

### FORD COMPONENT SALES

# Ford 1.0L FOX 155ps MHEV Engine

#### **Technical Specifications**

Engine Type: 3-cyl., In-line, Dual **Overhead** Cam

Block / Head: Cast iron / Aluminium

Displacement (litres /cu in) 1.0L - 999cc (61.0)

Bore x Stroke (in): 71.9mm 82mm

Main Bearings: 4

Compression Ratio: 10.5:1

**Fuel Injection: Sequential Multiport Fuel Injection** 

Valve Operation: Direct Acting Mechanical Bucket (DAMB)

Power (HP @ RPM) 114 kW (155 PS) / 6000 rpm 118 kW (160 PS) / 5750 rpm

Toraue (lb.- t a RPM): 190 Nm / 1900 - 5500 rpm: 200 Nm / 2000 - 5500 rpm

Oil Capacity / Spec: 5.05 L (5.34 qt) SAE 5W-20

Weight (kg.): 105kg

Dimensions (mm) H x W x L: 65 x 60 x 65



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#### Key Features & Benefits

Cast iron engine block and cylinder head help contribute to low vehicle weight

Camshafts driven by timing chain, not belt, for more robustness

DOHC design uses four valves per cylinder improves engine breathing and performance

Direct Acting Mechanical Bucket (DAMB) valvetrain with polished buckets to reduce friction and improve fuel economy no adjustment needed throughout engine life (150,000 miles)

Sequential multi-port electronic fuel injection provides fuel at precisely the right moment for optimum performance

Coil-on-plug ignition system design replaces spark plug wires for high-mileage durability

Electronic throttle control, also known as "drive by wire" uses electronic sensors to operate the throttle

Gaseous Fuel Capable Option

Intake-Variable Cam Timing allows the camshafts to operate the intake valves at different times in the combustion cycle, based on speed and load. It adjusts the timing for maximum performance and efficiency

Composite intake manifold for improved airflow

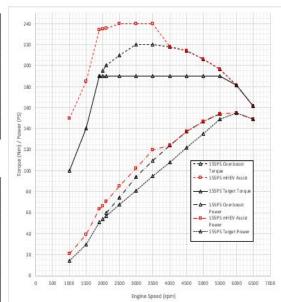
Fox Upgrade 155PS - Engine and Hybrid Performance
Fox Upgrade 1.0kr GTDI 10:1 "Note engine performance u

Note that all power is mechanical power at the crank

tr GTDI 10:1 "Note engine performance unchanged from C513/B473 and BX726 at launch



Engine Speed	BISG	Total	BISG	<b>OB</b> Powe
(rpm	(Nm)	(Nm)	(PS)	(PS)
1000	50	150	7.1	21.4
1500	45	185.3	9.7	39.6
1900	41	234.36	11.1	63.4
2000	41	234.47	11.7	66.8
2100	40	235.71	12.0	70.5
2500	30	240	10.7	85.4
3000	20	240	8.5	102.5
3500	20	240	10.0	119.6
4000	0	218	0.0	124.1
4500	0	214	0.0	137.
5000	0	206	0.0	146.6
5500	0	197	0.0	154.3
6000	0	181.4		155.0
6500 Fox Upgrade 1 EU6.2 155PS E	0 .0kr GTDI 10: 3X726 MCA	161.5 1	0.0	149.5
Fox Upgrade 1 EU6.2 155PS E 38Ron	.0ltr GTDI 10: 8X726 MCA	1		
Fox Upgrade 1 EU6.2 155PS E	.0ltr GTDI 10: 3X726 MCA Torque	1 Overboos	Power	OBPowe
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm	.0ltr GTDI 10: 8X726 MCA	1 Overboos		
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000	.0ltr GTDI 10: 3X726 MCA Torque	1 Overboos	Power (PS) 14.2	<u>OB Powe</u> (PS) 14.2
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000 1500	.0ltr GTDI 10: 3X726 MCA Torque (Nm)	1 Overboosi (Nm)	Power (PS)	<u>OB Powe</u> (PS) 14.2
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000 1500 1300	.0ltr GTDI 10: 3X726 MCA Torque (Nm) 100	1 Overboost (Nm) 100	Power (PS) 14.2	<u>OB Powe</u> (PS) 14.2 23.3
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000 1500 1900 2000	.0ltr GTDI 10: 3X726 MCA Torque (Nm) 100 140	1 <u>Overboost</u> (Nm) 100 140	Power (PS) 14.2 23.3	OB Powe (PS) 14.2 23.3 51.4
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000 1500 1500 2000 2100	.0ltr GTDI 10: 3X726 MCA Torque (Nm) 100 140 130	1 Overboost (Nm) 100 140 130	Power (PS) 14.2 23.3 51.4	OB Powe (PS) 14.2 29.5 51.4 55.5
Fox Upgrade 1 EU6.2 155PS E 36Ron Engine Speed (rpm 1000 1500 1900 2000 2100 2500	.0ltr GTDI 10: BX726 MCA (Nm) 100 140 130 130	1 (Nm) 100 140 130 135	Power (PS) 14.2 23.3 51.4 54.1	OB Powe (PS) 14.2 29.3 51.4 55.1 53.8
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000 1500 1500 2000 2100 2000 2100 2500 3000	.0kr GTDI 10: 3X726 MCA Torque (Nm) 100 140 130 130	1 (Nm) 100 140 130 135 200	Power (PS) 14.2 29.9 51.4 54.1 56.8	OB Powe (PS) 14.2 23.3 51.4 55.5 53.6 74.1 34.0
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1000 1500 1500 2000 2100 2100 2500 3500 3500	.0kr GTDI 10: BX726 MCA Torque (Nm) 100 140 190 190 190 190	1 (Nm) 100 140 135 200 210	Power (PS) 14.2 23.9 51.4 54.1 56.8 6.76	OB Powe (PS) 14.2 23.3 51.4 55.5 53.6 74.1 34.0
Fox Upgrade 1 EU6.2 155PS E 38Ron Engine Speed (rpm 1500 1500 1500 2000 2000 2000 2000 2500 3000 3500 4000	.0ltr GTDI 10: BX726 MCA (Nm) 100 140 190 190 190 190 190 190	1 (Nm) 100 140 195 200 210 220	Power (PS) 14.2 29.9 51.4 54.1 56.8 67.6 81.2	OB Powe (PS) 14.2 23.3 51.4 55.5 53.8 74.1 34.0 103.6
Fox Upgrade 1 EU6.2 155PS E 38Ron (rpm 1000 1500 1500 2000 2100 2500 3000 3500 4000 4500	.0ltr GTDI 10: 3X726 MCA (Nm) 100 140 130 130 130 130 130 130	1 (Nm) 100 140 195 200 210 220 220	Power (PS) 14.2 23.9 51.4 54.1 56.8 67.6 81.2 34.7	OB Powe
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Fox Upgrade 1 EU6.2 155PS E 38Ron (rpm 1000 1500 1500 2000 2100 2500 3000 3500 4000 4500	.0kr GTDI 10: 3X726 MCA (Nm) 100 130 130 130 130 130 130 130 130 130	1 (Nm) 100 140 130 200 210 220 218 214	Power (PS) 14.2 29.9 51.4 56.8 67.6 81.2 34.7 108.2 121.7	OB Power (PS) 14.2 23.3 51.4 55.5 53.8 74.1 34.0 103.6 124.4 137.





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