



ACOUSTIC SIGNAL UNITS
PRODUCT RANGE FOR
NORTH AMERICA 2024

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ABOUT HELLA

HELLA is a listed, internationally positioned automotive supplier operating under the umbrella brand FORVIA. Within this factual group, HELLA stands for high-performance lighting technology and automotive electronics. At the same time, the company covers a broad service and product portfolio for the spare parts and workshop business as well as for manufacturers of special vehicles with its Business Group Lifecycle Solutions. HELLA has 36,000 employees at more than 125 locations worldwide.

Note

All information in this brochure is provided for reference use only. Subject to change. HELLA is not responsible for the final use of the products, and care must be taken to ensure that the products are suitable for the application.



DEAR PARTNERS AND CUSTOMERS



In this brochure, HELLA presents its range of acoustic signal units for the European market. HELLA has over 120 years of experience in developing horns and trumpet horns. Our warning signals use state-of-the-art acoustic technologies. Safety, reliability and precision engineering are our main priorities.

Compliance with worldwide quality standards



For more details and other applications, please consult our website: www.hella.com/horns



HELLA's packagings include an hologram to protect against counterfeiting. This new seal gives workshops, distributors and their customers the guarantee that they are using genuine HELLA parts.



ACOUSTIC DEVICES

HELLA'S HORNS, TRUMPET HORNS, AND AIR TRUMPET HORNS ARE DESIGNED AND MANUFACTURED WITH GERMAN PRECISION TECHNOLOGY. WE WORK WITH WORLD-CLASS VEHICLE MANUFACTURERS SO YOU CAN REST ASSURED THAT YOUR HORNS FEATURE STATE-OF-THE-ART AND THE BEST TECHNOLOGIES.

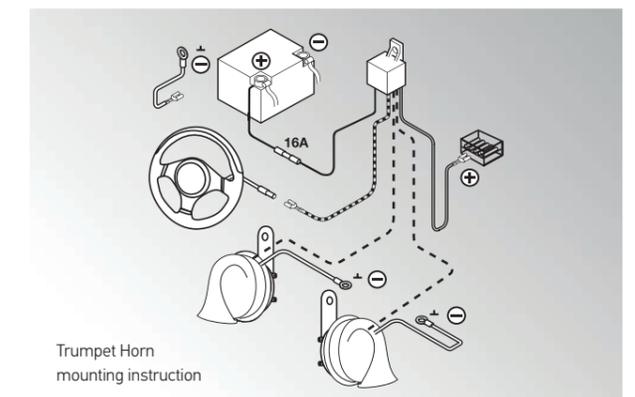
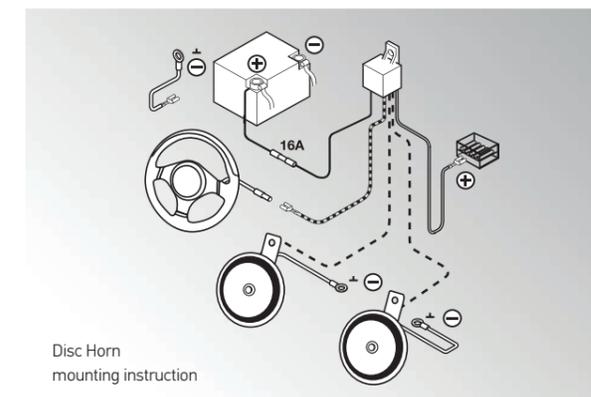
HELLA quality isn't just seen, it's also heard: our specialized experience in developing horns and air trumpet horns complies with strict ECE and OEM requirements, both in applications for passenger cars and commercial vehicles.

Our manufacturing plant HELLA India Automotive is fully committed to research and development as well as displaying a strict adherence to quality manufacturing. Leveraging HELLA's worldwide central resources for vehicle electronics, HELLA enforces the principles of developing state-of-the-art products and ensures the delivery of world-class horns to our customers.

TYPICAL INSTALLATION INSTRUCTIONS

- 1) Before installation, ensure that the battery is disconnected from the vehicle wiring system.
- 2) Select a mounting location with enough space around the horns and other parts of the vehicle. The installation position must be protected against splash water.
- 3) Do NOT move, adjust, or change the bracket or nut. If you do, the electromechanical properties will be altered and cause a loss of performance.
- 4) Mount the horns/trumpets to a stable bracket.
- 5) Use a cable with a suitable diameter for mounting the horn, keeping in mind the amount of power needed by the horn.

Connections may differ depending on the vehicle!



TRUMPET HORN



[1] Bracket [2] Terminals [3] Contacts [4] Solenoid [5] Seal [6] Diaphragm [7] Base plate [8] Solenoid

DISC HORN



[1] Bracket [2] Terminals [3] Contacts [4] Solenoid [5] Seal [6] Simple horn shank [7] Diaphragm [8] Cover ring

RECOMMENDATION FOR SELECTING A SIGNAL UNIT



VOLUME



The quality of horns and trumpet horns is not easy for people to gauge. HELLA has more than 120 years of experience in manufacturing high-quality acoustic devices and guarantee a pleasant and harmonic sound.

For various vehicle applications, HELLA provides professional recommendations on how to choose the right product. You can find details in the product overview.

HELLA recommends mounting a pair of horns to replace the vehicle's horn.

This is one of the key performance indicators for a horn's characteristics.

HELLA has a wide product range of horns and trumpet horns in the volume range of 108 dB(A) to 118 dB(A).

