# Axles



## 4 WHEEL DRIVE

**DYNAMIC** LOAD

FRONT kg 8300

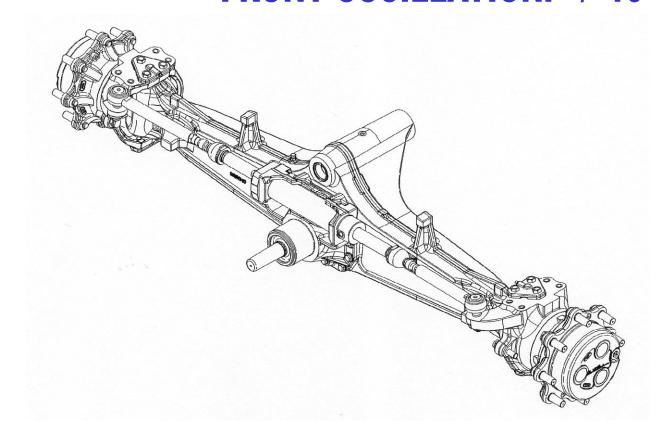
REAR kg 7600

100% DIFFERENTIAL LOCK IN
THE REAR AXLE ELECTROHYDRAULICALLY
CONTROLLED



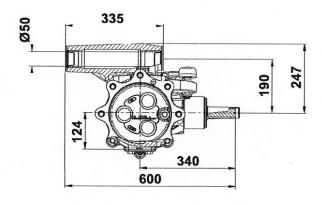


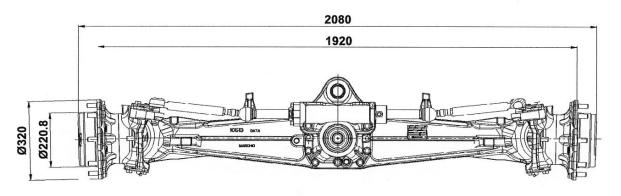
### FRONT OSCILLATION: +/- 10°

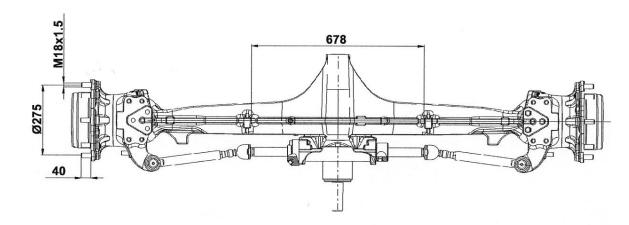




#### **Axle: Front Axle (Overall Dimensions)**

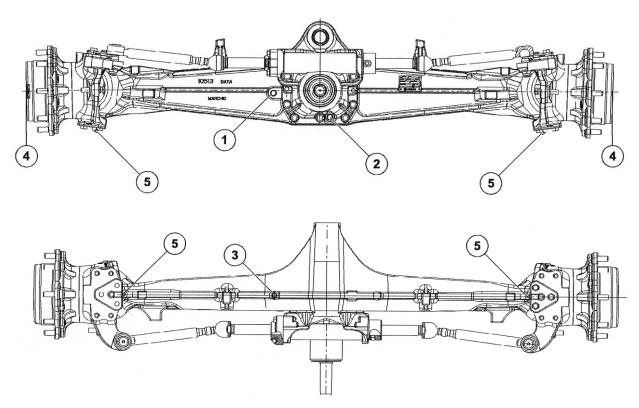








#### **Axle: Front Axle (Lubrication & Controls)**



- 1 Oil filling and level plug
- 2 Oil drain plug
- 3 Oil breather
- 4 Filling lever and drain plug of epicyclic reduction gear oil
- 5 Greasing point

