

GROUP 3E RECOGNITION FORM

A) Vehicle seen from 3/4 front



B) Vehicle seen from 3/4 rear



1. GENERAL

101. Manufacturer

FORD

102. Commercial name(s) - Model and type

MUSTANG FM

103. Engine capacity

4951 cm³ Corrected engine capacity **618.87 x 8 = 4951** cm³

104. Type of car construction

a) Type

<input type="checkbox"/> separate chassis	<input checked="" type="checkbox"/> monocoque
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b) Material of chassis / bodyshell

STEEL

106. Number of seats

5

2. DIMENSIONS, WEIGHT

201. Tare Weight

1701 kg RVD CPA Number. **47158-1153175**

Minimum Racing Weight

1632 kg

202. Overall length

4784 mm +/- 1 %

203. Maximum overall width

1916mm +/- 1 % Where measured **REAR AXLE CENTRELINE**

204. Width of bodywork

a) At front axle **1597**mm +/- 1 %

b) At rear axle **1658**mm +/- 1 %

Make **Ford**Model **Mustang FM**

205. Minimum height centre hub / Wheel arch opening

a) Front **376**mm b) Rear **357**mm206. Wheelbase **2720**mm +/- 1%

207. Maximum track

a) Front **1657**mm b) Rear **1698**mm

209. Overhang

a) Front **1132**mm +/- 1% b) Rear **932**mm +/- 1%

3. ENGINE (In case of rotary engine, see Art. 335 on additional form)

301. Location and position of the engine **FRONT**302. Number of mounts **2**

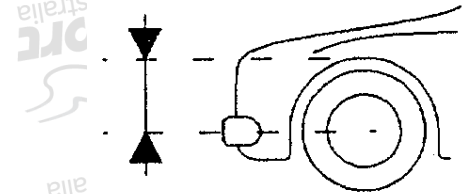
C) Right hand view of dismantled engine



D) Left hand of dismantled engine



E) Engine in its compartment



Make **Ford**Model **Mustang FM**

304. Supercharging

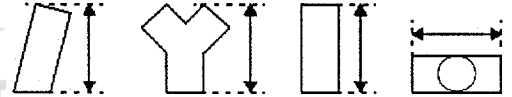
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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(In case of supercharging, see Art. 334 on additional form)

Type and number of compressors

Normally Aspirated

305. Number and layout of cylinders

V8

312. Cylinder block material

ALLUMINIUM

306. Type of cooling

WATER

307. Cylinder capacity

a) Single cylinder/Chamber

618.61 cm³

b) Total

4948.9 cm³

308. Total minimum volume of a combustion chamber

675.6 cm³

(Chamber + swept volume ABC)

309. Minimum volume of a combustion chamber in the cylinder head

57 cm³ (Chamber ATC)

310. Maximum compression ratio (in relation with the unit)

12:1:1

311. Minimum height of the cylinder block

227 mm

313. Sleeves

a)



yes



no

b) **CAST IRON** c)

wet



dry

314. Bore

92.9 +/- 0.1 mm

315. Maximum bore allowed

mm

316. Stroke

92.7 +/- 0.1 mm

317. Piston

a) Material

ALUMINIUM

b) Number of rings

3

c) Minimum weight

360 g

d) Distance from gudgeon pin centre line to highest point of piston crown

29.87

+/- 0.1 mm

e) Distance (+/-) between the top of the piston ATC and the gasket plane of the cylinder block

0

+/- 0.15 mm

f) Piston crown relief/dome volume

2 +/- 0.5 cm³

(Show dome as negative)

AA) Piston

318. Connecting rod

a) Material

STEEL

b)

Big end type

2 PIECE BEARING

c) Interior diameter of the big end (without shell bearings)

56.88 mm

+0.1/- 0 mm

d) Length between the axes

150.67 +/- 0.1 mm

e)

Minimum weight

610 g

E1) Connecting rod seen from 3/4 (with marking)