FUNCTIONAL PRINCIPLE



NOMINAL VOLTAGE



Horns are powered by the battery current signal, which is commonly controlled by a voltage pulse sent from the steering wheel. The current signal is directed to a relay, which transmits the entire control current, preventing voltage drops.

As the horn is powered by the electric current, it forms a magnetic field, which attracts a metal core (shank) together with a steel diaphragm. This attraction causes vibrations, which are transformed by varying resonances in order to obtain low or high tones.

- 7–12V: for automotive vehicles, agricultural machinery, construction machinery, etc.
- 7–24V: for commercial vehicles, buses, municipal vehicles, etc.

AIR TRUMPET HORNS



EFFICIENT SOUND

HELLA's air trumpet horns produce a loud, far-reaching sound. Ideal for vehicles which need to be heard in traffic.

HELLA's air trumpet horns are produced from durable materials, have a sharp sound, and include mounting materials. Their design is both striking and resistant to inclement weather.



REVERSING AND WARNING ALARMS



SAFETY FIRST

In some countries, regulations require the installation of a reversing alarm when automotive vehicles have an obstructed view to the rear. The vehicle must have an audible reversing alarm that is louder than the surrounding noise level unless the vehicle is accompanied by an observer who signals when it is safe to reverse.

All bidirectional machinery, such as construction machinery, agricultural machinery, garbage trucks etc. must be equipped with a reversing alarm, which differs from surrounding noises and is triggered as required when the machinery is moving. The reversing alarm must always be fully operational. Many of the regulations require a sound level higher than 90 dB.





ENJOY YOUR
URBAN JUNGLE
HEAR THE ROAR



LOUD
Small size Disc Horns

EXPLORE THE
POSSIBILITIES
PRODUCT RANGE

- eLONG-LIFE HORNS
- ESSENTIAL HORNS
- STYLE HORNS
- PERFORMANCE HORNS
- OE-CONNECT HORNS
- HEAVY DUTY HORNS
- COMPRESSED AIR HORNS
- BACK-UP ALARMS
- MOTORCYCLE HORNS

HARMONIC
Trumpet Horns



BLASTER
Large size Disc Horns

CARS

eLONG-LIFE HORNS

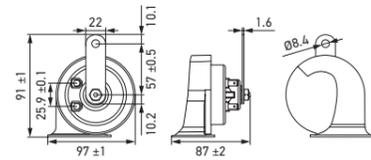


TE40 SERIES

ELECTRONIC TRUMPET HORN | FIT & FORGET



- Ultra-Long service life.
- Switching mechanism is replaced by an electronic component.
- Provide 3 years HELLA quality warranty to end consumers.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
007728981	1 set (2 pcs)	TE40 Set

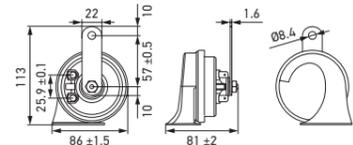
ESSENTIAL HORNS

TE20 SERIES

TRUMPET HORN | BLACK SLEEK



- Black ABS housing with glossy finished
- Project a wide sound emission for safe driving on the road.
- Wide range of sounds when you install a set of low and high tones.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



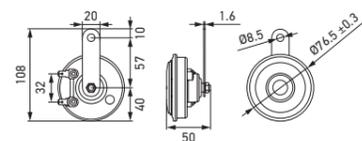
Part no.	Quantity	Description
011225831	^[1] 1 set (2 pcs)	TE20 Set
012010971	1 set (2 pcs)	TE20 Set, Blister

S77 SERIES

DISC HORN | CLASSIC



- Classic sound with high sound density.
- Less power to produce a powerful sound.
- Powder-coated corrosion-resistant surface.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
012588151	^[1] 1 set (2 pcs)	S77 Set, Classic
012588351	^[2] 1 piece	S77, 430 Hz

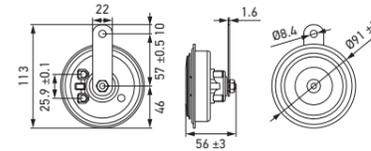
ESSENTIAL HORNS

S92 SERIES

DISC HORN | STRONG TONE



- Strong and focused sound emission.
- Fully shaped oscillator for optimal sound performance.
- Original equipment quality horns you can trust from a global leader.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

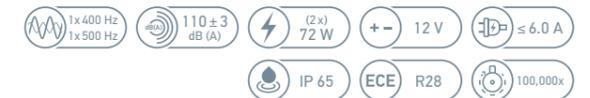


Part no.	Quantity	Description
011225871	^[1] 1 set (2 pcs)	S92 Set
012588071	1 set (2 pcs)	S92, 435 Hz, Blister
012588141	1 set (2 pcs)	S92, 335 Hz, Blister

STYLE HORNS

TE24 SERIES

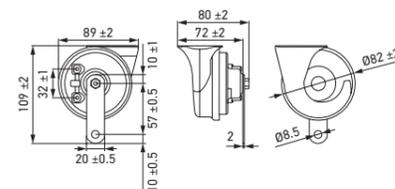
TRUMPET HORN | RED TWIN TONE



- Sporty design.
- Fully harmonious sound and wide sound emission.
- Original equipment quality horns you can trust from a global leader.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