#### Periodical checks:

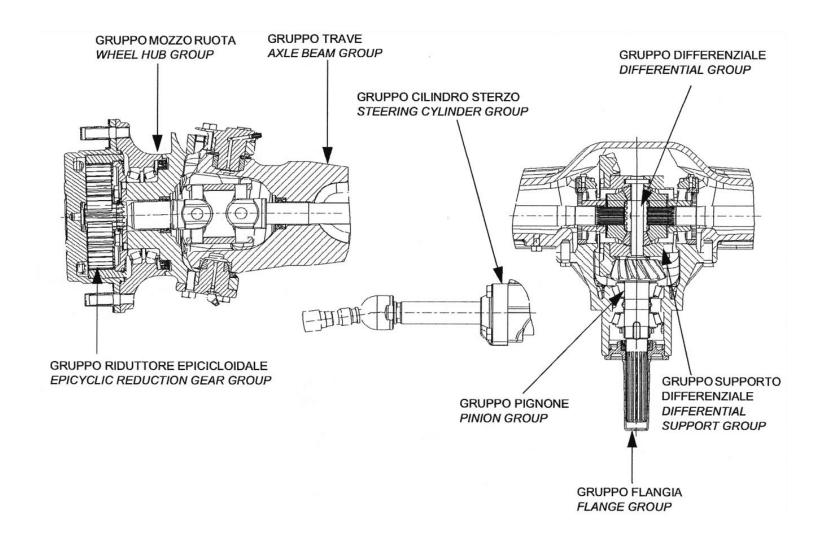
Check the oil level to flush the level plugs (1) and (4).

If not, top up with oil of the correct type.

Any oil leaks should be repaired immediately to avoid the possibility of demage to mechanical parts.

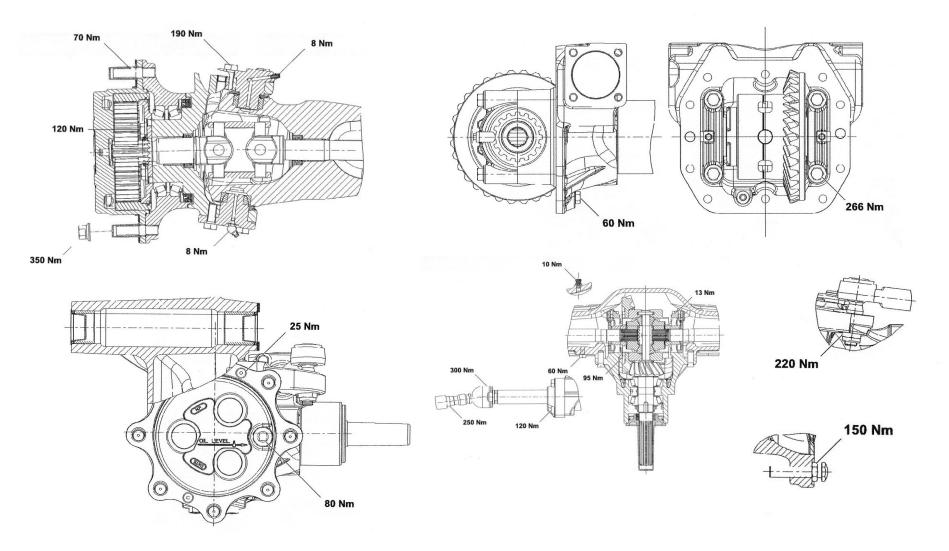
To drain the oil from the axle, unscrew plugs (4) and (2)





