



## ACOUSTIC SIGNAL UNITS





## 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.

# CONTENTS

Introduction	04
Acoustic devices	06
Product introduction	08
Product range   Cars	14
Product range   Commercial vehicles	20
Product range   Motorcycles	25
Product overview	26
Online services	28

## 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](http://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.

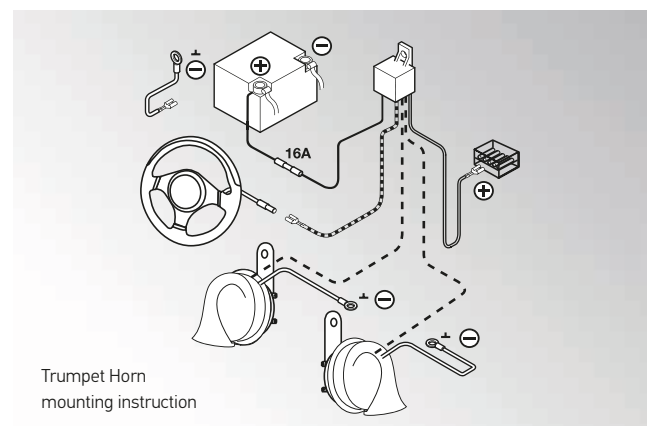
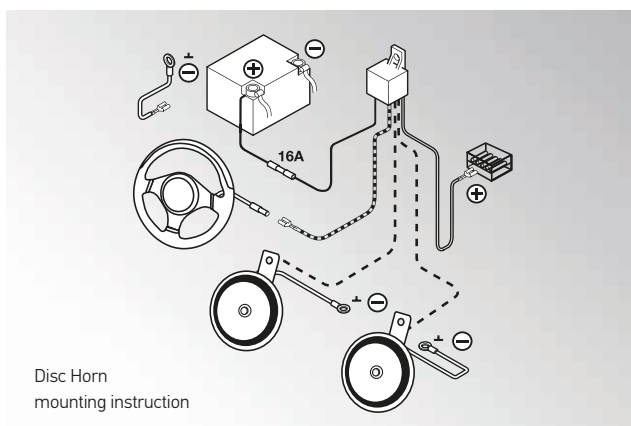
Our manufacturing plant HELLA India Automotive is fully committed to research and development as well as displaying a strict adherence to quality manufacturing. Leveraging HELLA's worldwide central resources for vehicle electronics, HELLA enforces the principles of developing state-of-the-art products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

## 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).

# DISC HORN



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

## FUNCTIONAL PRINCIPLE



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.

## NOMINAL VOLTAGE



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

## AIR TRUMPET HORNS



### EFFICIENT SOUND

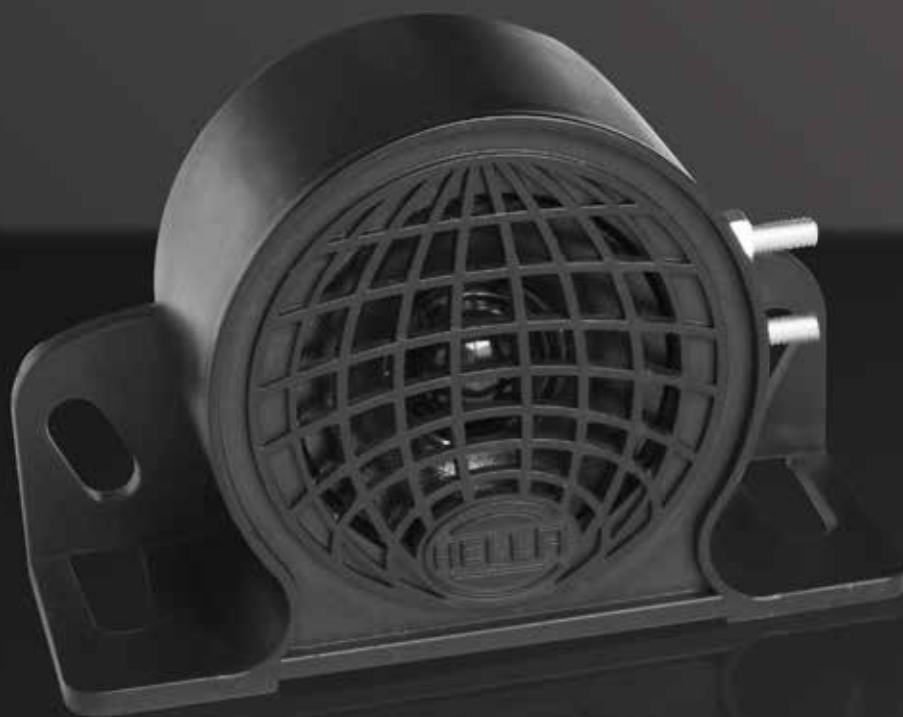
HELLA's air trumpet horns produce a loud, far-reaching sound. Ideal for vehicles which need to be heard in traffic.