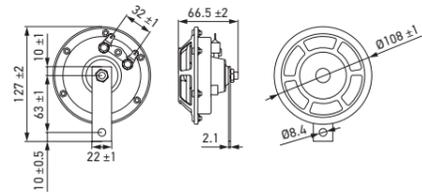


Part no.	Quantity	Description
007424801	^[1] 1 set (2 pcs)	TE24 Set Red, includes 4-pin relay ^[3]
012010801	^[1] 1 set (2 pcs)	TE24 Set Blue
012010821	^[1] 1 set (2 pcs)	TE24 Set Yellow
007424001	^[2] 1 piece	TE24 Red, 400 Hz
007424011	^[2] 1 piece	TE24 Red, 500 Hz



STYLE HORNS

S108 SERIES DISC HORN | SHARP TONE

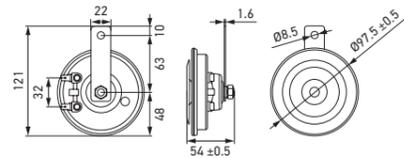


- Sporty design with stable yellow protective grille.
- Penetrating sound for more safety on the road.
- Ideal for tough off-road use.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
922000731	1 set (2 pcs)	S108 Set

S98 SERIES DISC HORN | RICH TONE



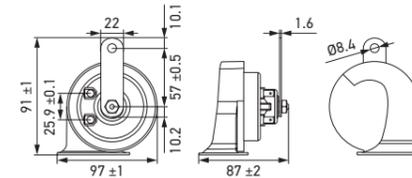
- High quality rich tone.
- Penetrating, long-range tone for additional safety.
- Enhanced quality and durability.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
012588341	^[1] 1 set (2 pcs)	S98 Set
012588291	^[2] 1 piece	S98, 400 Hz

PERFORMANCE HORNS

TE30 SERIES TRUMPET HORN | CHROME TWIN TONE

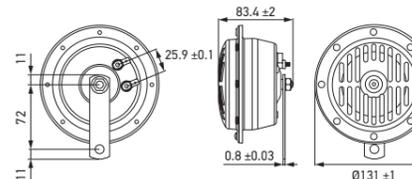


- Special edition with a high glossy chrome design.
- Harmonious tone and wide sound emission.
- Strong acoustic signaling for greater safety in traffic.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
007728883	^[1] 1 set (2 pcs)	TE30 Set, chrome
007728893	^[2] 1 set (2 pcs)	TE30 Set, gold

S130 SERIES DISC HORN | AVANT TONE CHROME



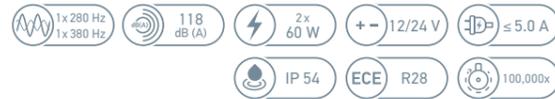
- Avant grade look and design.
- Enhanced electromagnet power gives overwhelming sound emission.
- Available in 12 V / 24 V for highway application.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M10 fixing screw.



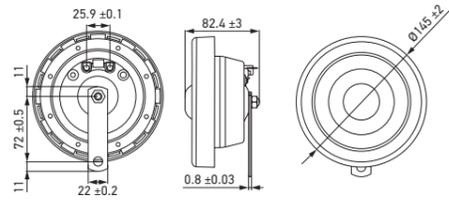
Part no.	Quantity	Description
004811091	1 set (2 pcs)	S130 Set

PERFORMANCE HORNS

S140 SERIES DISC HORN | AVANT TONE

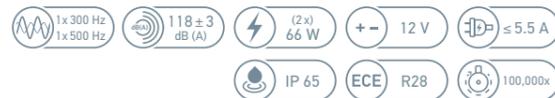


- Avant grade look and design.
- Enhanced electromagnet power gives overwhelming sound emission.
- Available in 12 V / 24 V for highway application.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M10 fixing screw.

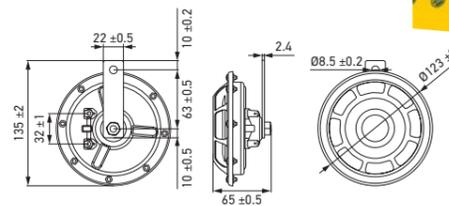


Part no.	Quantity	Description
004811101	1 set (2 pcs)	S140 Set, 12 V
004811081	1 set (2 pcs)	S140 Set, 24 V

B133 SERIES DISC HORN | SUPER TONE



- Signature Red Grill Horn from HELLA.
- Traffic blaster, produces a penetrating strong sound.
- Ideal for all passenger cars and tough off-road use.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



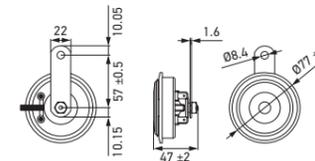
Part no.	Quantity	Description
003399801	^[1] 1 set (2 pcs)	B133 Set, includes 4-pin relay ^[3]
358114051	^[2] 1 piece	B133, 500 Hz

OE-CONNECT HORNS

S77 SERIES DISC HORN | QUICK FIT



- OE connector for vehicle-specific applications.
- Quick plug is easy to fit by end-consumer.
- Less power to produce a powerful sound.
- With 6.3 mm blade terminal contacts, open.



See the below to know exact OE-connect design of each parts number

Part no.	Quantity	Description
011225881	1 set (2 pcs)	S77 Set, for TOYOTA
011225891	1 set (2 pcs)	S77 Set, for HONDA

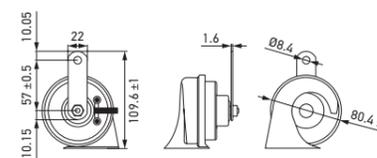
OE CONNECTORS

Product picture	Dimensional sketches	OE connector for
		011225881 For TOYOTA
		011225891 For HONDA

TE26 SERIES TRUMPET HORN | QUICK FIT



- OE connector for vehicle-specific applications.
- Loud acoustic signaling for more safety in traffic.
- Quick plug is easy to fit by end-consumer.
- With vehicle specific connector.
- Bracket on horn for M8 fixing screw.



