

DISCREET ACOUSTICS MODULAR SERIES

FULLY MODULAR SYSTEM FOR MAXIMUM REQUIREMENTS

The Discreet Acoustics Modular Series from AKG Acoustics is being used worldwide and has proven its worth for many years. It brilliantly fulfils the three key requirements that are essential for sound system applications.

Modularity: Depending on the specific purpose, “special wishes” can often be fulfilled only by modular systems. The AKG Discreet Acoustics Modular Series offers a choice of five capsule modules with different polar patterns and frequency responses. A wide range of goose-necks and installation modules is also available. Besides, there are special-pur-

pose modules for applications that are not covered by any other products available. They can be used as wireless or lavalier microphones as well as for single-user applications.

Reliability: A wide range of features minimizes the risk of operating errors, material fatigue, or signal dropouts. The LED ring and self-cleaning gold-plated contacts for the threaded connections are standard, as are anti-twist cables (HM 1000) and a switchable bass rolloff filter.

Low profile: The extremely compact design and matte finish underscore the

inconspicuous appearance of the Discreet Acoustics Modular Series. The low-profile installation modules ensure quick setup and takedown of all versions of the Modular Series.

The excellent response and extremely good intelligibility make the Discreet Acoustics Modular Series the first choice whenever quality and reliability have top priority.

Small wonder that decision makers all over the world appreciate AKG as a professional partner.



Added reliability: LED ring

All installation modules (except the LM 3) feature an LED ring. A world first, it uses special circuitry to operate off standard phantom power. The LED ring has the following modes:

System standby:

In this mode (factory default) the LED ring glows dimly to indicate that the system has been wired correctly and phantom power is on. The operator will know at a glance whether the hardware has been installed correctly. There is no need to test each microphone.

Mic On:

When powered from an external supply, the LED ring can be configured such that it will only light (brightly) when the microphone is on. (All installation modules except for E versions and LM 3).

Off:

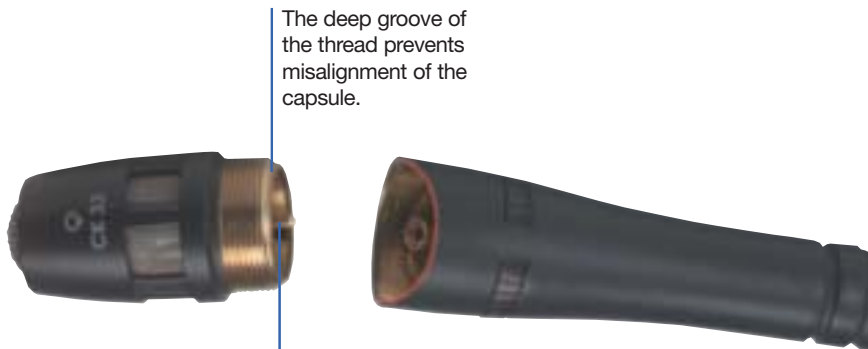
If none of the above functions is desired, the LED ring can be deactivated. In this mode, it is practically invisible (applies to all installation modules).



Added reliability: Tested for stability

A high quality gooseneck bends precisely into the desired shape and is resistant to inadvertent readjustment. This stability of shape depends entirely on consistent resilience of the springs inside the gooseneck.

Therefore, all Discreet Acoustics Modular Series Gooseneck Modules are subjected to a rigorous quality test during which they are bent into extreme shapes and must keep their shape until bent again. Any gooseneck that does not pass this test is rejected.



The deep groove of the thread prevents misalignment of the capsule.

Large self-cleaning gold plated contacts that engage smoothly ensure secure connection.

Added reliability: Maximum contact area

The size of the contact area between the microphone capsule and the gooseneck is of crucial importance for the reliability of the entire installation. Instead of the failure-prone conventional point contacts, all Discreet Acoustics Modular Series products use large, self-cleaning gold plated contacts that engage in groove-and-tongue fashion.

In addition, a hard, rugged thread stabilizes the joint. The extremely deep groove of the thread prevents misalignment and ensures a long useful life of all Discreet Acoustics Modular Series products even if they are used in installations that are frequently reconfigured, or in mobile systems.

Added reliability: Protected against faulty operation

The phantom power adapter contains two jumpers that let you activate a 200 Hz bass rolloff and the LED ring ON/OFF mode.