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.





## EXPLORE THE POSSIBILITIES PRODUCT RANGE

eLONG-LIFE HORNS

HEAVY DUTY HORNS

ESSENTIAL HORNS

COMPRESSED AIR HORNS

STYLE HORNS

BACK-UP ALARMS

PERFORMANCE HORNS

MOTORCYCLE HORNS

OE-CONNECT HORNS



ENJOY YOUR  
URBAN JUNGLE  
HEAR THE ROAR



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**LOUD**  
Small size Disc Horns

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**HARMONIC**

Trumpet Horns



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**BLASTER**

Large size Disc Horns



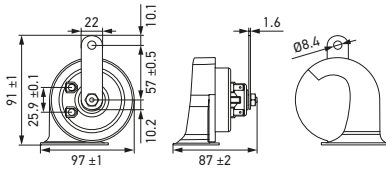
# CARS

## 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.

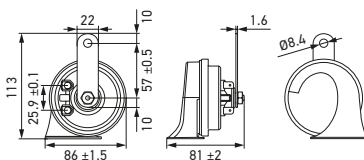


Part no.	Quantity	Description
3FH 007 728-981	1 set (2 pcs)	TE40 Set

# ESSENTIAL HORNS

### TE20 SERIES

#### TRUMPET HORN | BLACK SLEEK



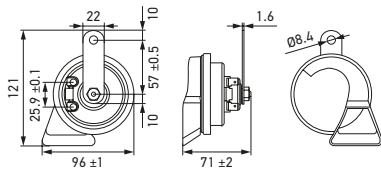
- Black ABS housing with glossy finished
- Project a wide sound emission for safe driving on the road.
- Wide range of sounds when you install a set of low and high tones.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
3FH 011 225-831	1 set (2 pcs)	TE20 Set

# ESSENTIAL HORNS

## TE22 SERIES TRUMPET HORN | BLACK TWIN TONE

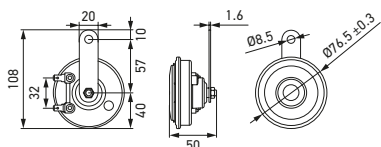


- Black trumpet and space-saving design.
- Loud acoustic signaling for more safety in traffic.
- Wide range of sounds when you install a set of low and high tones.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
3FH 007 728-831	1 set (2 pcs)	TE22 Set



## S77 SERIES DISC HORN | CLASSIC

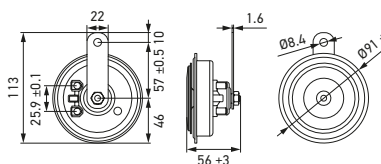


- Classic sound with high sound density.
- Less power to produce a powerful sound.
- Powder-coated corrosion-resistant surface.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
3AM 012 588-151	<sup>(1)</sup> 1 set (2 pcs)	S77 Set
3AL 012 588-351	<sup>(2)</sup> 1 piece	S77, 430 Hz



## S92 SERIES DISC HORN | STRONG TONE



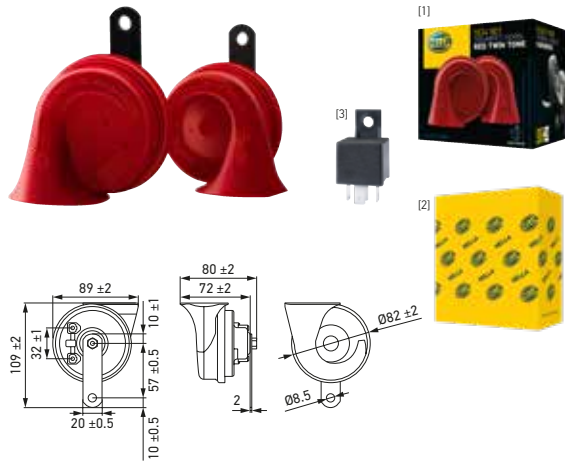
- Strong and focused sound emission.
- Fully shaped oscillator for optimal sound performance.
- Original equipment quality horns you can trust from a global leader.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
3AM 011 225-871	1 set (2 pcs)	S92 Set