See the next page to know exact OE-connect design of each parts number

Part no.	Quantity	Description
011225841	1 set (2 pcs)	TE26 Set, for AUDI, SEAT, VW
012010881	1 set (2 pcs)	TE26 Set, for BMW
011225921	1 set (2 pcs)	TE26 Set, for FORD
012010911	1 set (2 pcs)	TE26 Set, for HONDA
011225901	1 set (2 pcs)	TE26 Set, for HYUNDAI
012010891	1 set (2 pcs)	TE26 Set, for PEUGEOT
012010901	1 set (2 pcs)	TE26 Set, for TOYOTA
011225851	1 set (2 pcs)	TE26 Set, for VW

OE-CONNECT HORNS

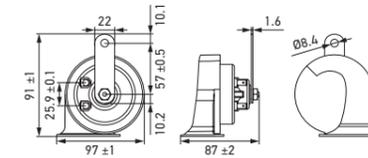
OE CONNECTORS

Product picture	Dimensional sketches	OE connector for
		011225841 For AUDI, SEAT, VW
		012010881 For BMW
		011225921 For FORD
		012010911 For HONDA
		011225901 For HYUNDAI
		012010891 For PEUGEOT
		012010901 For TOYOTA
		011225851 For VW

COMMERCIAL VEHICLES HEAVY DUTY HORNS



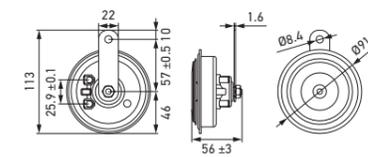
TE30 SERIES 24 V TRUMPET HORN | HARMONIC



- Harmonious tone and wide sound emission.
- Project a wide sound emission for safe driving on the road.
- Wide range of sounds when you install a set of low and high tones.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
940800821	1 set (2 pcs)	TE30 Set

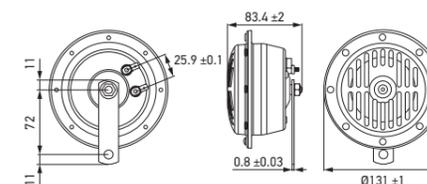
S92 SERIES 24 V DISC HORN | STRONG TONE



- Strong and focused sound emission.
- Fully shaped oscillator for optimal sound performance.
- Original equipment quality horns you can trust from a global leader.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
002768821	1 set (2 pcs)	S92 Set

S130 SERIES 24 V DISC HORN | AVANT TONE CHROME

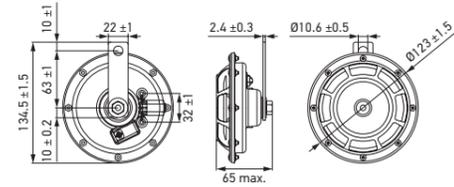


- Avant grade look and design.
- Enhanced electromagnet power gives overwhelming sound emission.
- Available in 12 V / 24 V for highway application.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M10 fixing screw.

Part no.	Quantity	Description
004811071	1 set (2 pcs)	S130 Set

HEAVY DUTY HORNS

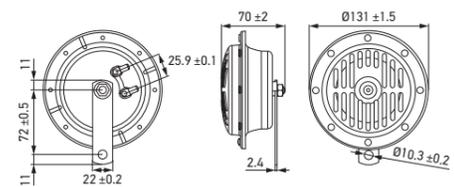
B133 SERIES 24 V DISC HORN | SUPER TONE



- Signature Super Tone from HELLA.
- Black housing and protective grille.
- High power wattage 84 W.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M10 fixing screw.

Part no.	Quantity	Description
003399101	1 set (2 pcs)	B133 Set
003399061	1 piece	B133, 375 Hz
003399071	1 piece	B133, 500 Hz

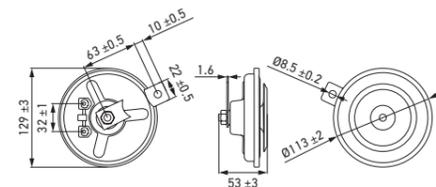
DL50 SERIES DISC HORN | HEAVY TONE



- Deep and penetrating warning signal.
- Riveted assembly instead of screws to increase reliability.
- Ideal for all kinds of commercial vehicles.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M10 fixing screw.

Part no.	Quantity	Description
004811042	^[1] 1 set (2 pcs)	DL50 Set, 12 V, 2x72 W, ≤ 3.5 A
004811001	^[2] 1 piece	DL50, 310 Hz, 12 V, 72 W, ≤ 3.5 A
004811011	^[2] 1 piece	DL50, 380 Hz, 12 V, 72 W, ≤ 3.5 A
004811132	^[1] 1 set (2 pcs)	DL50 Set, 24 V, 2x84 W, ≤ 6.0 A
004811021	^[2] 1 piece	DL50, 310 Hz, 24 V, 84 W, ≤ 6.0 A
004811031	^[2] 1 piece	DL50, 380 Hz, 24 V, 84 W, ≤ 6.0 A

B36 SERIES DISC HORN | RICH TONE

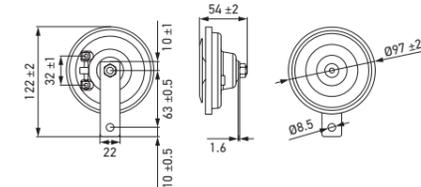


- High quality rich tone.
- Penetrating, long-range tone for additional safety.
- Enhanced quality and durability.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
002768082	1 piece	B36, 335 Hz, 12 V
002768551	1 piece	B36, 400 Hz, 12 V
002768382	1 piece	B36, 335 Hz, 24 V
002768431	1 piece	B36, 400 Hz, 24 V