Since the jumpers are hidden inside the adapter case they cannot be realigned unintentionally.



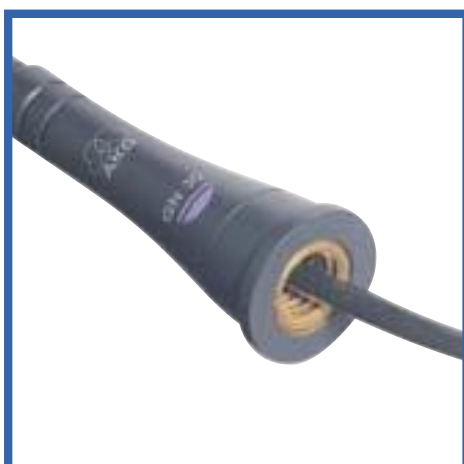
GN 15 (30, 50)

15, 30, OR 50 CM (6, 12, OR 20 IN.) SCREW-ON GOOSENECK

- Rugged construction
- Highly reliable contacts for capsule modules
- Integrated LED ring status indicator
- Integrated switchable bass rolloff
- Mini XLR connector or unterminated cable ends

For permanent screw-on installation, AKG offers goosenecks in various lengths: GN 15: approx. 15 cm (6 in.); GN 30: approx. 30 cm (12 in.); GN 50: approx. 50 cm (20 in.). Except for the GN 30 oc with unterminated cable ends, all come with a DPA in-line XLR phantom power adapter with integrated 200 Hz bass rolloff and LED

ON/OFF jumper. The DPA connects to any standard mixer input with 9 to 52 V power supply. The mini XLR connector will thread through any hole from 11 mm (0.44 in.) in diameter. This eliminates the need for large holes or awkward unsoldering and resoldering of the much larger phantom power adapter during installation.



Standard accessory: Phantom power adapter

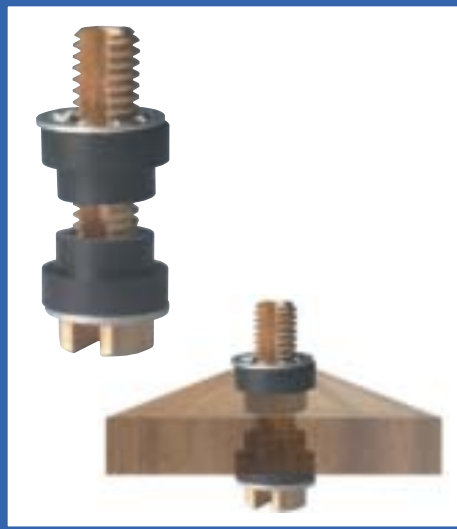
The external phantom power adapter of the GN series makes setting up the goosenecks much easier, since a small hole will suffice for threading through a mini XLR connector. Having disconnected the cable, the integrated bass cut can be set quite easily inside the phantom power adapter.

The phantom power adapter will operate off any available phantom power supply from 9 to 52 V, powering both the condenser capsule and the LED ring.



GN SERIES: INSTALLATION

EXAMPLES OF INSTALLING GN SERIES GOOSENECKS



Standard installation hardware

For permanent installation, a 3/8" screw is mounted from below. Two supplied rubber buffers reduce structure-borne noise. The screw requires a 14 mm (0.6 in.) opening.



MF-DA Mounting flange

The MF-DA mounting flange is the Discreet Acoustics Modular solution for situations where it is impractical to fix a gooseneck from below. The rugged, all-metal MF-DA can be screwed on permanently and allows you to route the cable above or below the tabletop.

This installation method is very popular for altars and lecterns.



ST 45 Table stand

The ST 45 table stand is the Discreet Acoustics Modular solution for mobile applications or installations where supporting surfaces must not be changed. GN Series goosenecks screw directly onto the ST 45.

Rugged construction and shock absorbing rubber feet ensure optimum stability and reduce footfall noise.