# 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
<b>3FH 007 424-801</b>	<sup>[1]</sup> 1 set (2 pcs)	TE24 Set, includes relay <sup>[3]</sup>
<b>3FH 007 424-811</b>	<sup>[1]</sup> 1 set (2 pcs)	TE24 Set
<b>3FG 007 424-001</b>	<sup>[2]</sup> 1 piece	TE24, 400 Hz
<b>3FG 007 424-011</b>	<sup>[2]</sup> 1 piece	TE24, 500 Hz

## S90 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
<b>3AM 922 000-971</b>	<sup>[1]</sup> 1 set (2 pcs)	S90 Set
<b>3AL 922 000-951</b>	<sup>[2]</sup> 1 piece	S90, 415 Hz

## 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.

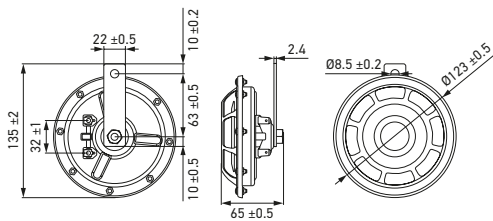
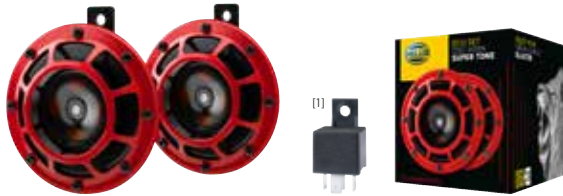


Part no.	Quantity	Description
<b>3AM 012 588-341</b>	<sup>[1]</sup> 1 set (2 pcs)	S98 Set
<b>3AL 012 588-291</b>	<sup>[2]</sup> 1 piece	S98, 400 Hz



# PERFORMANCE HORNS

## B133 SERIES DISC HORN | SUPER TONE

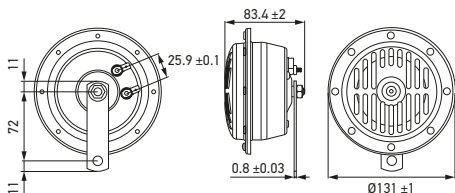


- Signature Red Grill Horn from HELLA.
- Traffic blaster, produces a penetrating strong sound.
- Ideal for all passenger cars and tough off-road use.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

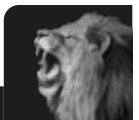


Part no.	Quantity	Description
3AG 003 399-801	1 set (2 pcs)	B133 Set, includes relay <sup>(1)</sup>

## S130 SERIES 12 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.



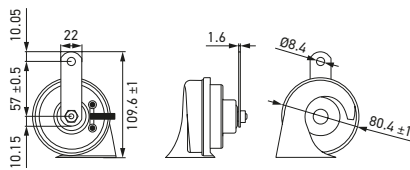
Part no.	Quantity	Description
3CB 004 811-091	1 set (2 pcs)	S130 Set

# OE-CONNECT HORNS

## TE26 SERIES TRUMPET HORN | OE CONNECTOR




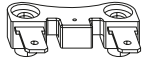


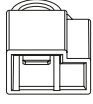

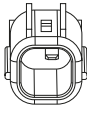



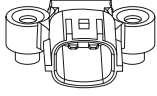

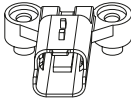

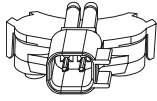

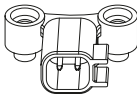
- OE connector for vehicle-specific applications.
- Loud acoustic signaling for more safety in traffic.
- Quick plug is easy to fit by end-consumer.
- With vehicle specific connector.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
3FH 012 010-021	1 set (2 pcs)	TE26 Set, for AUDI / VOLKSWAGEN
3FH 012 010-031	1 set (2 pcs)	TE26 Set, for AUDI / VOLKSWAGEN
3FH 012 010-041	1 set (2 pcs)	TE26 Set, for BMW
3FH 012 010-051	1 set (2 pcs)	TE26 Set, for BMW / MINI
3FH 012 010-061	1 set (2 pcs)	TE26 Set, for MERCEDES BENZ
3FH 012 010-081	1 set (2 pcs)	TE26 Set, for FORD
3FH 012 010-111	1 set (2 pcs)	TE26 Set, for TOYOTA
3FH 012 010-121	1 set (2 pcs)	TE26 Set, for HONDA
3FH 012 010-131	1 set (2 pcs)	TE26 Set, for MAZDA
3FH 012 010-141	1 set (2 pcs)	TE26 Set, for HYUNDAI / KIA
3FH 012 010-161	1 set (2 pcs)	TE26 Set, for RENAULT / DACIA
3FH 012 010-171	1 set (2 pcs)	TE26 Set, for FORD MONDEO
3FH 012 010-191	1 set (2 pcs)	TE26 Set, for TESLA