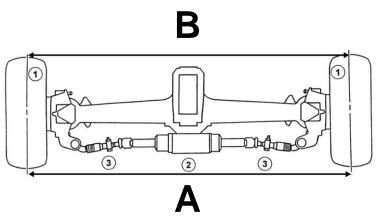


#### **Axle: Front Axle (Workshop Data)**



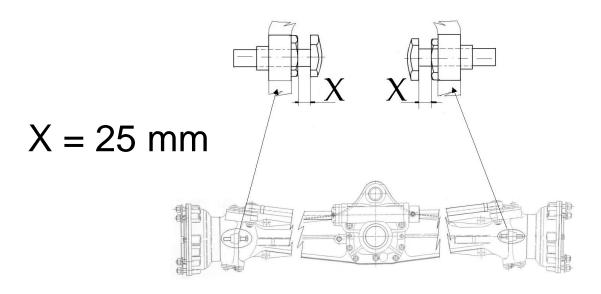


#### **Axle: Front Axle Steering Adjustment**

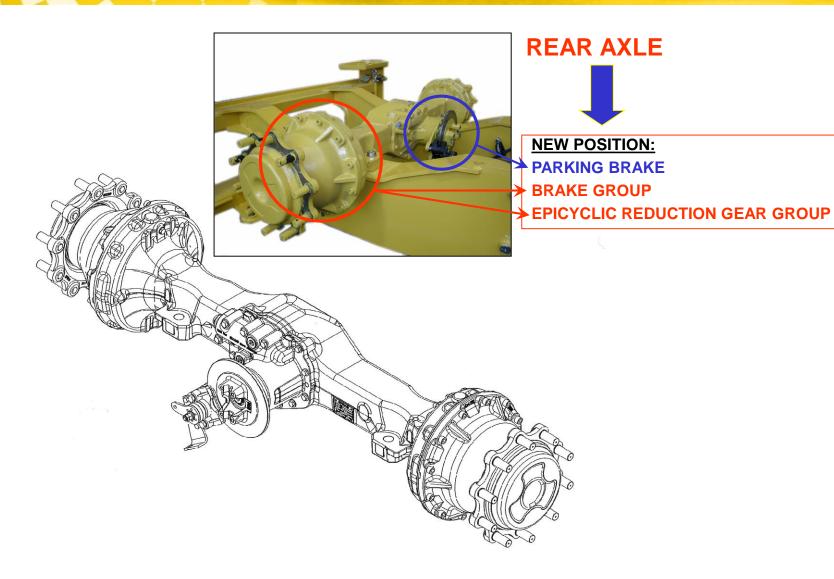


Measurament **B** must be equal to measurament **A** 

- 1 Tyres
- 2 Steering cylinder
- 3 Adjustment

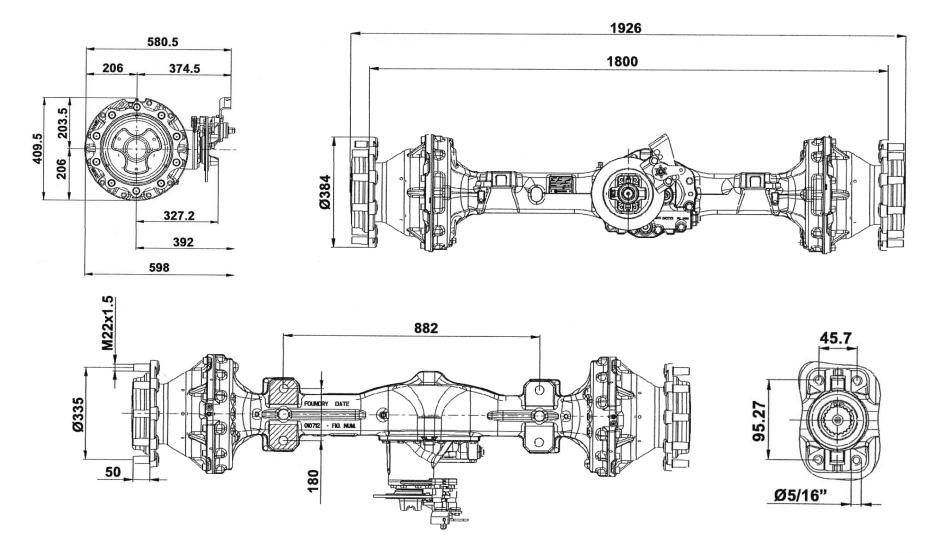








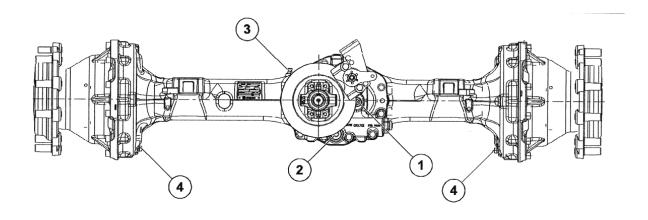
#### **Axle: Rear Axle (Overall Dimmension)**