GN 15 (30, 50) E

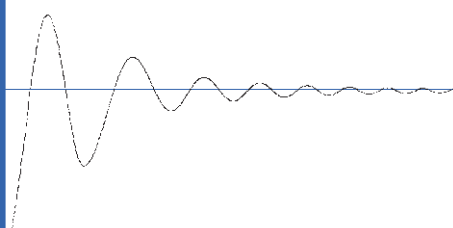
15, 30, OR 50 CM (6, 12, OR 20 IN.) GOOSENECK WITH INTEGRATED XLR CONNECTOR

- Rugged construction
- Highly reliable contacts for capsule modules
- Integrated LED ring status indicator
- Integrated, switchable bass cut
- Integrated XLR connector

All E-Series modules come with an integrated connector for quick setup and takedown.

The goosenecks are available in various lengths. GN 15 E: 23.5 cm (9.2 in.); GN 30 E: 38 cm (15 in.); GN 50 E: 57.2 cm (22.3 in.). Of course the series also has an integrated 200 Hz bass rolloff filter and LED ON/OFF jumper.

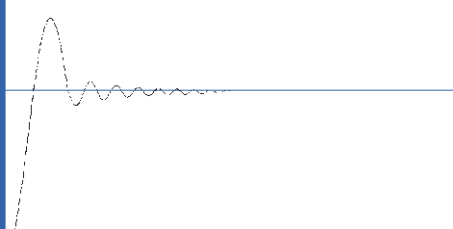
Fig. 1



Optimum suppression of structure-borne noise

An essential feature of the installation hardware described below is the attenuation of structure-borne noise that prevents the transmission of unwanted noise (footfall etc.). The amount of attenuation is determined by the material mix of the rubber shock mount. Modular Series installation modules use a mixture that is extremely efficient at frequencies below 200 Hz (e.g., knocking noise).

Fig. 2



Unlike standard rubber mixtures (fig.1) that respond to vibrations very slowly, the special AKG rubber mixture (fig. 2) absorbs vibrations practically immediately. This prevents successive shocks from adding up.

This rubber mixture is used in the H 600 and H 500.



GN 15 (30, 50) ES

15, 30, or 50 cm (6, 12, or 20 in.) GOOSENECK WITH INTEGRATED XLR CONNECTOR AND SWITCH

- Rugged construction
- Highly reliable contacts for capsule modules
- Integrated LED ring status indicator
- Integrated, switchable bass cut
- Integrated XLR connector
- Noiseless on/off switch

Gooseneck module for quick setup and takedown, with integrated noiseless on/off switch. The switch will default to “off” as the sound system is powered up and needs to be pressed to activate the microphone. An LED ring indicates whether the

microphone is on or off. The goosenecks are available in various lengths. GN 15 ES: 23.5 cm (9.2 in.); GN 30 ES: 38 cm (15 in.); GN 50 ES: 57.2 cm (22.3 in.). Of course the series also has an integrated 200 Hz bass rolloff filter and LED ON/OFF jumper.

On/off switch

The GN ES series features a completely noiseless switch. Rather than actually disconnecting the signal, it reduces the level by 26 dB, thus avoiding the irritating crackling sound when phantom powering is interrupted.

The switch is inconspicuously placed but easily accessible for simple handling even by inexperienced talkers.



GN E (ES) SERIES: INSTALLATION

EXAMPLES OF INSTALLING GN E AND GN ES SERIES GOOSENECKS



Security lock

PS 3 F-Lock

Classic lockable mounting accessory, for easy, material-friendly installation.
Required mounting hole: 17 mm (0.7 in.)



ST 45 + SA 60

For easiest installation and takedown of mobile sound systems, the ST 45 table stand can be teamed up with the SA 60 stand adapter for use with the Discreet Acoustics Compact Series. The massive base plate and shock-absorbing rubber feet eliminate footfall noise.



H 600

The H 600 offers optimum attenuation of structure-borne noise, high flexibility, and a theft-proof lock.
Required mounting hole: 53 mm (2.1 in.)



H 500

The H 500 is the most cost efficient solution for easy installation and takedown of sound systems.
Required mounting hole: 50 mm (2 in.)



ST 1 + SA 60

The ST 1 table stand can be teamed up with the SA 60 stand adapter for use with the Discreet Acoustics Compact Series. It is especially useful for uneven surfaces where the ST 45 base plate cannot be used.



