

CAMS 3E RECOGNITION FORM

Homologation valid as from **01-01-2019**

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 FN BULLITT

103. Engine capacity

5038 cm³ Corrected engine capacity **629.75** x **8** = **5038** cm³

104. Type of car construction

a) Type

<input type="checkbox"/> separate chassis	<input checked="" type="checkbox"/> monocoque
-------------------------------------------	-----------------------------------------------

b) Material of chassis / bodyshell **STEEL**

106. Number of seats

5

2. DIMENSIONS, WEIGHT

201. Minimum Weight

1626 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 FN Bullitt**

205. Minimum height centre hub / Wheel arch opening

a) Front **376**mm b) Rear **357**mm

206. 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**

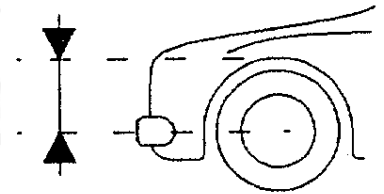
C) Right hand view of dismantled engine



D) Left hand view of dismantled engine



E) Engine in its compartment



Make **Ford** Model **Mustang FN Bullitt**

3-20-007

304. Supercharging

yes no

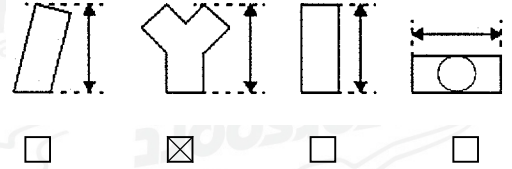
(In case of supercharging, see Art. 334 on additional form)

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 **5038** cm³

308. Total minimum volume of a combustion chamber

686.7 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

93MM +/- 0.1 mm

315. Maximum bore allowed **93.05** mm

316. Stroke

92.7 +/- 0.1 mm

317. Piston

a) Material **ALLUMINIUM**

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 **-2.5** +/- 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 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 FN Bullitt**

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 +/- 400.0g

i) Diameter of crank pins **50.4** mm +/- 0.25 mm

320. Flywheel

a) Material

STEEL

b) Minimum weight with starter ring

N/A g

321. Cylinderhead

a) Number

2

b) Material

ALLUMINIUM

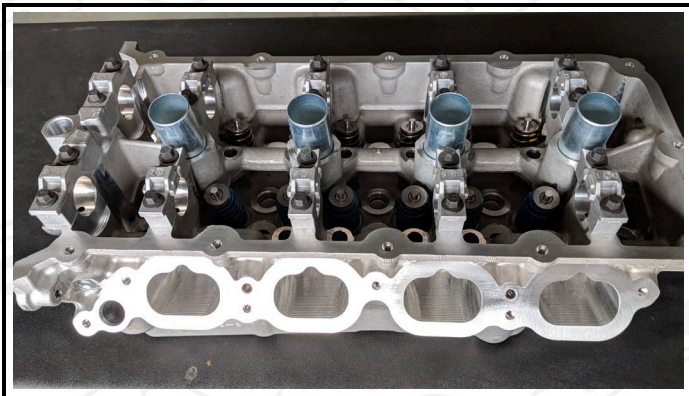
c) Minimum height

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

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 **87** +/- 0.25 mm

e) Number of effective fuel outlets **16**

f) Position of injectors

f1) Manifold Cylinderhead

g) Sensors of injection system

ENGINE TEMP, MAP ,CAM POSITION (4) CRANK POSITION (1) THROTTLE POSITION DRIVER(2)

AIR TEMP, LAMBDA(2), FUEL PRES., THROTTLE POSITION ENGINE (2), FUEL PRESSURE X 2

Make **Ford** Model Mustang FN Bullitt

h) Actuators of injection system

THROTTLE STEPPER, INJECTORS(16)

325. **Camshaft** a) Number **4** b) Location

c) Drive system **VCT-CHAINS** d) Number of bearings per shaft

e) Diameter of bearings **N/A** mm f) Type of valve operation

DOHC

NIL

ROCKER

327. Intake

a) Material of manifold **PLASTIC**

b) Number of manifold elements **8**

d) Maximum diameter of the valve **37.7** mm

f) Valve length **119** +/- 1.5 mm

h) Number of springs per valve **1**

k) External diameter of the springs **32** +/- 0.2 mm

m) Diameter of spring wire **3.55** +/- 0.1 mm

c) Number of valves per cylinder **2**

e) Diameter of the valve stem in guide **6** +0/-0.2 mm

g) Type of valve springs **COIL**

l) Number of spring coils **10**

n) Max.free length of the springs **55.2** mm

328. Exhaust

a) Material of manifold **STEEL**

b) Number of manifold elements **8**

d) Number of valves per cylinder **2**

f) Diameter of the valve stem in guide **6**+0/-0.2 mm

h) Type of valve springs **COIL**

i) Number of springs per valve **1**

l) External diameter of the springs **32** +/- 0.2 mm m)

n) Diameter of spring wire **3.55** +/- 0.1 mm o)

p) Diameter of exhaust pipe between manifold and first silencer

c) Internal dimensions of manifold exit **N/A** mm

e) Maximum diameter of the valve **32** mm

g) Valve length **108**+/- 1.5 mm

m) Number of spring coils **10**

o) Max. free length of the springs **55.2** mm

44MM mm +/- 5%

Make **Ford** Model **Mustang FN Bullitt**

I) Intake manifold



J) Exhaust manifold



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 system

Capacity **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
 e) Type of drive **DC ENGINE** f) Automatic cut in