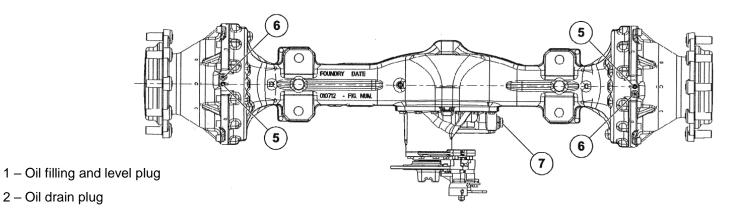




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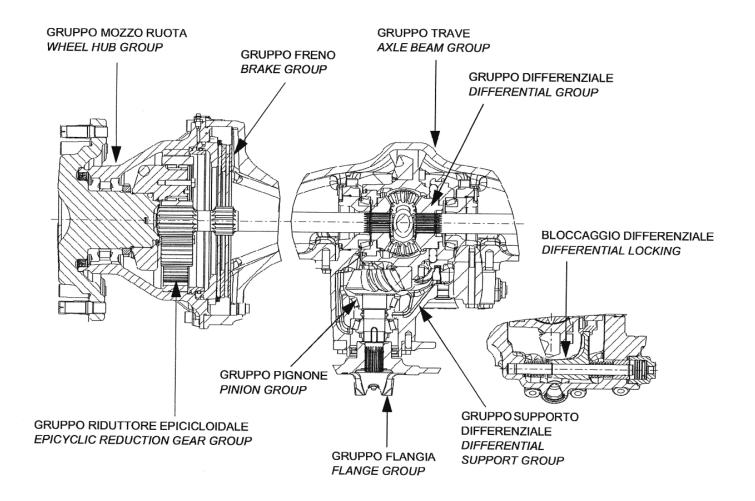
#### Axle: Rear Axle (Llubrication & Controls)





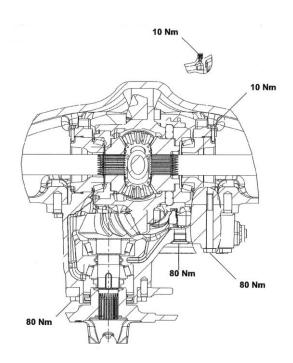
- 2 Oil drain plug
- 3 Oil breather
- 4 Drain plug on wheel side
- 5 Brakes bleeding plug
- 6 Service brake connection port
- 7 Differential locking engagement feed port