## OE CONNECTORS

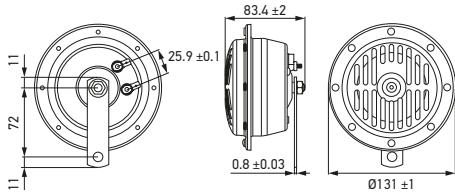
Product picture	Dimensional sketches	OE connector for
		<b>3FH 012 010-021</b> For AUDI / VOLKSWAGEN
		<b>3FH 012 010-031</b> For AUDI / VOLKSWAGEN
		<b>3FH 012 010-041</b> For BMW
		<b>3FH 012 010-051</b> For BMW / MINI

Product picture	Dimensional sketches	OE connector for
		<p><b>3FH 012 010-061</b> For MERCEDES BENZ</p>
		<p><b>3FH 012 010-081</b> For FORD</p>
		<p><b>3FH 012 010-111</b> For TOYOTA</p>
		<p><b>3FH 012 010-121</b> For HONDA</p>
		<p><b>3FH 012 010-131</b> For MAZDA</p>
		<p><b>3FH 012 010-141</b> For HYUNDAI / KIA</p>
		<p><b>3FH 012 010-161</b> For RENAULT / DACIA</p>
		<p><b>3FH 012 010-171</b> For FORD MONDEO</p>
		<p><b>3FH 012 010-191</b> For TESLA</p>

# COMMERCIAL VEHICLES HEAVY DUTY HORNS



## S130 SERIES 24 V DISC HORN | AVANT TONE CHROME



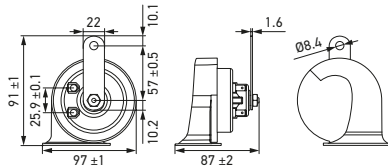
1x280 Hz  
 1x380 Hz  
 118 ± 3 dB (A)  
 2x 72 W  
 24 V  
 ≤ 3.0 A  
 IP 54  
 ECE R28  
 100,000x

- 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
3CB 004 811-071	1 set (2 pcs)	S130 Set

## TE30 SERIES 24 V TRUMPET HORN | HARMONIC

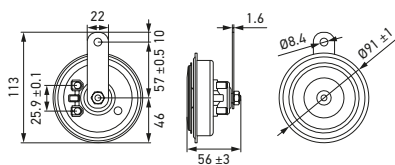


1x410 Hz  
 1x510 Hz  
 110 ± 3 dB (A)  
 2x 72 W  
 24 V  
 ≤ 3.0 A  
 IP 65  
 ECE R28  
 100,000x

- 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
3FH 940 800-821	1 set (2 pcs)	TE30 Set

## S92 SERIES 24 V DISC HORN | STRONG TONE



1x335 Hz  
 1x435 Hz  
 113 ± 3 dB (A)  
 2x 72 W  
 24 V  
 ≤ 3.0 A  
 IP 65  
 ECE R28  
 100,000x

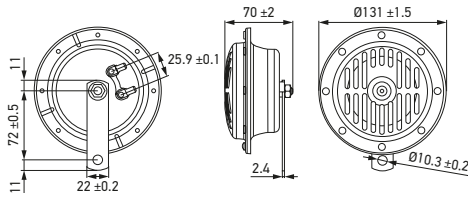
- Stong and focused sound emission.
- Fully shaped oscillator for optimal sound performance.
- Original equipment quality horns you can trust from a global leader.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.



Part no.	Quantity	Description
3AM 002 768-821	1 set (2 pcs)	S92 Set

# HEAVY DUTY HORNS

## DL50 SERIES DISC HORN | HEAVY TONE

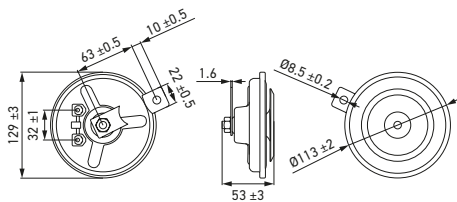


- Deep and penetrating warning signal.
- Riveted assembly instead of screws to increase reliability.
- Ideal for all kinds of commercial vehicles.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M10 fixing screw.

