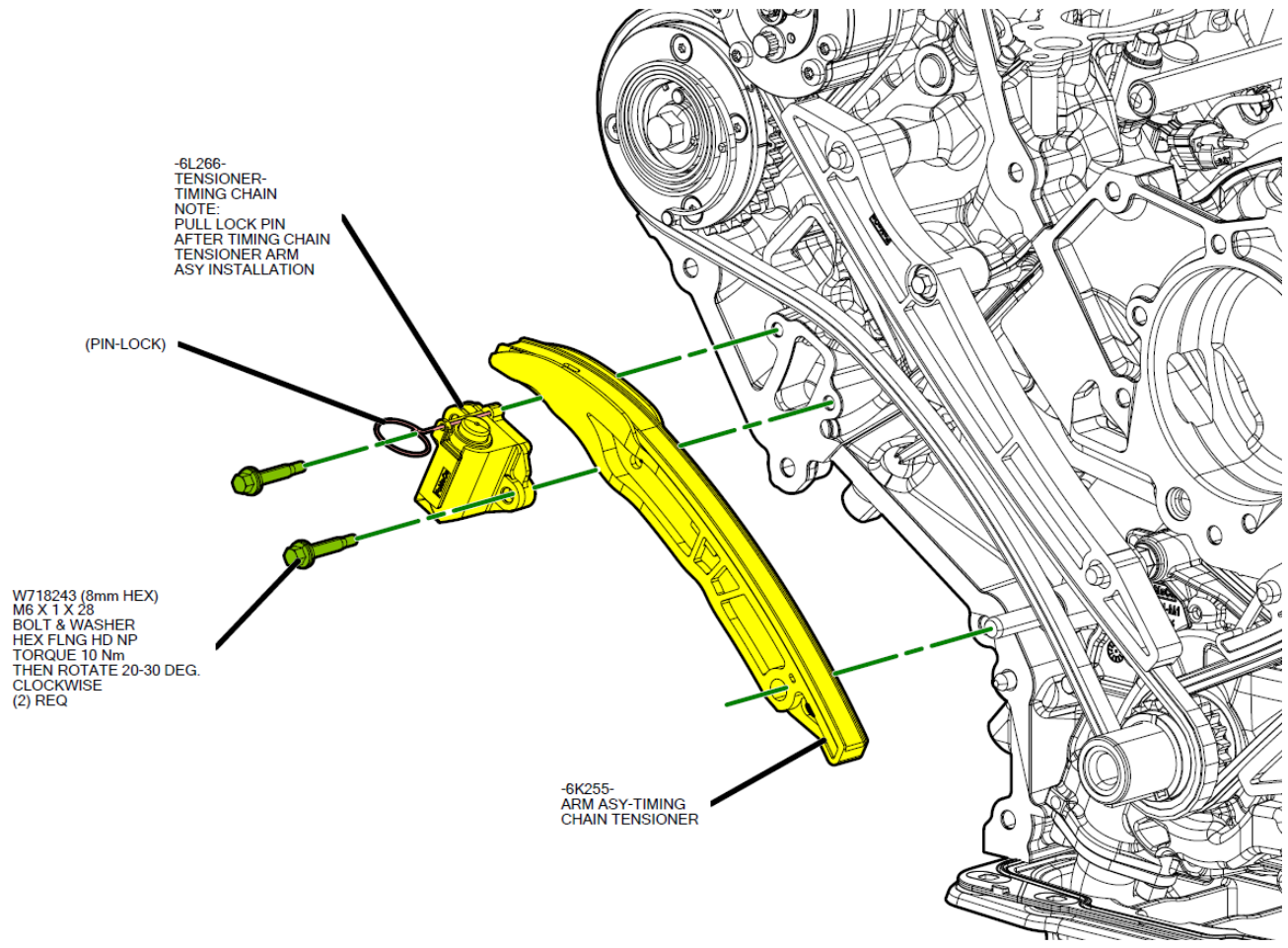
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PROPRIETARY

TIMING CHAIN TENSIONER ARM ASY AND TIMING CHAIN TENSIONER RH
FOR S650 ONLY



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