

ECLA EUROPEAN CLASSIFICATION

B60D VEHICLE CONNECTIONS (components of brake systems [B60T17/04](#))

Note

Attention is drawn to the note following the class [B60](#)

- B60D1/00** **Traction couplings; Hitches; Draw-gear; Towing devices** (devices specially adapted for connection between tractors and agricultural machines or implements [A01B59/00](#); fifth-wheel couplings [B62D](#))
- B60D1/01 . Traction couplings or hitches characterised by their type
 - B60D1/01B . . [N: Fifth wheel couplings] [N1204]
 - B60D1/02 . . Bolt or shackle-type couplings
 - B60D1/02B . . . [N: comprising release or locking lever pins] [N1204]
 - B60D1/04 . . Hook or hook-and-hasp couplings
 - B60D1/06 . . Ball-and-socket hitches [N: e.g. constructional details, auxiliary devices, their arrangement on the vehicle]
 - B60D1/06B . . . [N: characterised by the hitch mechanism]
 - B60D1/07 . . Multi-hitch devices, i.e. comprising several hitches of the same or of a different type; Hitch-adaptors, i.e. for converting hitches from one type to another
 - B60D1/07B . . . [N: Hitch-adaptors] [N1204]
 - B60D1/14 . Draw-gear or towing devices characterised by their type
 - B60D1/14B . . [N: Arrangements or frames adapted to allow the connection of trailers to tractor three point hitches (coupling of multipurpose tractors with equipment [B62D49/06E](#))]
 - B60D1/14C . . [N: characterised by the mounting of the draw-gear on the towed vehicle ([B60D1/18D](#) takes precedence)] [C1207]
 - B60D1/145 . . consisting of an elongated single bar or tube
 - B60D1/155 . . . comprising telescopic or foldable parts
 - B60D1/167 . . consisting of articulated or rigidly assembled bars or tubes forming a V-, Y-, or U-shaped draw gear ([B60D1/173](#) takes precedence)
 - B60D1/167B . . . [N: comprising extendable, retractable or foldable members] [N1204]
 - B60D1/173 . . consisting of at least two bars which are not connected or articulated to each other
 - B60D1/18 . . Tow ropes, chains or the like
 - B60D1/18B . . . [N: comprising resilient members]
 - B60D1/18C . . . [N: comprising a cable or chain winding device ([B60D1/38](#) takes precedence)]
 - B60D1/18D . . . [N: characterised by the connection to the towing vehicle or to the trailer]
 - B60D1/24 . characterised by arrangements for particular functions
 - B60D1/24B . . [N: for suppressing noise generation] [N1204]
 - B60D1/24D . . [N: for supporting braking actions, e.g. braking means integrated with hitches; Braking sensors] [N1204]
 - B60D1/24F . . [N: for protection in case of crash, collision, impact, or the like] [N1204]
 - B60D1/24F2 . . . [N: involving weakened zones in the hitches] [N1204]

- B60D1/24H . . [N: for facilitating push back or parking of trailers] [N1204]
- B60D1/24J . . [N: for actuating the hitch by powered means] [N1204]
- B60D1/24L . . [N: for improving weight distribution] [N1204]
- B60D1/24N . . [N: for measuring, indicating or displaying the weight] [N1204]
- B60D1/24P . . [N: for damping in the pulling direction and being integrated with the hitch, e.g. resilient dampers integrated with the hitch] [N1204]
- B60D1/26 . . for remote control, e.g. for releasing
- B60D1/28 . . for preventing unwanted disengagement, e.g. safety appliances
- B60D1/30 . . for sway control, [N: e.g. stabilising or anti-fishtail devices; Sway alarm means] [C1207]
- B60D1/30B . . . [N: Sway alarm means] [N1204]
- B60D1/32 . . . involving damping devices [C0506]
- B60D1/32B [N: using fluid dampers (fluid dampers per se F16F9/00)]
- B60D1/32C [N: using friction dampers (friction dampers per se F16F7/02 to F16F7/08)] [N0506] [C0506]
- B60D1/32D [N: using cables] [N0506]
- B60D1/34 . . . involving springs
- B60D1/34B [N: the springs being of the bar or leaf type (torsion bars per se F16F1/14, leaf springs per se F16F1/18)]
- B60D1/36 . . for facilitating connection, e.g. hitch catchers [N: , visual guide means, signalling aids (B60D1/46B takes precedence; vehicle signalling in general B60Q; optical arrangements specially adapted for viewing trailer-hitches B60R1/00G2)]
- B60D1/36B [N: Hitch guiding or catching elements, e.g. V-shaped plates partially surrounding a coupling member for guiding the other coupling member]
- B60D1/36B2 [N: comprising braking means] [N1204]
- B60D1/38 . . . involving auxiliary cables for drawing the trailer to the tractor before coupling
- B60D1/40 . . . involving a temporarily extensible or alignable member (B60D1/38 takes precedence)
- B60D1/42 . . for being adjustable
- B60D1/44 . . . horizontally
- B60D1/46 . . . vertically
- B60D1/46B [N: comprising a lifting mechanism, e.g. for coupling while lifting]
- B60D1/48 . . characterised by the mounting
- B60D1/48B . . [N: adapted for being mounted to the front and back of trailers, carts, trolleys, or the like to form a train] [N1204]
- B60D1/48D . . [N: adapted for being mounted to the side of a vehicle] [N1204]
- B60D1/48F . . [N: mounted by means of transversal members attached to the frame of a vehicle] [N1204]
- B60D1/48H . . [N: adapted for being mounted to the wheel axle of the vehicle] [N1204]
- B60D1/48J . . [N: mounted directly to the chassis of the towing vehicle] [N1204]
- B60D1/50 . . resiliently mounted (B60D1/30 takes precedence) [N: (B60D1/18B takes precedence; springs or dampers per se F16F)]
- B60D1/52 . . removably mounted (B60D1/56 takes precedence)
- B60D1/54 . . collapsible or retractable when not in use, e.g. hide-away hitches (B60D1/52 takes precedence)

- B60D1/56 . . . securing to the vehicle bumper
- B60D1/56B . . . [N: having an eyelet] [N1204]
- B60D1/58 . Auxiliary devices
- B60D1/58B . . [N: Holding down means, e.g. holding down retainers] [N1204]
- B60D1/58D . . [N: Lubrication means] [N1204]
- B60D1/60 . . Covers, caps or guards [N: e.g. comprising anti-theft devices]
- B60D1/60B . . . [N: Protection caps] [N1204]
- B60D1/62 . . involving supply lines, electric circuits, or the like
- B60D1/64 . . . Couplings or joints therefor
- B60D1/66 . . Props
- B60D1/66B . . . [N: comprising supporting wheels, e.g. dollies] [N1204]
- B60D3/00** **Fittings to facilitate pushing** ([B60D1/00](#) takes precedence; vehicle bumpers [B60R19/02](#); steering arrangements for backing a normally-drawn trailer [B62D13/06](#))
- B60D5/00** **Gangways for coupled vehicles, e.g. of concertina type**
- B60D5/00B . [N: Bellows for interconnecting vehicle parts] [N1204]
- B60D5/00D . [N: Passages between articulated vehicles, e.g. bridges or rotating plates] [N1204]
- B60D7/00** **Other connections**