Part no.	Quantity	Description
3CB 004 811-042	<sup>[1]</sup> 1 set (2 pcs)	DL50 Set, 12 V, 2x72 W, ≤ 3.5 A
3CA 004 811-001	<sup>[2]</sup> 1 piece	DL50, 310 Hz, 12 V, 72 W, ≤ 3.5 A
3CA 004 811-011	<sup>[2]</sup> 1 piece	DL50, 380 Hz, 12 V, 72 W, ≤ 3.5 A
3CB 004 811-132	<sup>[1]</sup> 1 set (2 pcs)	DL50 Set, 24 V, 2x84 W, ≤ 6.0 A
3CA 004 811-021	<sup>[2]</sup> 1 piece	DL50, 310 Hz, 24 V, 84 W, ≤ 6.0 A
3CA 004 811-031	<sup>[2]</sup> 1 piece	DL50, 380 Hz, 24 V, 84 W, ≤ 6.0 A



## B36 SERIES DISC HORN | RICH TONE

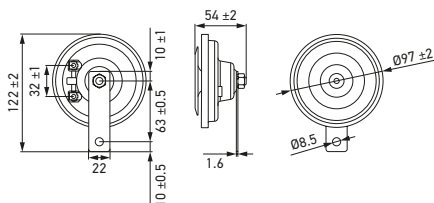


- High quality rich tone.
- Penetrating, long-range tone for additional safety.
- Enhanced quality and durability.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
3BA 002 768-082	1 piece	B36



## 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.

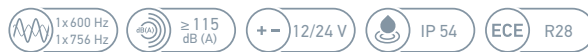
Part no.	Quantity	Description
3AL 002 952-811	1 piece	M26
3AL 002 952-817	40 pieces	M26



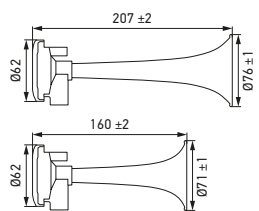


# COMPRESSED AIR HORNS

## CA10 SERIES RED TWIN TONE AIR HORNS | 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



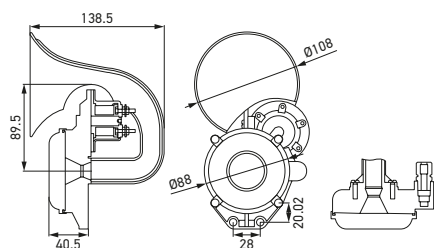
Part no.	Quantity	Description
3PB 003 001-631	1 set*	CA10, 12 V
3PB 003 001-641	1 set*	CA10, 24 V

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

## 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

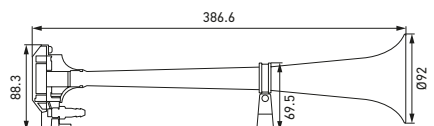


Part no.	Quantity	Description
3PA 013 410-011	1 piece	CA20 <sup>(1)</sup>
3PA 013 410-041	1 piece	CA20, wiring harness <sup>(2)</sup>

## CA30 SERIES CHROME SINGLE AIR HORNS | 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

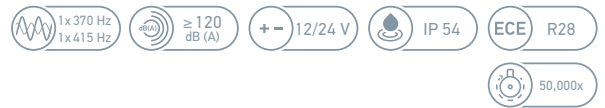
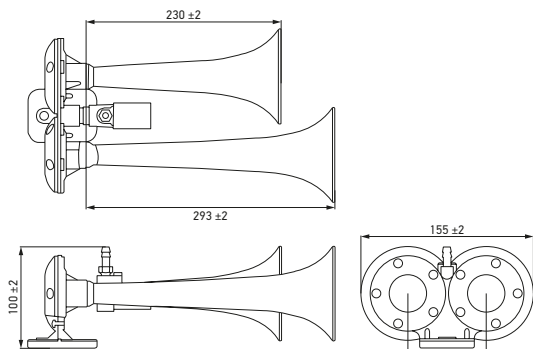


Part no.	Quantity	Description
3PA 013 410-001	1 piece	CA30, 12 V
3PA 013 410-021	1 piece	CA30, 24 V

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

# COMPRESSED AIR HORNS

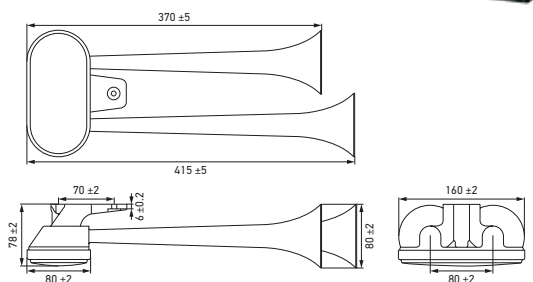
## CA32 SERIES CHROME DOUBLE AIR HORN | HIGH WAY



- Wide and far reaching sound.
- Chromed finished trumpet.
- For vehicles with a compressed air brake system.
- With flat connections of 6.3 mm, open, blade type.
- Pressure Range: 6–8 bar