Make **Ford**

Model Mustang FM

319. Crankshaft

a) Type of manufacture **SINGLE** (Single or multi piece)

b) Material

c)

 cast forged

d) Number of bearings

e) Type of bearings

2 PIECE

f)

Diameter of bearings

67.58mm +/- 0.25 mm

g) Bearing caps material

STEEL

h)

Minimum weight of bare crankshaft

2500 g +/- 400.0gi) Diameter of crank pins **50.4** mm +/- 0.25 mm

320. Flywheel

a) Material

STEEL

b) Minimum weight with starter ring

1010 g

321. Cylinderhead

a) Number

2

b) Material

ALUMINIUM

c) Minimum height

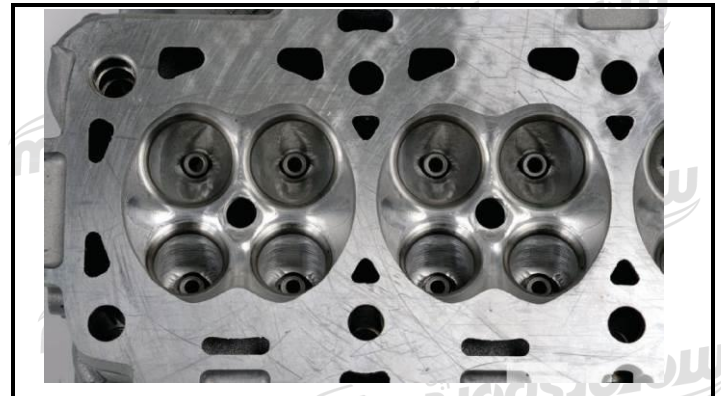
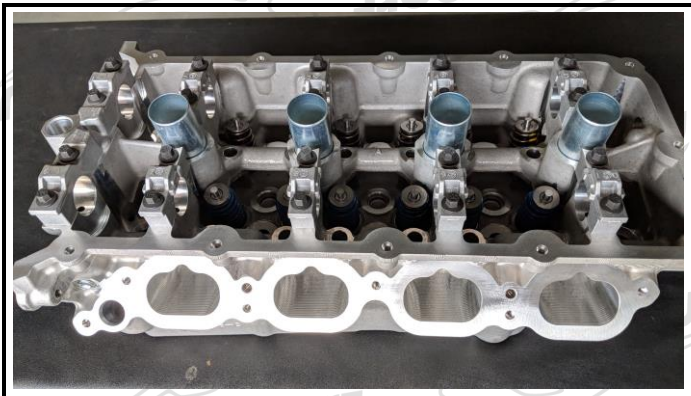
N/A mmd)

Where measured

N/A

F) Bare cylinderhead

G) Combustion chamber



323. Fuel feed by carburettor

a) Number of carburetors **NILL**

b) Type

N/A

c) Make and model

d) Number venturis per carburettor

e) Maximum diameter of the carburettor throttle ports

_____ mm

f) Diameter of the venturi at the narrowest point

_____ +/- 0.25 mm

324. Fuel feed by injection :

a) Make

b) Model

c) Type of fuel measurement :

 mechanical electronic hydraulic

d) Dimensions of intake duct at the throttle or slide location

80 +/- 0.25 mm

e) Number of effective fuel outlets

8

f) Position of injectors

f1) Manifold Cylinderhead

g) Sensors of injection system

Make **Ford**Model **Mustang FM**

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ENGINE TEMP, MAP ,CAM POSITION (4) CRANK POSITION (1) THROTTLE POSITION DRIVER(2)**AIR TEMP, LAMBDA(2), FUEL PRES., THROTTLE POSITION ENGINE (2)**

h) Actuators of injection system

THROTTLE STEPPER, INJECTORS(8)