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

333. Lubrication system

- a) Type **WET SUMP** b) Number of oil pumps **1**
 c) Total capacity **9** L
 d) Oil cooler(s)

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> no
-----------------------------------------	-----------------------------

 Number **2**
 e) Location of the cooler(s) **BEFORE RADIATOR** f) Type of the cooler(s) **AIR / WATER - OIL**

Make **Ford** Model **Mustang FN Bullitt**

4. FUEL CIRCUIT

401. Fuel tank

- a) Number **1**
 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 **2**

- c) Make and type **FORD** d) Location **INTANK (LP) CAMSHAFT DRIVE (HP)**

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

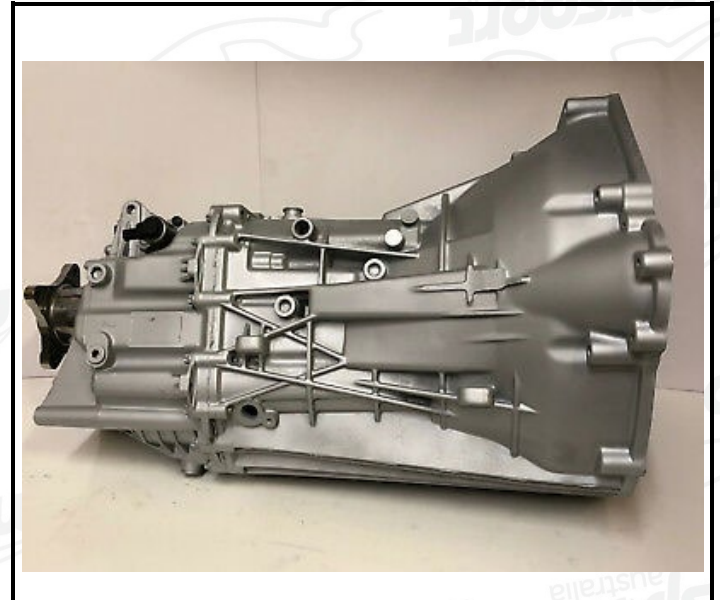
- front yes no rear yes no

602. Clutch

- a) Type **TWIN PLATE - FRICTION**

CC) Clutch

- S) Gearbox casing and clutch bell housing



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

Make **Ford**Model **Mustang FN Bullitt****603. Gearbox**a) Location **CENTRAL**b) Make **GETRAG**

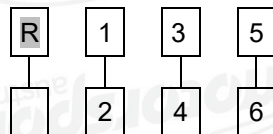
c) Type and location of control

STICK - CABIN

e) Ratios

	Number of teeth	Ratio	Constant Mesh	Synchro
1	_____	<u>3.237</u>	_____	<u>YES</u>
2	_____	<u>2.104</u>	_____	<u>YES</u>
3	_____	<u>1.422</u>	_____	<u>YES</u>
4	_____	<u>1.0</u>	_____	<u>YES</u>
5	_____	<u>.814</u>	_____	_____
6	_____	<u>.622</u>	_____	<u>YES</u>
R	_____	<u>4</u>	_____	<u>NIL</u>
Constant	_____	<u>1</u>	_____	_____

f) Gear change gate



g) Type of lubrication

h) Oil cooler

<input checked="" type="checkbox"/> yes	<input type="checkbox"/> 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