Part no.	Quantity	Description
3PB 013 410-051	1 piece	CA32, 12 V
3PB 013 410-061	1 piece	CA32, 24 V
9XL 715 991-031	1 piece	CA32 Accessories, solenoid valve 12 V
9XL 715 991-041	1 piece	CA32 Accessories, solenoid valve 24 V

## CA34 SERIES CHROME DOUBLE AIR HORN | HIGH WAY



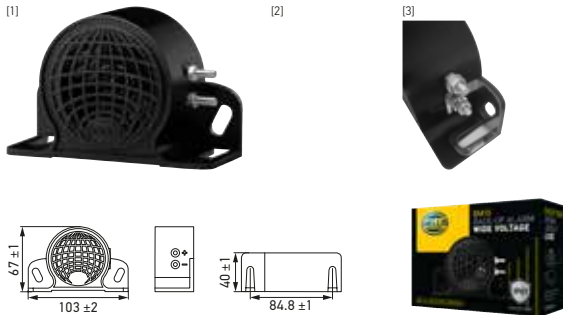
- Wide and far reaching sound.
- Chromed lid and trumpet, matt black base.
- For vehicles with a compressed air brake system.
- Suitable for tubular fittings Ø 8 mm.
- 2 holes for fixing screws M10.
- Pressure Range: 4–8.3 bar

Part no.	Quantity	Description
3PB 005 411-001	1 piece	CA34
9XL 715 989-001	1 piece	CA34 Accessories, Hand-operated valve
9XL 715 991-001	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

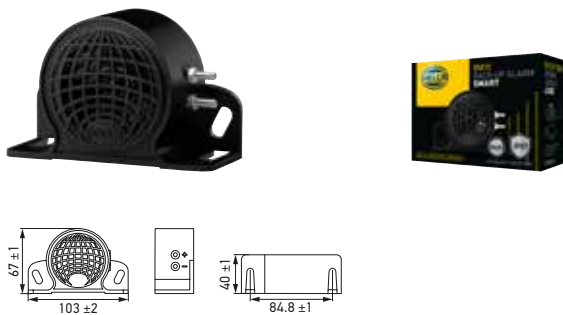


110 ± 3 dB (A)
 12 W
 12-48 V
 ≤ 0.6 A
 IP 67
 ECE R10
 300,000x

- 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
3SL 009 148-141	1 piece	BM10 <sup>[1]</sup>
3SL 009 148-151	1 piece	BM10, wiring harness <sup>[2]</sup>
3SL 009 148-161	1 piece	BM10, ground plate <sup>[3]</sup>

## BM10 SERIES BACK-UP ALARM | SMART

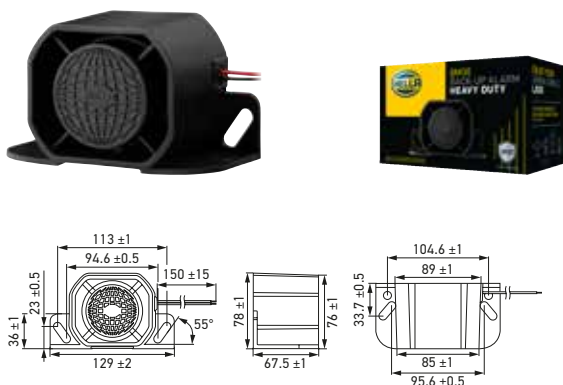


97-110 dB (A)
 12 W
 12-48 V
 ≤ 0.6 A
 IP 67
 ECE R10
 300,000x

- 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.
- Automatic dB(A) adjustment to environments.
- Stud terminal connection.

Part no.	Quantity	Description
3SL 009 148-211	1 piece	BM10, automatic dB(A) adjustment

## BM30 SERIES BACK-UP ALARM | HEAVY DUTY



112 ± 3 dB (A)
 12 W
 12-48 V
 ≤ 0.6 A
 IP 67
 ECE R10
 500,000x

- 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
3SL 996 139-301	1 piece	BM30

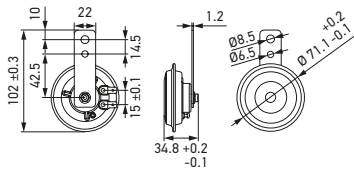
# MOTORCYCLES

## MOTORCYCLE HORNS



### S70 SERIES

DISC HORN | FOR SCOOTER



108 ± 3 dB (A)
 (2x) 18 W
 +- 12 V
 ≤ 1.5 A
 IP 65
 50,000x

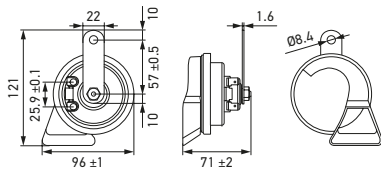
- Recommend for electric scooter.
- Compact and lightweight.
- Good price-performance ratio.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M6 and M8 fixing screw.<sup>[1]</sup>
- Bracket on horn for M8 fixing screw.<sup>[2]</sup>