325. Camshaft	a) Number	4	b) Location	<u>DOHC</u>
	c) Drive system	<u>VCT-CHAINS</u>	d) Number of bearings per shaft	<u>NIL</u>
	e) Diameter of bearings	_____ mm	f) Type of valve operation	<u>ROCKER</u>

327. Intake

a) Material of manifold	<u>PLASTIC</u>	c) Number of valves per cylinder	<u>2</u>
b) Number of manifold elements	<u>8</u>	e) Diameter of the valve stem in guide	<u>6</u> +0/-0.2 mm
d) Maximum diameter of the valve	<u>38</u> mm	g) Type of valve springs	<u>COIL</u>
f) Valve length	<u>119</u> +/- 1.5 mm	h) Number of springs per valve	<u>1</u>
k) External diameter of the springs	_____ +/- 0.2 mm	l) Number of spring coils	_____
m) Diameter of spring wire	_____ +/- 0.1 mm	n) Max.free length of the springs	_____ mm

328. Exhaust

a) Material of manifold	<u>STEEL</u>	c) Internal dimensions of manifold exit	_____ mm
b) Number of manifold elements	<u>8</u>	e) Maximum diameter of the valve	<u>32</u> mm
d) Number of valves per cylinder	<u>2</u>	g) Valve length	<u>108</u> +/- 1.5 mm
f) Diameter of the valve stem in guide	<u>6</u> +0/-0.2 mm	h) Type of valve springs	<u>COIL</u>
i) Number of springs per valve	<u>1</u>	m) Number of spring coils	_____
l) External diameter of the springs	_____ +/- 0.2 mm	o) Max. free length of the springs	_____ mm
n) Diameter of spring wire	_____ +/- 0.1 mm	p) Diameter of exhaust pipe between manifold and first silencer	<u>44MM</u> mm +/- 5%
j) Intake manifold		J) Exhaust manifold	

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BB) Complete exhaust system removed from vehicle (not including manifold)

**330. Ignition system**

- a) Type **COIL ON PLUG** b) Number of plugs per cylinder **1**
 c) Number of distributors **NIL** d) Number of coils **8**

331. Cooling systemCapacity **15LT** l**332. Cooling fan**

- a) Number **2** b) Diameter of the fan **400** mm
 c) Material of the fan **PLASTIC** d) Number of blades **4**
 e) Type of drive **DC ENGINE** f) Automatic cut in yes no

333. Lubrication system

- a) Type **WET SUMP** b) Number of oil pumps **1**

c) Total capacity **9** L

- d) Oil cooler(s) Yes no Number **2**

e) Location of the cooler(s) **BEFORE RADIATOR** f) Type of the cooler(s) **AIR / WATER - OIL**

4. FUEL CIRCUIT**401. Fuel tank**

- a) Number **1**

Make **Ford**

Model **Mustang FM**

- b) Location **BOOT**
- d) Total capacity **61 L**
- e) Filler hole locations **LH REAR QUARTER PANEL**

402. Fuel pump(s) a) Elelectrical Mechanical b) Number **1**

c) Make and type **PREMIER** d) Location **COLLECTOR POT - BOOT**

5. ELECTRICAL EQUIPMENT

502. Generator a) Number **1** b) Type **DYNAMO**
 c) Drive system **BELT** d) Nominal power **180** Amp

503. Retractable headlights a) yes no b) Control system _____

6. POWER TRAIN

601. Driven wheels front yes no rear yes no

602. Clutch a) Type **SINGLE PLATE - FRICTION**

CC) Clutch S) Gearbox casing and clutch bell housing



b) Control system **HYDRAULIC**
 c) Number of plates **SINGLE** d) Diameter of the plate(s) **265**+/- 2 mm