GN 30 (50) MINIJACK

GOOSENECK SET WITH MINIJACK FOR FAST SETUP AND TAKEDOWN

- Gooseneck with screw thread and mini jack
- Installation module with permanently soldered remote phantom power adapter
- Extra large LED ring
- Highly reliable contacts for capsule modules
- Integrated switchable bass cut

The GN Minijack System makes installing and taking down goosenecks even quicker than before. The HCS mounting flange is built into the table. The permanently soldered phantom power adapter can be fastened to the underside of the tabletop by means of a clamp. The entire wiring remains invisible. The goosenecks can be mounted and taken down quite easily as

required, while the integrated mini jack ensures perfect contact reliability.

The LED ring can be powered directly. Depending on the microphone status, it can be activated and deactivated by a logic circuit (e.g., the logic out on an AS 16 x 12 automatic mixer), showing clearly which of the microphones are active.



HCS + GN 30 Minijack + CK 31

The "turbo" among modular systems

The GN Minijack System is especially useful whenever goosenecks of different lengths must be interchanged quickly, or when theft cannot be prevented with standard locking systems. The goosenecks together with the capsules can be quickly taken to a safe place without having to alter the setup. All that remains on the table is an unobtrusive disk.

In addition, the GN Minijack Mount features a rubber element on the underside of the disk, which attenuates structure-borne noise. When the gooseneck is detached, the opening can be closed with the attached flap to prevent dirt or liquids from getting inside.



HCS + DPA



HCS + GN Minijack



HCS + GN Minijack, installed



GN 15 (30, 50) E 5PIN

30 OR 50 CM (12 OR 20 IN.) GOOSENECK WITH CONTROLLABLE LED RING

- Gooseneck with 5-pin XLR connector
- Extra large controllable LED ring
- Highly reliable contacts for capsule modules
- Integrated switchable bass cut

Similar to the GN E Modules, the GN E 5Pin Modules come with an integrated connector with phantom power adapter.

One special feature is the 5-pin XLR connector, which ensures that the extra-large LED ring can be activated and deactivated using a separate power supply, e.g., a Logic out from the AS 16 x 12 automatic

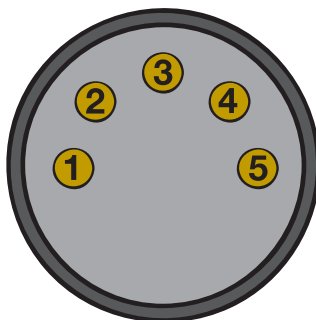
mixer. The LED ring is extra large for enhanced visibility. Of course the GN E 5Pin also has the same features as all Discreet Acoustics Modular Series installation modules, such as a gold-plated thread for screwing on the capsule, integrated switchable bass cut, and extremely strong joints that will withstand the toughest kind of usage.

5-pin connector

The 5-pin XLR connector allows the audio signal and the control voltage for the LED ring to be fed separately.

Connector pinout

- 1 – Audio ground
- 2 – LED ring +
- 3 – Audio inphase
- 4 – LED ring –
- 5 – Audio return



CK 31

DISCREET ACOUSTICS CARDIOID CAPSULE MODULE

- Cardioid polar pattern
- 125° pickup angle
- Screw-on Capsule Module
- Highly efficient windscreen

The cardioid is the most popular polar pattern since it can be used almost universally. The 125° pickup angle is especially suited for inexperienced or very

“vivacious” talkers who often fail to talk directly into the microphone. The body is identical to that of the CK 32 and CK 33.



CK 32

DISCREET ACOUSTICS OMNIDIRECTIONAL CAPSULE MODULE

- Omnidirectional polar pattern
- 360° pickup angle
- Screw-on Capsule Module
- Highly efficient windscreen

Due to its high sensitivity in all directions, the CK 32 omnidirectional Capsule is an excellent choice especially for lavalier

applications, but also for situations requiring ambience pickup. The body is identical to that of the CK 31 and CK 33.



CK 33

DISCREET ACOUSTICS HYPERCARDIOID CAPSULE MODULE

- Hypercardioid polar pattern
- 95° pickup angle
- Screw-on Capsule Module
- Highly efficient windscreen

Due to the narrow 95° pickup angle, the hypercardioid polar pattern is a good choice for all situations when noise typically arrives from the sides (especially in places of wor-

ship), where people talk into the microphone from greater distances, or where several talkers are grouped side by side. The body is identical to that of the CK 31 and CK 32.