Part no.	Quantity	Description
3AL 012 588-011	<sup>[1]</sup> 1 set (2 pcs)	S70 Set, 380 / 480 Hz
3AL 012 588-061	<sup>[2]</sup> 1 piece	S70, 460 Hz



### TE22 SERIES

TRUMPET HORN | COMPACT











500 Hz
 110 ± 3 dB (A)
 60 W
 +- 12 V
 ≤ 5.0 A
 IP65
 ECE R28
 100,000x

- Black trumpet and space-saving design.
- Loud acoustic signaling for more safety in traffic.
- Single piece trumpet is a good option for scooter.
- With 6.3 mm blade terminal contacts, open.
- Bracket on horn for M8 fixing screw.

Part no.	Quantity	Description
3FG 011 225-241	1 piece	TE22



# PRODUCT OVERVIEW

Short code	Part no.	Quantity								
<b>Cars</b>										
TE40 Set	3FH 007 728-981	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	3FH 011 225-831	1 set (2 pcs)	400 / 500 Hz	110 ± 3 dB (A)	2x72 W	12 V	≤ 6.0 A	IP 65	ECE-R28	100,000x
TE22 Set	3FH 007 728-831	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	3AM 012 588-151	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	3AL 012 588-351	1 piece	430 Hz	110 ± 3 dB (A)	48 W	12 V	≤ 4.0 A	IP 65	ECE-R28	80,000x
S92 Set	3AM 011 225-871	1 set (2 pcs)	335 / 435 Hz	113 ± 3 dB (A)	2x60 W	12 V	≤ 5.0 A	IP 65	ECE-R28	100,000x
TE24 Set	3FH 007 424-801	1 set (2 pcs)	400 / 500 Hz	110 ± 3 dB (A)	2x72 W	12 V	≤ 6.0 A	IP 65	ECE-R28	100,000x
	3FH 007 424-811	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	3FG 007 424-001	1 piece	400 Hz	110 ± 3 dB (A)	72 W	12 V	≤ 6.0 A	IP 65	ECE-R28	100,000x
	3FG 007 424-011	1 piece	500 Hz	110 ± 3 dB (A)	72 W	12 V	≤ 6.0 A	IP 65	ECE-R28	100,000x
S90 Set	3AM 922 000-971	1 set (2 pcs)	350 / 415 Hz	111 ± 3 dB (A)	2x42 W	12 V	≤ 3.5 A	IP 65	ECE-R28	100,000x
S90	3AL 922 000-951	1 piece	415 Hz	111 ± 3 dB (A)	42 W	12 V	≤ 3.5 A	IP 65	ECE-R28	100,000x
S98 Set	3AM 012 588-341	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	3AL 012 588-291	1 piece	400 Hz	115 ± 3 dB (A)	54 W	12 V	≤ 4.5 A	IP 65	ECE-R28	80,000x
B133 Set	3AG 003 399-801	1 set (2 pcs)	300 / 500 Hz	118 ± 3 dB (A)	2x66 W	12 V	≤ 5.5 A	IP 65	ECE-R28	100,000x
S130 Set	3CB 004 811-091	1 set (2 pcs)	280 / 380 Hz	118 ± 3 dB (A)	2x60 W	12 V	≤ 5.0 A	IP 54	ECE-R28	100,000x
TE26 Set										
For AUDI / VOLKSWAGEN	3FH 012 010-021	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 AUDI / VOLKSWAGEN	3FH 012 010-031	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	3FH 012 010-041	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 / MINI	3FH 012 010-051	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 MERCEDES BENZ	3FH 012 010-061	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	3FH 012 010-081	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	3FH 012 010-111	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	3FH 012 010-121	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 MAZDA	3FH 012 010-131	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 / KIA	3FH 012 010-141	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 RENAUL / DACIA	3FH 012 010-161	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 MONDEO	3FH 012 010-171	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 TESLA	3FH 012 010-191	1 set (2 pcs)	400 / 500 Hz	110 ± 3 dB (A)	2x72 W	12 V	≤ 6.0 A	IP 65	ECE-R28	100,000x