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Make **Ford**

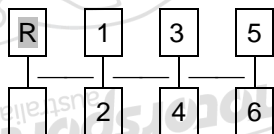
Model **Mustang FM**

603. Gearbox

- a) Location **CENTRAL**
- b) Make **GETRAG**
- c) Type and location of control **STICK - CABIN**
- e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	3.66	_____	YES
2	_____	2.43	_____	YES
3	_____	1.69	_____	YES
4	_____	1.32	_____	YES
5	_____	1	YES	_____
6	_____	.65	_____	YES
R	_____	4	_____	NIL
Constant	_____	1	_____	_____

f) Gear change gate



g) Type of lubrication

h) Oil cooler

yes no

Type **OIL TO AIR**

604. Transfer box / Centre differential

- a) Ratios _____
- b) Number of teeth _____
- c) Control system of transfer box _____
- d) Type of central differential _____
- e) Torque distribution e1) Front _____ % Rear _____ % e2) Number of teeth _____
- f) Type of central differential limitation _____

605. Final drive

- a) Type of final drive
- b) Ratio
- c) Number of teeth
- d) Type of differential limitation
- e) Type of lubrication
- f) Oil cooler

	Front	Rear
a) Type of final drive	N/A	CWP
b) Ratio	N/A	3.73.1
c) Number of teeth	N/A	_____
d) Type of differential limitation	N/A	RAMP AND PLATE LSD
e) Type of lubrication	N/A	WET
f) Oil cooler	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no



Make **Ford**

Model **Mustang FM**

g) Cooler Type

	OIL TO AIR
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Make **Ford**

Model Mustang FM

606. Shafts
- a) Type of longitudinal shafts
 - b) Material of longitudinal shafts
 - c) Type of transversal half-shafts
 - d) Material of transversal half-shafts

HOLLOW**STEEL****SOLID****STEEL****XII) KINEMATIC TRAIN (4 wheel drive)**

Make **Ford**Model **Mustang FM****7. SUSPENSION****701. General**

a) Type of suspension

	Front		Rear	
	MACPHERSON STRUT		DOUBLE A-ARM	
702. Helical springs	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
a) Material	Steel		steel	
703. Leaf springs	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
a) Material of main leaf	_____		_____	
Material of 2nd leaf	_____		_____	
Material of 3rd leaf	_____		_____	
Material of 4th leaf	_____		_____	
Material of 5th leaf	_____		_____	
Material of auxiliary leaf	_____		_____	
704. Torsion bars	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
a) Material	_____		_____	

705. Other type of suspension

See description on additional form

706. Stabiliser

a) Effective length

b) Effective diameter

c) Material

	Front	Rear
a) Effective length	1600 mm +/- 1%	1500 mm +/- 1%
b) Effective diameter	35 mm	20 mm
c) Material	STEEL	STEEL

XI) Drawing or photo of front stabiliser



XI) Drawing or photo of rear stabiliser



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Model **Mustang FM**

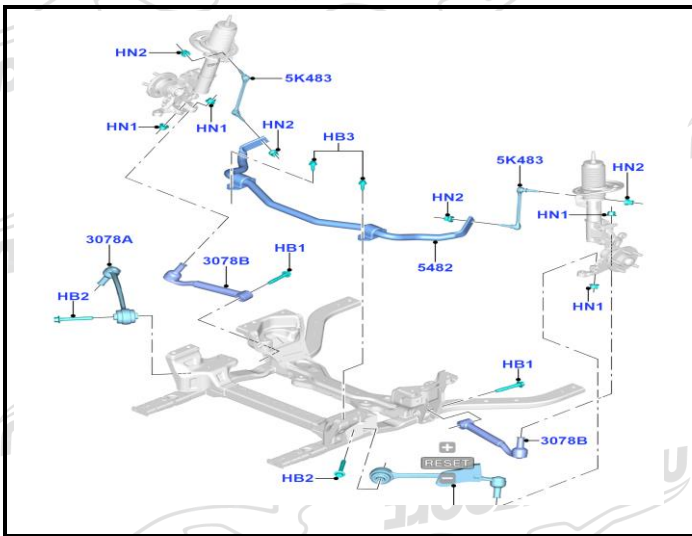
707. Suspension Dampers

- a) Number per wheel
- b) Type
- c) Principle of operation

Front	Rear
<u>1</u>	<u>1</u>
<u>HYDRAULIC - TELESCOPIC</u>	<u>HYDRAULIC - TELESCOPIC</u>
<u>HYDRAULIC</u>	<u>HYDRAULIC</u>