HEAVY DUTY HORNS

M26 SERIES DISC HORN | RICH TONE

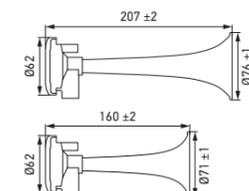


- High quality rich tone.
- Penetrating, long-range tone for additional safety.
- Enhanced quality and durability.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
002952861	1 piece	M26, 335 Hz
002952811	1 piece	M26, 400 Hz
006958901	1 piece	M26, 335 Hz, 80 W

COMPRESSED AIR HORNS

CA10 SERIES RED TWIN TONE AIR HORN | LOUD

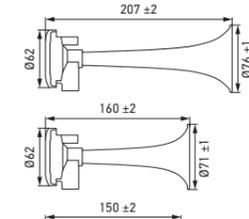


- Red trumpet horns and a high performance compressor.
- ABS plastic body and support in galvanized metal.
- Mounting bracket included.
- With flat connections of 6.3 mm, open, blade type.
- Pressure Range: 0.6 bar

Part no.	Quantity	Description
003001651	1 set*	CA10 Set, 12 V
003001661	1 set*	CA10 Set, 24 V

* Includes: 2 pipes air horn, compressor, pressure tubes, bifurcated piece, fastening and relay

CA12 SERIES RED TRIPLE TONE AIR HORN | LOUD



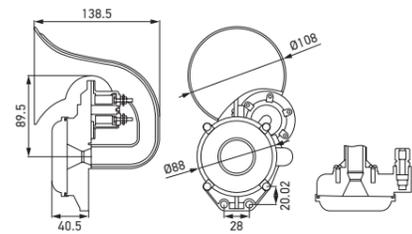
- Red plastic trumpets and a high performance compressor.
- ABS plastic body and support in galvanized metal.
- Horn set include compressor and mounting kits.
- With flat connections of 6.3 mm, open, blade type
- For the vehicles without air tank on board.

Part no.	Quantity	Description
003001981	1 set*	CA12 Set, 780 / 820 / 880 Hz
003001671	1 set*	CA12 Set, 780 / 820 / 880 Hz

* Includes: 3 pipes air horn, compressor, pressure tubes, bifurcated piece, fastening and relay

COMPRESSED AIR HORNS

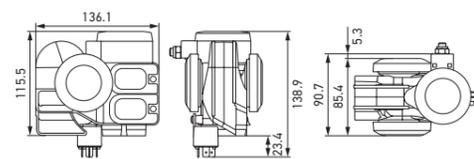
CA20 SERIES SINGLE TONE AIR HORN | SUPER LOUD



- Super loud and high-penetrating power tone.
- Pneumatic operation for vehicles with a compressed air brake system.
- Suitable for tubular fittings Ø 8 mm.
- 2 holes for M10 fixing screws.
- Pressure Range: 5.88 bar

Part no.	Quantity	Description
013410011	1 piece	CA20

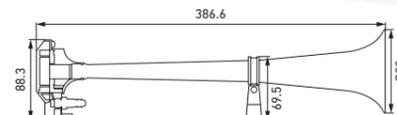
CA26 SERIES ELECTROPNEUMATIC HORN | COMPACT



- Super compact design with horn and compressor in one module.
- The integrated compressor enables immediate sound output
- Necessary mounting kits and relay are included.
- Great fit for motorcycles and all vehicles.
- For the vehicles or motorbike without air tank on board.

Part no.	Quantity	Description
013410081	1 piece	CA26, 12 V
013410091	1 piece	CA26, 24 V

CA30 SERIES CHROME SINGLE TONE AIR HORN | SUPER LOUD



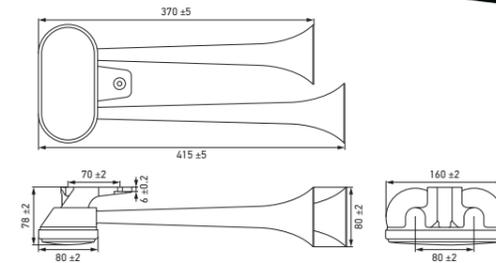
- Super loud and high-penetrating power tone.
- Pneumatic operation for vehicles with a compressed air brake system.
- With flat connections of 6.3 mm, open, blade type.
- 2 holes for M10 fixing screws.
- Pressure Range: 0.98 bar

Part no.	Quantity	Description
013410001	1 piece	CA30, 12 V
013410021	1 piece	CA30, 24 V

* Includes: air horn, compressor, pressure tubes, bifurcated piece, fastening and relay

COMPRESSED AIR HORNS

CA34 SERIES CHROME TWIN TONE AIR HORN | HIGH WAY



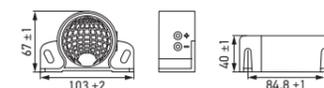
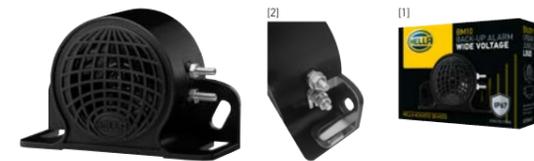
- Wide and far reaching sound.
- Chromed lid and trumpet, matt black base.
- For vehicles with a compressed air brake system.
- Suitable for tubular fittings Ø 8 mm.
- 2 holes for fixing screws M10.
- Pressure Range: 4–8.3 bar

