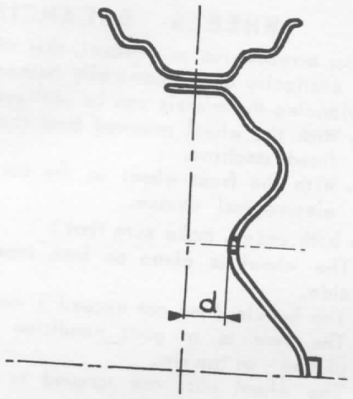
10 - WHEELS AND TYRES



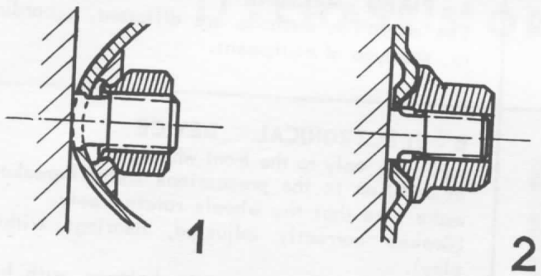
TECHNICAL DESCRIPTION

WHEELS AND TYRES

I - Wheels : 155 × 380

Characteristics :

Rim 4 1/2 J 15
Number of fixation holes : 3
Holes drilling circumference dia. 160 mm
Dishing : d = 30 mm
Max. permissible buckle : 3 mm.



Wheels fixation :

1 - MICHELIN fixation
2 - DUNLOP fixation.

Wheel nuts torque : **43.3 ft/lbs.**

II - Tyres : 165 × 380

(The tyres pressures are meant with fully loaded car)

Type of the car	Make and type of tyres	Pressure (p.s.i.)	
		FRONT	REAR
404	Michelin S.D.S. Dunlop D.S. Kleber Colombes S 75	20	23
	Michelin X Dunlop S Kleber-Colombes V 10	20 25 23	23 29 25

NOTE - Some tyres manufacturers suggest variable pressures, according to the load and use of the vehicle.
Unless these load and particular use are constant, we do not advise such method which obliges the user to alter the pressures frequently, which frequent change is difficult to operate and is liable to be overlooked.

- Pressures indicated are measured on cold wheels.
- The spare wheel will be inflated at the same pressure that the rear wheel.

WHEELS BALANCING

After a repair job on a wheel, this wheel should be statically and dynamically balanced.
Balancing the wheels can be realized :

a - With the wheel removed from the car : on a fixed machine.

b - With the **front** wheel on the car : using an electronical device.

In both cases, make sure that :

- The wheel is clean on both inner and outer side.
- The buckle does not exceed 3 mm.
- The tyre is in good condition and properly placed on the rim.
- The wheel nuts are **torqued to 43.3 ft/lbs.**

A - FIXED MACHINE

The operation methods are different, according to the type of equipment.

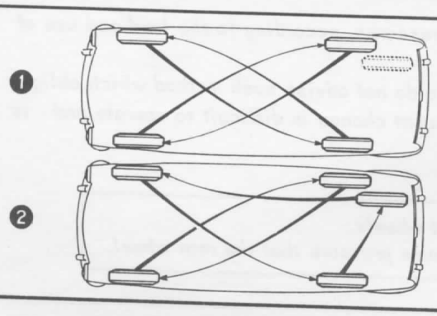
B - ELECTRONICAL DEVICE

Applying only to the front wheels
In addition to the precautions listed hereabove make sure that the wheels rotate freely.
(Brakes correctly adjusted, bearings without play).
This apparatus permits to balance with high precision the assy.wheel, trim, hub and drum.
It is adviseable to follow the manufacturers' recommendations for use. However, with any type of electronical balancer, it is better to :

1 - Realise the statical and dynamical balance in one only operation, by orienting the finder at 45°.

2 - Following the out of balance :
Less than 40 gr. at the rim : place the balancing weight on the outside.
Over 40 grs : divide the weight between both sides of the wheel.

NOTE - The weight placed on the outside of the wheel cancels the corresponding statical and dynamical effects.
The weight placed on the inside cancels the corresponding statical effects.



