ABC COMPANIES
Exclusive U.S. VANHOOL Distributor

TECH TIPS
#1223

COACH MODEL :	All models with unitized hub bearings and E 24 inverted torx fasteners
DATE :	12/05/2012
SUBJECT :	Front and tag axle disc to hub fasteners

Unitized hub assy with E24 fasteners



E 24 IMPACT INVERTED TORX SOCKET S&K



12.6 Axles
Front axle

VANHOOL

Technical data: front axle

Make

Van Hool

Geometry

Caster	3° ± 15'
Camber	+15' ± 15'
King-pin inclination	7°
Toe-out (degrees)	-5' ± 2'
Toe-out (inch)	-0.02 ± 0.006 in/ft
Maximum steering angle, inner wheel	
• 22.5" x 8.25" wheel	57°
• 22.5" x 9" wheel	55°

Wheel hub

Wheel bearing end-play	maximum 0.01 in

Steering knuckle

Axial clearance	
• new	maximum 0.008 in
• at routine checks according to maintenance schedule	maximum 0.016 in

Tightening torques

Hub nut	545 ± 30 ft.lbf
Hexagonal socket screw for securing wheel flange to brake disc (M12 x 1.5)	55 ± 7 ft.lbf
Screws for securing wheel flange/brake disc to hub unit (M18 x 1.5 -10.9)	320 ± 20 ft.lbf
Air spring piston to steering knuckle carrier	52 ± 7 ft.lbf
Shock absorber nut	70 ft.lbf
Nut of tie-rod clamping bolt	60 ± 7 ft.lbf

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