Part no.	Quantity	Description
005411001	1 piece	CA34, 0-20 W
715989001	1 piece	CA34 Accessories, Hand-operated valve
715991001	1 piece	CA34 Accessories, Horn switch 24 V

* Includes: 2 pipes air horn, pressure tubes, t-connections, bifurcated piece and fastening

BACK-UP ALARMS

BM10 SERIES BACK-UP ALARM | WIDE VOLTAGE

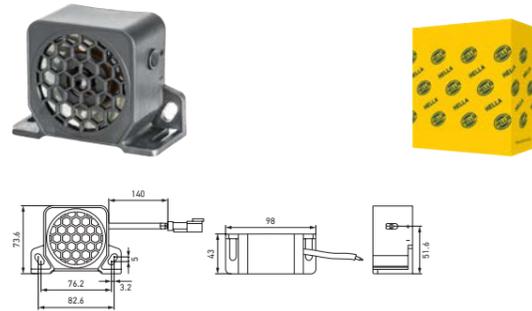


- Wide operating voltage from 12 V up to 48 V.
- Insulated electronics with epoxy to protect against dust and vibrations.
- With Integrated bracket for universal mounting.
- Stud terminal connection.

Part no.	Quantity	Description
009148141	^[1] 1 piece	BM10
009148142	1 piece	BM10, Blister
009148161	^[1] 1 piece	BM10, ground plate ^[2]
009148221	^[1] 1 piece	BM10, SAE J1994

BACK-UP ALARMS

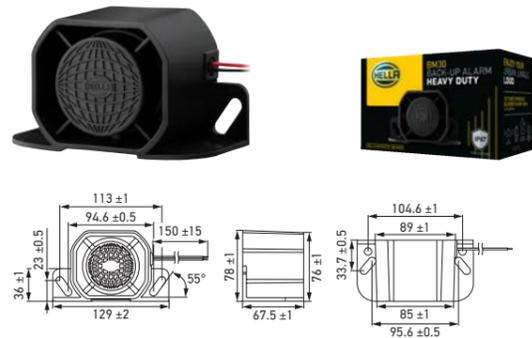
BM20 SERIES BACK-UP ALARM | AMP PLUG



- Integrated AMP plug on the housing.
- With integrated bracket for mounting.
- Operating temperature: -40 °C +85 °C.
- With protection against reverse polarity and voltage points.
- Approved against electromagnetic tolerance and SAE J994.

Part no.	Quantity	Description
009148001	1 piece	BM20, 90 dB (A), ≤0.2 A
009148011	1 piece	BM20, 97 dB (A), ≤0.4 A
009148021	1 piece	BM20, 107 dB (A), ≤0.7 A

BM30 SERIES BACK-UP ALARM | HEAVY DUTY



- Heavy duty design for demanding applications.
- Insulated electronics with epoxy to protect against dust and vibrations.
- Great fit for excavators and other construction equipment.
- With 150 mm wiring harness.
- Integral bracket includes popular OEM mounting pattern.

Part no.	Quantity	Description
996139301	1 piece	BM30

MOTORCYCLES MOTORCYCLE HORNS



S70 SERIES DISC HORN | FOR MOTORCYCLE



- Recommend for motorcycle.
- Compact and lightweight
- Good price-performance ratio
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M6 and M8 fixing screw.

Part no.	Quantity	Description
012588011	[1] 1 set (2 pcs)	S70 Set, 380 / 480 Hz
012588061	[2] 1 piece	S70, 460 Hz