Wheels switching over
Every 6000 km the wheels can be switched over, following either of two methods :
1 - Four wheels.
2 - Five wheels.
After this operation, it is imperative to check the tyres pressure and wheels balance.

10 - ROAD WHEELS AND TYRES

TYRE INFLATING PRESSURE - ALL TYPES OF 404s

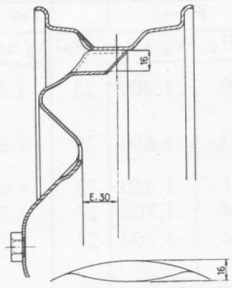
Type	Body work	Size	Make	Pressure			
				Front		Rear	
				Psi	kg/sq.cm	Psi	kg/sq.cm
404 404 KF 404 KF 1	Saloon	165 × 380 165 × 380 X 165 × 380 SP	Standard - All makes MICHELIN DUNLOP	20	1.400	23	1.600
		165 × 380 V 10	KLEBER COLOMBES	23	1.600	26	1.800
404 KF 2		165 × 380 XA 2*	MICHELIN	21	1.450	23	1.600
		165 × 380 SP Sport*	DUNLOP	24	1.700	27	1.900
		165 × 380 V 10 GV*	KLEBER COLOMBES	24	1.700	27	1.900
404 DA 404 D	Saloon	165 × 380 165 × 380 X 165 × 380 SP 165 × 380 V 10	Standard - All makes MICHELIN DUNLOP KLEBER COLOMBES	21.5 21.5 24 24	1.500 1.500 1.700 1.700	23 23 27 26	1.600 1.600 1.900 1.800
404 L	Family car	165 × 380 X 185 × 380 X	MICHELIN	20 26	1.400 1.800	31 34	2.200 2.400
404 LD		165 × 380 X 185 × 380 X	MICHELIN	21.5 26	1.500 1.800	31 34	2.200 2.400
404 U6 404 Break	Utility car	165 × 380 165 × 380 X 185 × 380 V 10 185 × 380 X	Standard reinforced - All makes MICHELIN KLEBER COLOMBES MICHELIN	23 20 26	1.600 1.400 1.800	36 31 37	2.500 2.200 2.600
404 U6D		165 × 380 C 165 × 380 X 185 × 380 X	Standard reinforced - All makes MICHELIN	24 21.5 23	1.700 1.500 1.600	36 31 33	2.500 2.200 2.300
404 C 404 CKF	Cabriolet & Coupé	165 × 380 X	MICHELIN	20 22	1.400(1) 1.550(2)	21.5 23	1.500(1) 1.600(2)
		165 × 380 V 10	KLEBER COLOMBES	23 24	1.600(1) 1.700(2)	24 27	1.700(1) 1.900(2)
		165 × 380 XA 2*	MICHELIN	21	1.450	22	1.550
		165 × 380 SP Sport*	DUNLOP	24	1.700	26	1.800
		165 × 380 V 10 GV*	KLEBER COLOMBES	24	1.700	27	1.900

* Special "high speed" tyres. 404 s with XC.KF 2 engines must be equipped exclusively with this type of tyres.

On MICHELIN XA 2 tyres, one side is marked "côté extérieur" (outer side) ; this mounting indication MUST BE respected. (1) Normal driving
(2) High speed driving

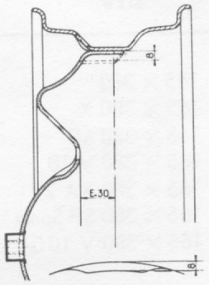
MICHELIN WHEELS

1st installation



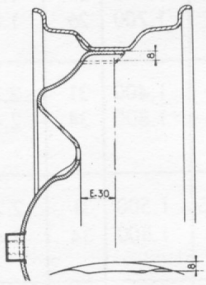
4 ½ J.15 - 3.30 E
P/N 5403.21
With 16-mm chain passage
With welded trim (hub cap) attachment nut.