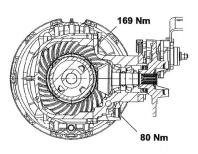


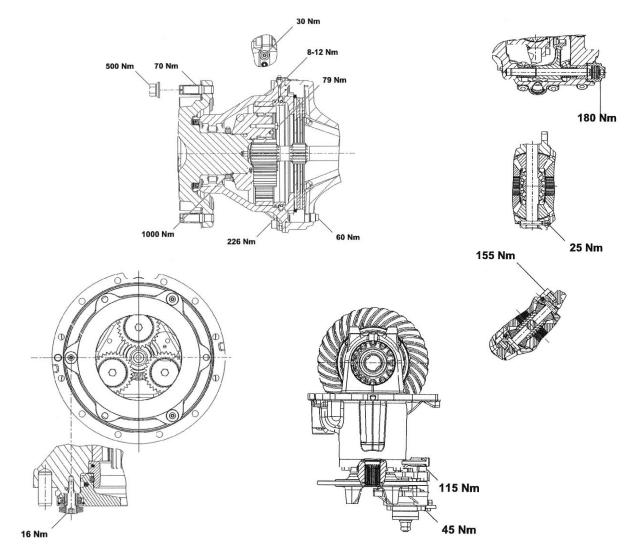




#### **Axle: Rear Axle (Workshop Data)**



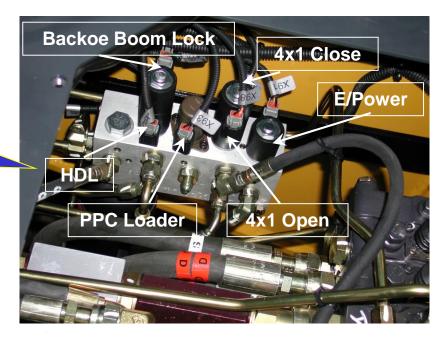


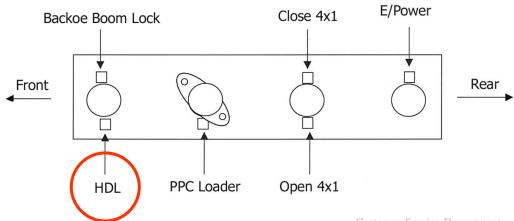


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# YDRAULIC **U**IFFERENTIAL





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Spessore controdisco nuovo= 8.0±0.1 mm Spessore controdisco nuovo= 5.0±0.1 mm Spessore minimo controdisco usurato= 7.6 mm Spessore minimo controdisco usurato= 4.6 mm New separator plate thickness= 8.0±0.1 mm New separator plate thickness= 5.0±0.1 mm Worn separator plate minimum thickness= 7.6 mm Worn separator plate minimum thickness= 4.6 mm Disco rif. CA148488 - q.tà 2 Disco rif. CA148487 - q.tà 2 Plate ref. CA148488 - q.ty 2 Plate ref. CA148487 - q.ty 2 Max usura pistone= 0.4 mm Piston max wear= 0.4 mm Disco rif. CA148795 - q.tà 4 Plate ref. CA148795 - q.ty 4 Spessore disco attrito nuovo= 6.73±0.1 mm Spessore minimo disco usurato= 5.8 mm New friction plate thickness= 6.73±0.1 mm Worn plate minimum thickness= 5.8 mm



#### **Brakes:**

- Oil immersed multi-discs Service brakes in the rear axle
- 2 separate circuits (right and left) and 2 separate brake pedals, that can be locked together
- Increased disc diameter (300 mm)
- Pushing both pedals together 4WD is automatically engaged, when travelling on 4th gear, assuring the 4 Wheels Braking Effect.



NOTE: When driving, pedals must be lock together for safety!

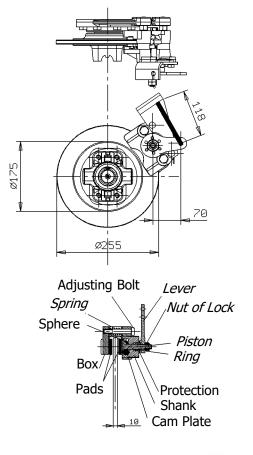


## Front Axle 4WD Brake Control Valve Oil Pump 4WD Brake control cylinder Pressure Switches Gear Box Parcking Brake Lever

#### Rear axle

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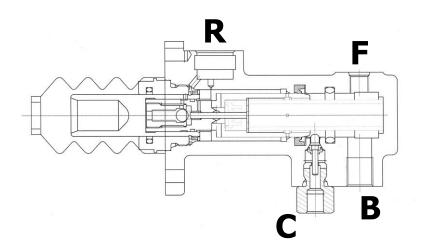
#### Parking Brake

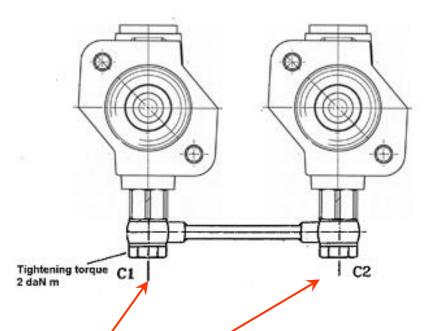




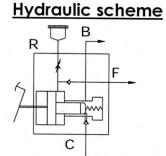
#### **Pumps:**

max pressure: 150 bar



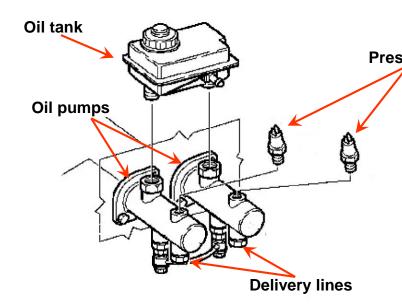


C1, C2: Brake pressure compensation connections

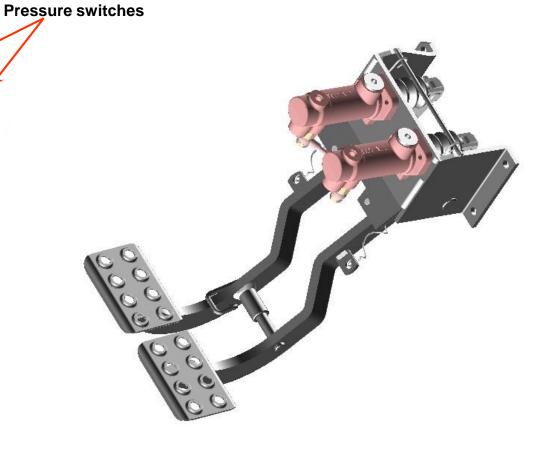




#### **Brakes: Brakes System**









### **4WD Braking Effect:**

Gear:	1°	2°	3°	<b>4°</b>
WB93R-5				X
WB97R-5			X	Х

The parking or safety brake, when engaged, disconnects the transmission, (important for safety).