PRODUCT OVERVIEW

Short code	Part no.	Quantity								
Cars										
TE40 Set	007728981	1 set (2 pcs)	400 / 500 Hz	112±3 dB (A)	2x48 W	12 V	≤4.0 A	IP 65	ECE-R28	500,000x
TE20 Set	011225831	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
TE20 Set, Blister	012010971	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
S77 Set, Classic	012588151	1 set (2 pcs)	360 / 430 Hz	110±3 dB (A)	2x48 W	12 V	≤4.0 A	IP 65	ECE-R28	80,000x
S77, Classic	012588351	1 piece	430 Hz	110±3 dB (A)	48 W	12 V	≤4.0 A	IP 65	ECE-R28	80,000x
S92 Set	011225871	1 set (2 pcs)	335 / 435 Hz	113±3 dB (A)	2x60 W	12 V	≤5.0 A	IP 65	ECE-R28	100,000x
S92 Set, Blister	012588071	1 set (2 pcs)	435 Hz	113±3 dB (A)	2x60 W	12 V	≤5.0 A	IP 65	ECE-R28	100,000x
	012588141	1 set (2 pcs)	335 Hz	113±3 dB (A)	2x60 W	12 V	≤5.0 A	IP 65	ECE-R28	100,000x
TE24 Set Red, includes 4-pin relay	007424801	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
TE24 Set Blue	012010801	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
TE24 Set Yellow	012010821	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
TE24 Red	007424001	1 piece	400 Hz	110±3 dB (A)	72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
TE24 Red	007424011	1 piece	500 Hz	110±3 dB (A)	72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
S108 Set	922000731	1 set (2 pcs)	350 / 415 Hz	115±3 dB (A)	2x42 W	12 V	≤3.5 A	IP 65	ECE-R28	100,000x
S98 Set	012588341	1 set (2 pcs)	335 / 400 Hz	115±3 dB (A)	2x54 W	12 V	≤4.5 A	IP 65	ECE-R28	80,000x
S98	012588291	1 piece	400 Hz	115±3 dB (A)	54 W	12 V	≤4.5 A	IP 65	ECE-R28	80,000x
TE30 Set, chrome	007728883	1 set (2 pcs)	410 / 510 Hz	112±3 dB (A)	2x60 W	12 V	≤5.0 A	IP 54	ECE-R28	100,000x
TE30 Set, gold	007728893	1 set (2 pcs)	410 / 510 Hz	112±3 dB (A)	2x60 W	12 V	≤5.0 A	IP 54	ECE-R28	100,000x
S130 Set	004811091	1 set (2 pcs)	280 / 380 Hz	118±3 dB (A)	2x60 W	12 V	≤5.0 A	IP 54	ECE-R28	100,000x
S140 Set	004811101	1 set (2 pcs)	280 / 380 Hz	118 dB (A)	2x60 W	12 V	≤5.0 A	IP 54	ECE-R28	100,000x
S140 Set, 24 V	004811081	1 set (2 pcs)	280 / 380 Hz	118 dB (A)	2x60 W	24 V	≤5.0 A	IP 54	ECE-R28	100,000x
B133 Set, includes 4-pin relay	003399801	1 set (2 pcs)	300 / 500 Hz	118±3 dB (A)	2x66 W	12 V	≤5.5 A	IP 65	ECE-R28	100,000x
B133	358114051	1 piece	500 Hz	118±3 dB (A)	66 W	12 V	≤5.5 A	IP 65	ECE-R28	100,000x
S77 Set										
For TOYOTA	011225881	1 set (2 pcs)	350 / 420 Hz	111±3 dB (A)	2x48 W	12 V	≤4.0 A	IP 65	ECE-R28	100,000x
For HONDA	011225891	1 set (2 pcs)	350 / 420 Hz	111±3 dB (A)	2x48 W	12 V	≤4.0 A	IP 65	ECE-R28	100,000x
TE26 Set										
For AUDI, SEAT, VW	011225841	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For BMW	012010881	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For FORD	011225921	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For HONDA	012010911	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For HYUNDAI	011225901	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For PEUGEOT	012010891	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For TOYOTA	012010901	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
For VW	011225851	1 set (2 pcs)	400 / 500 Hz	110±3 dB (A)	2x72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x

Short code	Part no.	Quantity								
Commercial Vehicles										
TE30 Set	940800821	1 set (2 pcs)	410 / 510 Hz	110±3 dB (A)	2x72 W	24 V	≤3.0 A	IP 65	ECE-R28	100,000x
S92 Set	002768821	1 set (2 pcs)	335 / 435 Hz	113±3 dB (A)	2x72 W	24 V	≤3.0 A	IP 65	ECE-R28	100,000x
S130 Set	004811071	1 set (2 pcs)	280 / 380 Hz	118±3 dB (A)	2x72 W	24 V	≤3.0 A	IP 54	ECE-R28	100,000x
B133 Set	003399101	1 set (2 pcs)	375 / 500 Hz	118 dB (A)	2x84 W	24 V	≤3.5 A	IP 65	ECE-R28	100,000x
B133	003399061	1 piece	375 Hz	118 dB (A)	84 W	24 V	≤3.5 A	IP 65	ECE-R28	100,000x
	003399071	1 piece	500 Hz	118 dB (A)	84 W	24 V	≤3.5 A	IP 65	ECE-R28	100,000x
DL50 Set	004811042	1 set (2 pcs)	310 / 380 Hz	114±3 dB (A)	2x72 W	12 V	≤3.5 A	IP 54	ECE-R28	100,000x
DL50	004811001	1 piece	310 Hz	114±3 dB (A)	72 W	12 V	≤3.5 A	IP 54	ECE-R28	100,000x
	004811011	1 piece	380 Hz	114±3 dB (A)	72 W	12 V	≤3.5 A	IP 54	ECE-R28	100,000x
DL50 Set	004811132	1 set (2 pcs)	310 / 380 Hz	114±3 dB (A)	2x84 W	24 V	≤6.0 A	IP 54	ECE-R28	100,000x
DL50	004811021	1 piece	310 Hz	114±3 dB (A)	84 W	24 V	≤6.0 A	IP 54	ECE-R28	100,000x
	004811031	1 piece	380 Hz	114±3 dB (A)	84 W	24 V	≤6.0 A	IP 54	ECE-R28	100,000x
B36	002768082	1 piece	335 Hz	116±2 dB (A)	72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
	002768551	1 piece	400 Hz	116±2 dB (A)	72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
	002768382	1 piece	335 Hz	116±2 dB (A)	72 W	24 V	≤6.0 A	IP 65	ECE-R28	100,000x
	002768431	1 piece	400 Hz	116±2 dB (A)	72 W	24 V	≤6.0 A	IP 65	ECE-R28	100,000x
M26	002952861	1 piece	335 Hz	115 dB (A)	66 W	12 V	≤5.5 A	IP 54	ECE-R28	100,000x
	002952811	1 piece	400 Hz	115 dB (A)	66 W	12 V	≤5.5 A	IP 54	ECE-R28	100,000x
	006958901	1 piece	335 Hz	115 dB (A)	80 W	12 V	≤5.5 A	IP 54	ECE-R28	100,000x
CA10 Set	003001651	1 set	600 / 756 Hz	≥115 dB (A)	-	12 V	-	IP 54	ECE-R28	50,000x
	003001661	1 set	600 / 756 Hz	≥115 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
CA12 Set	003001981	1 set	780 / 820 / 880 Hz	≥115 dB (A)	-	12 V	-	IP 54	ECE-R28	50,000x
	003001671	1 set	630 / 795 / 840 Hz	≥115 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
CA20	013410011	1 piece	400 Hz	≥118 dB (A)	-	12-24 V	-	IP 54	ECE-R28	50,000x
CA26	013410081	1 piece	600 / 756 Hz	≥120 dB (A)	-	12 V	-	IP 54	ECE-R28	80,000x
	013410091	1 piece	600 / 756 Hz	≥120 dB (A)	-	24 V	-	IP 54	ECE-R28	80,000x
CA30	013410001	1 piece	370 Hz	≥120 dB (A)	-	12 V	-	IP 54	ECE-R28	50,000x
	013410021	1 piece	370 Hz	≥120 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
CA34	005411001	1 piece	300 / 350 Hz	≥122 dB (A)	-	12-24 V	-	IP 54	ECE-R28	80,000x
BM10	009148141	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
BM10, Blister	009148142	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
BM10, ground plate	009148161	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
BM10, SAE J994	009148221	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
BM20	009148001	1 piece	-	90 dB (A)	12 W	12-24 V	≤0.2 A	IP 67	ECE-R10	300,000x
	009148011	1 piece	-	97 dB (A)	12 W	12-24 V	≤0.4 A	IP 67	ECE-R10	300,000x
BM30	009148021	1 piece	-	107 dB (A)	12 W	12-24 V	≤0.7 A	IP 67	ECE-R10	300,000x
	996139301	1 piece	-	112±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	500,000x
Motorcycles										
S70 Set	012588011	1 set (2 pcs)	380 / 480 Hz	108±3 dB (A)	2x18 W	12 V	≤1.5 A	IP 65	-	50,000x
S70	012588061	1 piece	460 Hz	108±3 dB (A)	18 W	12 V	≤1.5 A	IP 65	-	50,000x