T) Complete dismantled front axle

U) Complete dismantled rear axle



8. WHEELS

801. Wheels

a) Diameter

Front	Rear
<u>19"</u>	<u>19"</u>
or	or
_____ mm	_____ mm

b) Width

Front	Rear
<u>9"</u>	<u>9.5"</u>
or	or
_____ mm	_____ mm

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803. Brakes

a) Braking system

SERVO HYDRAULIC

b) Number of master cylinders

1

b1) Bores _____ mm / _____ mm

c) Servo-brakes

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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c1) Make and type **FORD**

d) Braking regulator

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
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d1) Location **FRONT BULKHEAD**

D2) Active

<input type="checkbox"/> yes	<input type="checkbox"/> no
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	Front	Rear
e) Number of cylinders per wheel	6	2
e1) Bore/s	_____ mm x _____ mm	_____ mm x _____ mm
f) Drum brakes		
f1) Internal diameter	_____ +/- 1.5 mm	_____ +/- 1.5 mm
f2) Number of linings per wheel	_____	_____
f3) Developed length of linings	_____ +/- 1.5 mm	_____ +/- 1.5 mm
f4) Width of linings	_____ +/- 1 mm	_____ +/- 1 mm
g) Disc brakes		
g1) Number of pads per wheel	2	2
g2) Number of calipers per wheel	1	1
g3) Caliper material	Alluminium	Alluminium
g4) Thickness of new disc	34 +/- 1 mm	25 +/- 1 mm
g5) External diameter of the disc	380 +/- 1.5 mm	330 +/- 1.5 mm
g6) External diameter of pads' rubbing surface	380 +/- 1.5 mm	330 +/- 1.5 mm
g7) Internal diameter of pads' rubbing surface	256 +/- 1.5 mm	222 +/- 1.5 mm
g8) Overall length of the pads	170 +/- 1.5 mm	132 +/- 1.5 mm
g9) Ventilated discs	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

h) Parking brake

h1) Control system

LEVER

h2) Location of lever

CABIN

h3) On which wheels

<input type="checkbox"/> Front	<input checked="" type="checkbox"/> Rear
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804. Steering

a) Type

Front		Rear	
RACK AND PINION		NIL	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
ELECTRO MECHANICAL		_____	

b) Servo-assistance

Type of Assistance

9. BODYWORK

901. Interior

a) Ventilation

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no

b) Heating

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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f) Optional sun roof

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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f1) Type _____

f2) Control system _____

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Front	Rear
<u>ELECTRICAL</u>	<u>FIXED</u>

g) Opening system for side windows

X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **2**

b) Tailgate

<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
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Front	Rear
<u>STEEL</u>	<u>N/A</u>

c) Door material

d) Front bonnet material

f) Bodywork material

h) Rear window material

STEEL

STEEL / ALLUMINIUM

GLASS

e) Rear bootlid / tailgate material

STEEL

i) Rear quarter window material

POLYCARBONATE

k) Side window material

l) Material of bumper

n) Exterior Rear wiper

Front	Rear
<u>GLASS</u>	<u>GLASS</u>
<u>PLASTIC</u>	<u>PLASTIC</u>
<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no

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XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
various	Front Bumper bar cover	Plastic
various	Rear bumper bar cover	Plastic

Drawing / photo required

Make **Ford**

Model **Mustang FM**

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COMPLEMENTARY INFORMATION

ERRATA:

Version 3-19-007B

Update vehicle weight and added RVD number

Corrected 324. d) to 80mm