

9431020

Diesel Engine

Setting/Locking Tool Set



IMPORTANT: Always refer to the vehicle manufacturer's service instructions, or proprietary manual, to establish the current procedures and data. Product Information Sets detail applications and use of the tools with any general instructions provided as a guide only.

Applications:

CITROËN / PEUGEOT Diesel engines 1.4HDI & 1.6 HDi

Also in Ford models as Duratorq TDCi engines

CITROËN

Xsara	C2	C3
C4	C5	

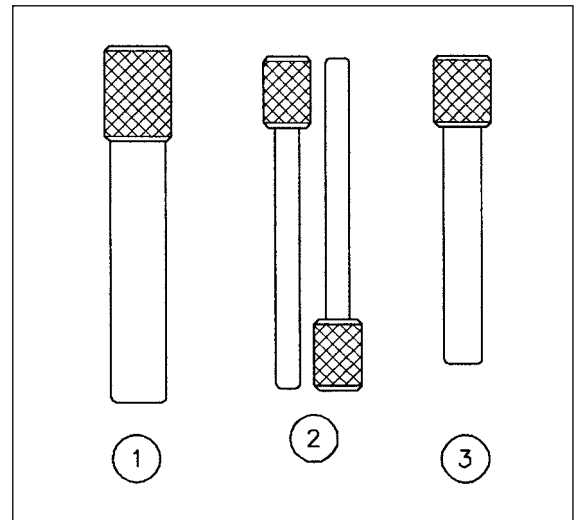
FORD

Fiesta	Fusion	Focus
Focus C-Max		

PEUGEOT

206	307
-----	-----

DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6JA/F6JB/F6JC/G8DA/G8DB (Ford) engines



Set contents/spares

Item	Part Number	Description
1	4735P16	Flywheel Locking Pin
2	4735P15	Injection Pump & Crankshaft Locking Pin (2 per set)
3	4735P17	Camshaft Locking Pin

4735A Diesel Engine Setting/Locking Tool Set Comprises: 4735P15 Crankshaft & Fuel Pump Sprocket Locking Pins (x 2)

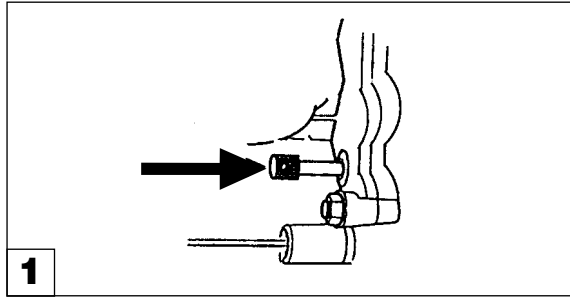
4735P16 Flywheel Locking Pin For
locking engine whilst removing and installing
crank pulley/bolt.

4735P17 Camshaft Locking Pin

PSA 1.4 and 1.6 HDi diesel engines are also fitted in Ford models
under Duratorq (TDCi) identification.

Timing belt replacement on these engines requires the use of 4
Locking Pins.

Remove the RH road wheel and inner wing cover. Move the electrical
harness away from the belt upper cover and remove auxiliary belt,
upper timing belt cover and the blanking plug in the bell housing
where Locking Pin 4735P16 is to be inserted.



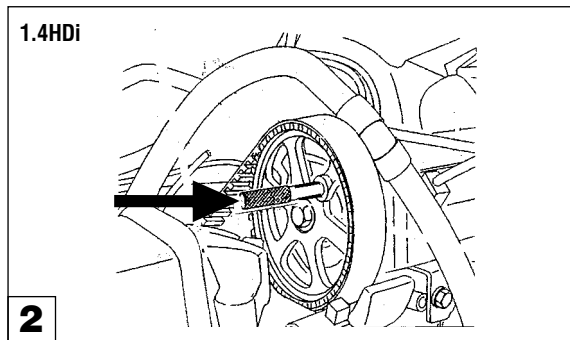
4735P16 Flywheel Locking Pin

Rotate the crankshaft until 4735P16 can be inserted into one of the
slots in the flywheel to 'lock' the engine.

Remove the crankshaft pulley, lower timing belt cover, crank position
sensor, (check that the magnetic track is not damaged) and belt guide
angle bracket.

WARNING Do not touch the magnetic track (sensor ring).

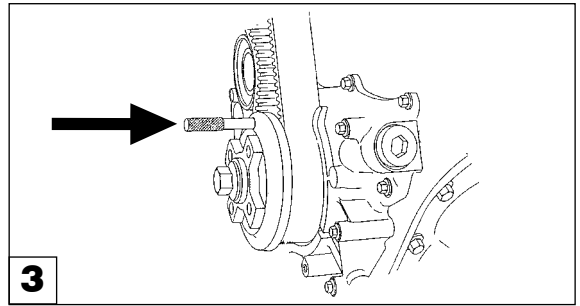
Re-fit the crankshaft pulley bolt (to facilitate engine turning),
and remove Locking Pin 4735P16.



4735P17 Camshaft Locking Pin

Turn the engine until the camshaft sprocket timing holes align,
and insert Locking Pin 4735P17.

Check that the crank keyway is in the 11-0'clock position and insert
Locking Pin 4735P15 to confirm correct crankshaft position.



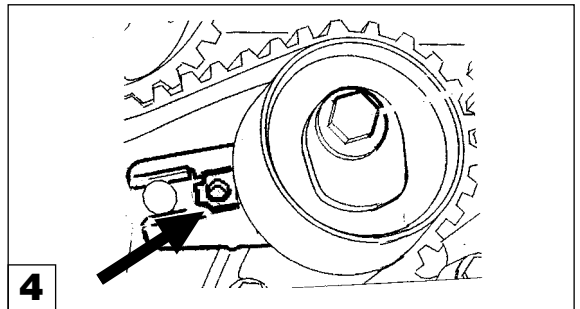
4735P15 Crankshaft and Fuel Pump Sprocket Locking Pins (2 in set)

Check that the crankshaft keyway is in the 11-0'clock position and
insert Locking Pin 4735P15 to confirm correct crankshaft position.

One of the 4735P15 Locking Pins is used to lock the crankshaft and
the other one locks the fuel pump sprocket. Check the fuel pump
alignment via holes in the pump sprocket. If there is not a corresponding
hole in the pump bracket to the hole in the sprocket, then align by
positioning the holes in the sprocket vertically.

Support the engine to allow removal of the RH engine mounting/bracket,
release the tensioner and remove the old timing belt.

Ensure the camshaft sprocket and crankshaft are locked in timing position
with Pins P17 and P15 respectively. Ensure the fuel pump is aligned
correctly.



Fit the new timing belt and install the engine mounting/bracket.

Apply tension to the belt by turning the tensioner **anti-clockwise** until
the pointer is positioned between the sides of the window.

Re-fit crank position sensor and belt guide angle bracket.

WARNING Do not touch the magnetic track (sensor ring).

Remove the Locking Pins.

Carefully rotate the crankshaft 10 times **clockwise**.

Check engine timing by ensuring that the camshaft and crankshaft
locking pins can be inserted and that the fuel pump sprocket is correctly
aligned.

Remove all Locking Pins and check the tensioner pointer is positioned
within the window.

Insert Locking Pin P16 into the flywheel and fit the crankshaft pulley using
a new centre bolt.