CK 47

DISCREET ACOUSTICS HYPERCARDIOID CAPSULE MODULE

- Hypercardioid polar pattern
- 80° pickup angle
- Screw-on Capsule Module
- Studio quality shotgun capsule

The CK 47 combines an 80° pickup angle, studio quality audio, and clean off-axis response. It is an ideal tool wherever studio-standard sound quality is required, or for inexperienced talkers.

The CK 47 comes complete with a W 70 windscreen.



CK 80

DISCREET ACOUSTICS HYPERCARDIOID CAPSULE MODULE

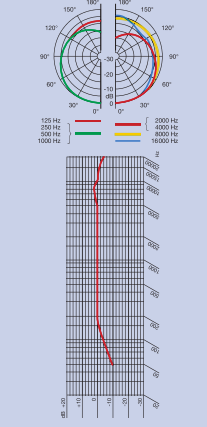
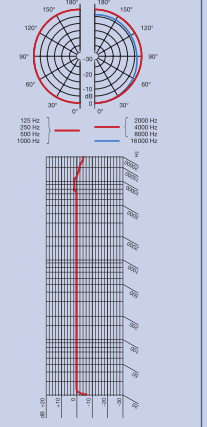
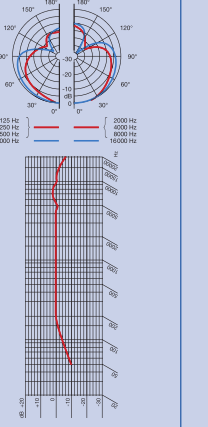
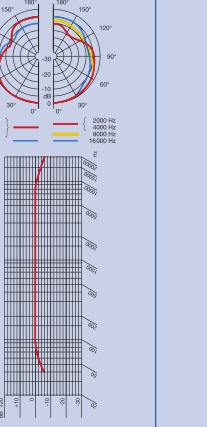
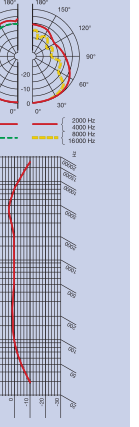
- Hypercardioid polar pattern
- 80° pickup angle
- Screw-on Capsule Module
- Shotgun capsule
- Speech optimized frequency response

An 80° pickup angle and speech optimized frequency response provide excellent intelligibility in acoustically critical environments. Its outstanding price/per-

formance ratio is just as convincing as its sound and high gain before feedback.

Complete with W 80 windscreen.



	CK 31	CK 32	CK 33	CK 47	CK 80
Polar pattern:	Cardioid	Omnidirectional	Hypercardioid	Hypercardioid	Hypercardioid
Pickup angle:	125°	360°	95°	80°	80°
Frequency range:	50 to 20,000 Hz	20 to 20,000 Hz	50 to 20,000 Hz	20 to 20,000 Hz	60 to 15,000 Hz
Sensitivity:	20 mV/PA = -34 dBV*	14 mV/PA = -37 dBV*	20 mV/PA = -34 dBV*	16.5 mV/PA = -36 dBV*	30 mV/PA = -30 dBV*
Max. SPL for 1% THD:	125 dB	125 dB	125 dB	133 dB	125 dB
Equivalent noise level:	21 dB-A	20 dB-A	21 dB-A	20 dB-A	17 dB-A
Signal/noise ratio (A-weighted):	73 dB	74 dB	73 dB	74 dB	77 dB
Electrical impedance:	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms
Recommended load impedance:	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms
Power requirement:	9 to 52 V phantom power **	9 to 52 V phantom power **	9 to 52 V phantom power **	9 to 52 V phantom power **	9 to 52 V phantom power **
Current consumption:	<3 mA	<3 mA	<3 mA	<3 mA	<3 mA
Connector:	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard	Discreet Acoustics Modular standard
Finish:	matte dark grey	matte dark grey	matte dark grey	matte dark grey	matte dark grey
Size (capsule dia. x length):	13.5 x 20 mm dia. (0.5 dia. x 0.8 in.)	13.5 x 20 mm dia. (0.5 dia. x 0.8 in.)	13.5 x 20 mm dia. (0.5 dia. x 0.8 in.)	13.5 x 146 mm dia. (0.5 dia. x 5.7 in.)	13.5 x 123 mm (0.5 dia. x 4.8 in.)
Net/shipping weight:	5/88 g (0.17/3.1 oz.)	5/88 g (0.17/3.1 oz.)	5/88 g (0.17/3.1 oz.)	39/248 g (1.4/8.7 oz.)	15/208 g (0.5/7.3 oz.)
Standard accessories:	W 30 windscreen	W 30 windscreen	W 30 windscreen	W 70 windscreen	W 80 windscreen
Polar diagram/frequency response:					
Item No.:	2765Z0020	2765Z0021	2765Z0022	2765Z0023	2765Z0024