eLONG-LIFE HORNS

PERFORMANCE HORNS

COMPRESSED AIR HORNS

ESSENTIAL HORNS

OE-CONNECT HORNS









BACK-UP ALARMS


STYLE HORNS


HEAVY DUTY HORNS


MOTORCYCLE HORNS





Short code	Part no.	Quantity								
<b>Commercial Vehicles</b>										
S130 Set	3CB 004 811-071	1 set (2 pcs)	280 / 380 Hz	118±3 dB (A)	2x72 W	24 V	≤3.0 A	IP 54	ECE-R28	100,000x
TE30 Set	3FH 940 800-821	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	3AM 002 768-821	1 set (2 pcs)	335 / 435 Hz	113±3 dB (A)	2x72 W	24 V	≤3.0 A	IP 65	ECE-R28	100,000x
DL50 Set	3CB 004 811-042	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	3CA 004 811-001	1 piece	310 Hz	114±3 dB (A)	72 W	12 V	≤3.5 A	IP 54	ECE-R28	100,000x
	3CA 004 811-011	1 piece	380 Hz	114±3 dB (A)	72 W	12 V	≤3.5 A	IP 54	ECE-R28	100,000x
DL50 Set	3CB 004 811-132	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	3CA 004 811-021	1 piece	310 Hz	114±3 dB (A)	84 W	24 V	≤6.0 A	IP 54	ECE-R28	100,000x
	3CA 004 811-031	1 piece	380 Hz	114±3 dB (A)	84 W	24 V	≤6.0 A	IP 54	ECE-R28	100,000x
B36	3BA 002 768-082	1 piece	335 Hz	116±2 dB (A)	72 W	12 V	≤6.0 A	IP 65	ECE-R28	100,000x
M26	3AL 002 952-811	1 piece	400 Hz	105±3 dB (A)	66 W	12 V	≤5,5 A	IPX9K	ECE-R28	100.000 x
	3AL 002 952-817	40 pieces	400 Hz	105±3 dB (A)	66 W	12 V	≤5,5 A	IPX9K	ECE-R28	100.000 x
CA10	3PB 003 001-631	1 set (2 pcs)	600 / 756 Hz	≥115 dB (A)	-	12 V	-	IP 54	ECE-R28	50,000x
	3PB 003 001-641	1 set (2 pcs)	600 / 756 Hz	≥115 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
CA20	3PA 013 410-011	1 piece	400 Hz	≥118 dB (A)	-	12-24 V	-	IP 54	ECE-R28	50,000x
	3PA 013 410-041	1 piece	400 Hz	≥118 dB (A)	-	12-24 V	-	IP 54	ECE-R28	50,000x
CA30	3PA 013 410-001	1 piece	370 Hz	≥120 dB (A)	-	12 V	-	IP 54	ECE-R28	50,000x
	3PA 013 410-021	1 piece	370 Hz	≥120 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
CA32	3PB 013 410-051	1 piece	370 / 415 Hz	≥120 dB (A)	-	12 V	-	IP 54	ECE-R28	50,000x
	3PB 013 410-061	1 piece	370 / 415 Hz	≥120 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
CA34	3PB 005 411-001	1 piece	300 / 350 Hz	≥122 dB (A)	-	24 V	-	IP 54	ECE-R28	50,000x
BM10	3SL 009 148-141	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
	3SL 009 148-151	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
	3SL 009 148-161	1 piece	-	110±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
	3SL 009 148-211	1 piece	-	97-110 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	300,000x
BM30	3SL 996 139-301	1 piece	-	112±3 dB (A)	12 W	12-48 V	≤0.6 A	IP 67	ECE-R10	500,000x
<b>Motorcycles</b>										
S70 Set	3AL 012 588-011	1 set (2 pcs)	380 / 480 Hz	108±3 dB (A)	2x18 W	12 V	≤1.5 A	IP 65	-	50,000x
S70	3AL 012 588-061	1 piece	460 Hz	108±3 dB (A)	18 W	12 V	≤1.5 A	IP 65	-	50,000x
TE22	3FG 011 225-241	1 piece	500 Hz	110±3 dB (A)	60 W	12 V	≤5.0 A	IP 65	ECE-R28	100,000x

 Frequency [Hz]


 Sound pressure level @ 2m [dB (A)]


 Power consumption [W]

 Rated voltage [V]


 Current consumption [A]


 IP rating

 Type approval


 Service life (ECE)

**Cars**


 Passenger car


 Off-road car

**Motorcycles**

 Motorcycles

**Commercial Vehicles**

 Truck more 3.5 t

 Truck up to 3.5 t

 Bus

 Tractor



## 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.

[www.hella.com/techworld](http://www.hella.com/techworld)







**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

**Note!**

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



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](http://www.hella.com/horns)





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