N/A

b) Ratio

N/A

c) Number of teeth

N/A

d) Type of differential limitation

N/A

e) Type of lubrication

N/A

f) Oil cooler

 yes no yes no

g) Cooler Type

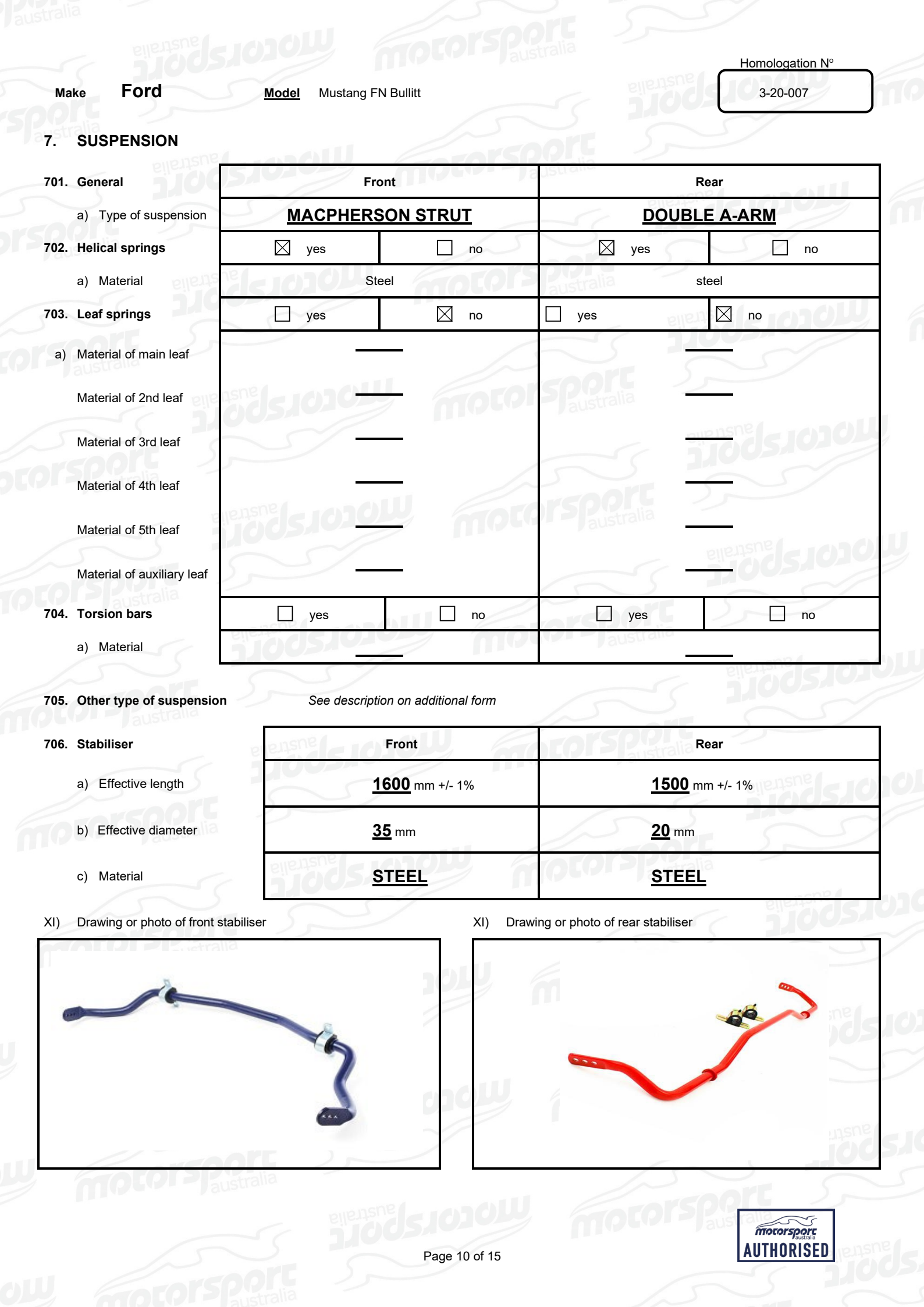
OIL TO AIR

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

Make **Ford** Model Mustang FN Bullitt

606. Shafts
- | | | |
|----|-------------------------------------|---------------|
| a) | Type of longitudinal shafts | <u>HOLLOW</u> |
| b) | Material of longitudinal shafts | <u>STEEL</u> |
| c) | Type of transversal half-shafts | <u>SOLID</u> |
| d) | Material of transversal half-shafts | <u>STEEL</u> |

XII) KINEMATIC TRAIN (4 wheel drive)



Make **Ford**

Model **Mustang FN Bullitt**

7. SUSPENSION

701. General

	Front		Rear	
a) Type of suspension	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