CONVERSION HELLA B133 SUPER-TONE HORN



Depending on the application and conditions, you might find that your horn is not loud enough for safety purposes. In this case, it may be a good idea to install a louder horn so that a sufficient warning tone can be produced in dangerous situations. In order to demonstrate this kind of conversion and what you need to take into account, let's consider the example of the Audi TT/RS.

In most cases, the more powerful horns consume more (electrical) power, meaning that they cannot simply be installed in a vehicle without additional work. Only experienced personnel should therefore handle the conversion.



Detailed installation instructions for the Audi TT/RS and others for the Jeep Grand Cherokee can be found in the HELLA TECH WORLD.

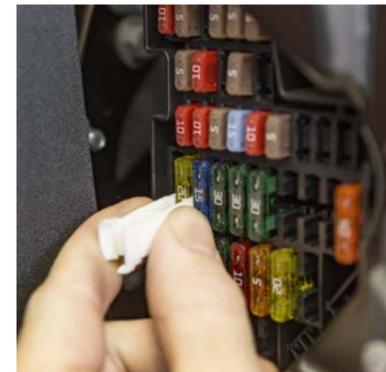
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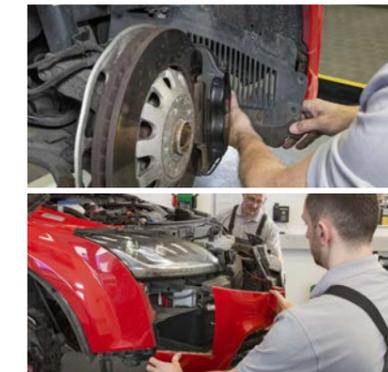
Note!
Should the vehicle wiring or fusing prove to be insufficient, it is essential that they are altered to suit the new installation situation.

Prior to conversion, please check and/or ensure the following:

- Carefully read the assembly instructions enclosed with the product
- Find out the power consumption of super-tone horns using the technical data
- Based on this information, check the vehicle wiring and fusing of the originally installed horns to see if they can be used



Remove the fuse for the „Horn“ circuit from the fuse box in order to cut the power supply of the acoustic signaling units for the duration of the electric connection.



- Switch off the ignition
- Remove key from ignition
- Remove bumper cover at front



- Remove originally installed horns with bracket
- Disconnect electrical plug connections from the horns
- Install super-tone horns



Note!
Due to the size of the new super-tone horns, check the optimal assembly position. The housing body must have sufficient leeway for swinging into all directions and should be in contact with the adjacent body parts.



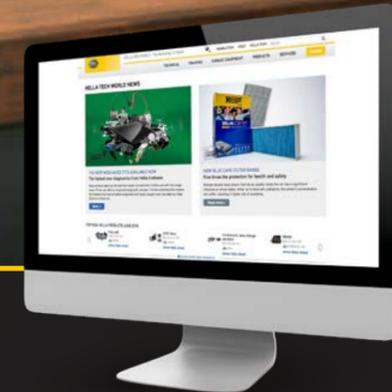
- Prepare electric connections for the new super-tone horns
- Connect electric connections to the super-tone horns, then plug in and fix wiring harness to the cable guides
- Insert fuse and conduct functional test



If the functional test is successful, the bumper cover can once again be mounted with all assembly parts, thus fully restoring the vehicle.

Note!
The housing body including retaining plate determine horn's tone. Changing the retaining plate on the super-tone horn can negatively impact the acoustic pattern.

HORNS FROM HELLA SERVICES



WEBSITE
Hear the roar: Test several horn sounds and get detailed product information

www.hella.com/horns



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