2nd installation (April, 1962)



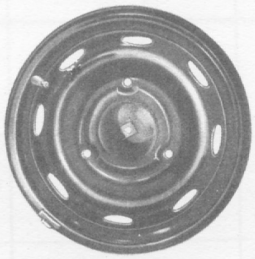
4 ½ J.15 - 3.30 E
P/N 5403.23
With 8-mm chain passage.
With trim (hub cap) attachment nut in nut cage.
Max. torque of trim (hub cap) attachment screw : 3 m.kg (21.7 ft.lbs).

3rd installation



4 ½ J.15 - AL. 3.30.E
P/N 5403.27
Lightened wheel.
With 8-mm chain passage.

4th installation
(for cars with temperature-compensated brakes)



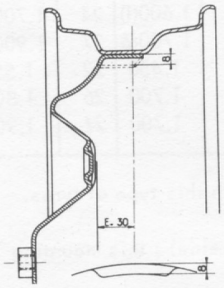
4 ½ J.15AL.BM.3.30. V
P/N 5403.29
Without chain passage.
Perforated disc-type wheel.

INTERCHANGEABILITY :

First model wheels cannot be installed on 280-mm dia. drums, Second, third, and fourth model wheels may be used to replace 1st model wheels. Perforated-disc wheels must be used for cars equipped with temperature-compensated brakes to ensure proper cooling of the brake drums.

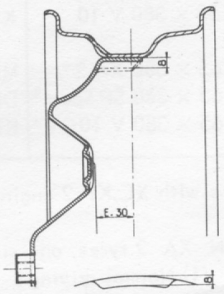
DUNLOP WHEELS

Earlier installation



P/N 5403.22
With welded trim (hub cap) attachment nut.

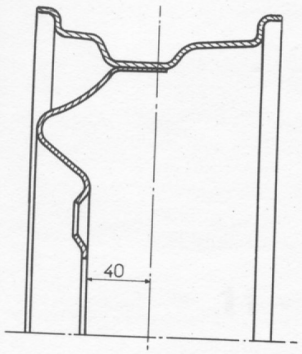
Later installation (May, 1962)



P/N 5403.24
With trim (hub cap) attachment nut in nut cage.
Max. torque of trim (hub cap) attachment screw : 3 m.kg (21.7 ft.lbs).

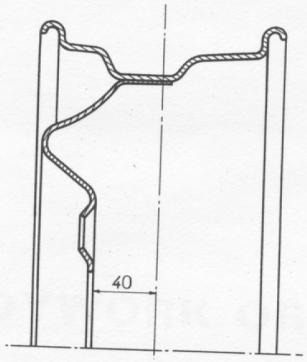
MICHELIN WHEELS

1st installation



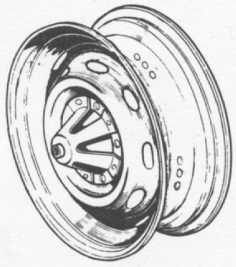
5J.15.5.40 wheel
with flat flange
P/N 5403.16

2nd installation



5J.15.A5.40 wheel
with rolled flange
P/N 5403.16 (unchanged)

3rd installation
Cars with temperature-compensated brakes



5J.15.A5.40.V wheel
with perforated disc
P/N 5403.30

INTERCHANGEABILITY

1st and 2nd model wheels are interchangeable.
3rd model wheels with perforated disc may be used to replace 1st and 2nd model wheels.
3rd model, perforated disc-type wheels **must** be used for cars equipped with temperature-compensated brakes.

BALANCING

This operation should be carried out most carefully, especially for front wheels.

An electronic machine enabling to balance the road wheel-hub-drum and hub cap assembly as installed on the car should preferably be used.

The finger or sensor of this machine should be tilted to a 45 deg. angle to detect both static and dynamic unbalances thus permitting to eliminate them in one step only.

Balance weights with removable springs should be excluvively used when balancing rolled flange wheels as installed on 404 associated vehicles.

WHEEL TIGHTENING TORQUE

A torque wrench must imperatively be used to torque road wheels.

Tightening torques are as follows :

404 { Saloon cars / Coupés / Cabriolets } 6 m.kg or 43.4 ft.lbs

404 associated vehicles = 7.5-8 m.kg or 54.2-57.9 ft.lbs.