* re 1 V/Pa

** requires DPA adapter, supplied with most installation modules

	GN Series	GN E Series	GN ES Series	GN Minijack Series	GN E 5Pin Series
Bass rolloff filter:	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz	250 Hz, -10 dB at 50 Hz
Electrical impedance:	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms	≤600 ohms
Recommended load impedance:	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms	≥2,000 ohms
Power requirement:	9 to 52 V phantom power to DIN/IEC	9 to 52 V phantom power to DIN/IEC	9 to 52 V phantom power to DIN/IEC	9 to 52 V phantom power	9 to 52 V phantom power
Current consumption:	<3 mA	<3 mA	<3 mA	<3 mA	<3 mA
Connector:	3-pin male XLR; GN 30 OC: stripped and tinned leads	3-pin male XLR	3-pin male XLR	3-pin male XLR	3-pin male XLR
Cable length:	1.5 m (5 ft.)	—	—	—	—
Finish:	matte dark grey	matte dark grey	matte dark grey	matte dark grey	matte dark grey
Size:	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)	max. dia.: 20 mm (0.8 in.)
GN 15 .. / GN 30 .. / GN 50 ..	length: 160/305/500 mm (6.3/12/20 in.)	length: 235/380/572 mm (9/14.9/22.4 in.)	length: 258/403/598 mm (10.2/15.7/22.4 in.)	length: 305/500 mm (12/20 in.)	length: 235/380/572 mm (9/14.9/22.4 in.)
Net/shipping weight (GN 15 ..):	72/400 g (2.5/14.1 oz.)	112/396 g (3.9/13.9 oz.)	72/400 g (2.5/14.1 oz.)	112/396 g (3.9/13.9 oz.)	112/396 g (3.9/13.9 oz.)
Net/shipping weight (GN 30 ..):	110/522 g (3.9/18.4 oz.)	160/530 g (5.6/18.7 oz.)	110/522 g (3.9/18.4 oz.)	110/522 g (3.9/18.4 oz.)	160/530 g (5.6/18.7 oz.)
Net/shipping weight (GN 50 ..):	120/495 g (4.2/17.5 oz.)	160/535 g (5.6/18.8 oz.)	120/495 g (4.2/17.5 oz.)	120/495 g (4.2/17.5 oz.)	160/535 g (5.6/18.8 oz.)
Standard accessories:	DPA phantom power adapter (integrated), screw set with rubber bush, PS 3 F-lock	DPA phantom power adapter (integrated), screw set with rubber bush, PS 3 F-lock	DPA phantom power adapter	DPA phantom power adapter, HCS	—
Optional accessories:	B 18, MF-DA installation flange, MK 9/10, N 62 E, N 66 E, ST 45	B 18, H 500, H 600, MF-DA installation flange, MK 9/10, N 62 E, N 66 E,	B 18, H 500, H 600, MF-DA installation flange, MK 9/10, N 62 E, N 66 E, SA 60, ST 45	MK 9/10, N 62 E, N 66 E, SA 60, ST 45	H 600 shock mount, H 500 shock mount
Item No.:	GN 15: 2765Z0001 GN 30: 2765Z0003 GN 50: 2765Z0008	GN 15 E: 2765Z0002 GN 30 E: 2765Z0004 GN 50 E: 2765Z0009	GN 15 ES: 2765Z0011 GN 30 ES: 2765Z0012 GN 50 ES: 2765Z0013	GN 30 Minijack: 2765Z0036 GN 50 Minijack: 2765Z0037	GN 15 E 5Pin: 2765Z0039 GN 30 E 5Pin: 2765Z0040 GN 50 E 5Pin: 2765Z0041

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