	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



Make Ford

Model Mustang FN Bullitt

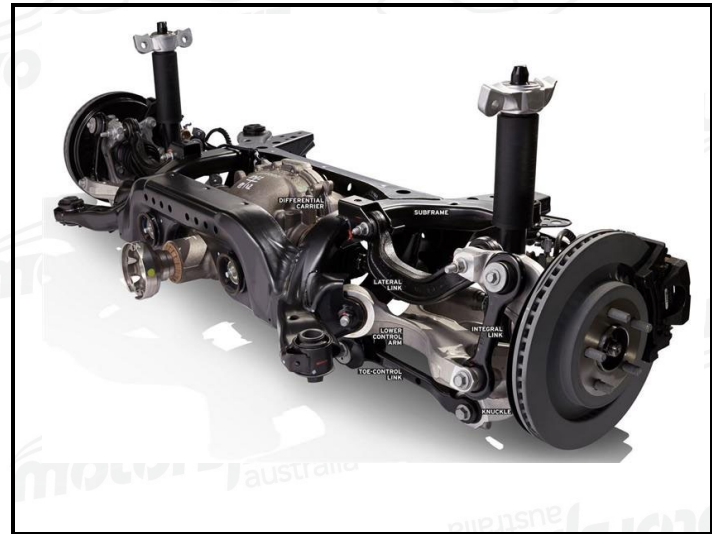
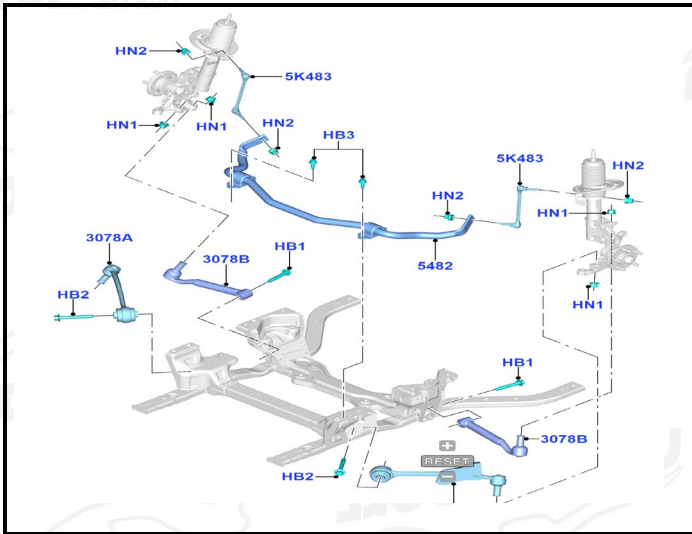
707. Suspension Dampers

- 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

Front	Rear
<u>19"</u>	<u>19"</u>
or	or
_____ mm	_____ mm
<u>9.0"</u>	<u>9.5"</u>
or	or
_____ mm	_____ mm

a) Diameter

b) Width

Make **Ford**

Model **Mustang FN Bullitt**

803. Brakes

- a) Braking system
- b) Number of master cylinders
- c) Servo-brakes
- d) Braking regulator
- D2) Active

SERVO HYDRAULIC

1

b1) Bores _____ mm / _____ mm

yes no

c1) Make and type **FORD**

yes no

d1) Location **FRONT BULKHEAD**

yes no

	Front	Rear
e) Number of cylinders per wheel	<u>6</u>	<u>2</u>
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	<u>2</u>	<u>2</u>
g2) Number of calipers per wheel	<u>1</u>	<u>1</u>
g3) Caliper material	Alluminium	Alluminium
g4) Thickness of new disc	<u>34</u> +/- 1 mm	<u>25</u> +/- 1 mm
g5) External diameter of the disc	<u>380</u> +/- 1.5 mm	<u>330</u> +/- 1.5 mm
g6) External diameter of pads' rubbing surface	<u>380</u> +/- 1.5 mm	<u>330</u> +/- 1.5 mm
g7) Internal diameter of pads' rubbing surface	<u>256</u> +/- 1.5 mm	<u>222</u> +/- 1.5 mm
g8) Overall length of the pads	<u>170</u> +/- 1.5 mm	<u>132</u> +/- 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

Front Rear

804. Steering

- a) Type
- b) Servo-assistance
- Type of Assistance

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

9. BODYWORK

901. Interior

- a) Ventilation
- c) Air Conditioning

yes no
 yes no

b) Heating

yes no

f) Optional sun roof

yes no

f1) Type _____

f2) Control system _____

Make **Ford**

Model **Mustang FN Bullitt**

Homologation N°

3-20-007

g) Opening system for side windows

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

X) Dashboard



Y) Sunroof



902. Exterior

a) Number of doors **2**

b) Tailgate

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

c) Door material

Front	Rear
<u>STEEL</u>	<u>N/A</u>

d) Front bonnet material

STEEL

e) Rear bootlid / tailgate material

STEEL

f) Bodywork material

STEEL / ALLUMINIUM

h) Rear window material

GLASS

i) Rear quarter window material

POLYCARBONATE

k) Side window material

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

l) Material of bumper

n) Exterior Rear wiper

Make **Ford**

Model **Mustang FN Bullitt**

Homologation N°

3-20-007

XIII) NON METALLIC PARTS OF THE BODY

Number	Part	Material
various	Front Bumper bar cover	Plastic
various	Rear bumper bar cover	Plastic
VFR3Z9944210AA	Rear Deck Fin	Plastic composite

Drawing / photo required

Make **Ford**

Model Mustang FN Bullitt

3-20-007

COMPLEMENTARY INFORMATION

Fastback CDC Decklid – Factory option VFR3Z9944210AA

