CELESTION

Introduction

Since 1924 Celestion has been associated with technical innovation coupled with design and manufacturing excellence.

Located in Ipswich, Suffolk, a county famous for its gentle rolling landscapes and home of England’s greatest landscape artist, John Constable, Celestion continues its proud traditions.

Traditional skills are carefully maintained but are now harnessed to the precision of new technology. A unique laser interferometry measuring system enables our research engineers to develop transducers whose behaviour can be precisely controlled. The result is carefully integrated loudspeaker systems which ensure outstanding performance and lifelong reliability for your listening pleasure.

Please pause for a few minutes to read the following notes before beginning to listen.

Unpacking and Aftercare

Your loudspeakers have been designed to a very high standard of performance and finish. The tough, attractive vinyl surfaces may be polished or sponged with a little warm, soapy water. If you use aerosol polish then please spray onto a cloth and keep all overspray away from the grille and the drive units beneath.

After unpacking, we suggest you retain all the packaging since you may need to transport them at a later date.

If you need to brush the grille fabric on the loudspeaker we recommend that you remove the grille to do so. Grasp the outer edges of the grille and apply firm pressure against the cabinet to effect easy removal.

Please avoid touching the cone of the bass unit since it is delicate and easily damaged. Remove build-up of dust gently blowing from time to time. The tweeter unit domes should also not be touched. Dust only by blowing and no attempt attempt to touch the treble dome behind its protective grille, since this will damage the dome and spoil its performance.

DL12 Series Two

Please note we strongly recommend you use the plinth but it is not essential. If you do decide to use it, please read on.

Unpacking and Building Up (you DO NOT need to drill the cabinet or plinth).

Great care should be taken. In each of the DL 12 Series Two boxes you will find one speaker cabinet and one plinth. Taped to the underside of the plinth will be four short dowels for attaching the speaker cabinet to the plinth. Having removed all the plastic bags, lay the DL 12 Series Two speaker cabinet on its back with the grille uppermost, taking care not to lift or handle the loudspeaker by the grille. Lay it on a carpeted floor to prevent marking it and place the plinth next to it, recessed side down. You will see four pre-drilled holes on the top; locate each dowel and tap in gently with a hammer or mallet to the end stop. Tip the speaker on its end by lifting up the end closest to the Celestion badge: it should now be standing upside down (the badge on the Grille will now be near the top of the loudspeaker). You will see four pre-drilled holes on the bottom of the cabinet facing you. Take the plinth and address it to the cabinet, making sure all four dowels locate in the holes (if they do not, rotate until they do). Only when the plinth is located, very gently tap in rotation approximately where each dowel is located until the top of the plinth meets the bottom of the cabinet.

Once this is done and you are happy that it is firmly joined, lay the speaker on its back again and tipping it on to the plinth into the upright position. The Celestion badge will be near the bottom of the grille. Move the speaker to the approximate room position and repeat for the other speaker, taking time and care.

Room Positioning for the DL4 and DL6 Series Two

These loudspeakers have been designed to operate on rigid stands close to the rear walls. Bass reinforcement resulting from this placement has been taken into account in the design. Celestion recommend using high rigid column stands loaded with sand or lead shot.

Position the speaker/stand combination close to the rear wall but not closer than 2" (50mm) to it. If you are going to be using them on bookshelves, then make sure the front of the speaker is level with the front of the shelf. The position from the side walls should be not less than 24" (61cm), set obliquely at about 30 degrees. Ideally the loudspeaker should be placed approximately 6 feet (183cm) to 9 feet (274cm) apart.

Mounting the speaker on wall brackets is acceptable but NEVER screw to or through the speaker cabinet when fixing in this way.

Room Positioning for DL8 Series Two

The DL8, being a larger speaker, is balanced to work on a rigid column stand about 18" (46cm) high and at least 18" (46cm) away from the rear wall. The stand should also be loaded with either sand or lead shot. The position from the side walls should be not less than 24" (61cm), set obliquely at about 30 degrees. Ideally the loudspeaker should be placed approximately 6 feet (183cm) to 9 feet (274cm) apart.

Celestion Stands

To ensure maximum performance from your DL loudspeaker system, a stand has been developed. Supplied in a self assembly flat pack, a rigid aluminium extruded centre column is secured to substantial steel top and bottom platforms with high tensile bolts. Adjustable spiked feet are supplied and a recessed rear centre channel carefully conceals the loudspeaker cable - a clever design feature. High density polythene inserts are supplied for sand or lead shot damping. There is a choice of either an 18" (46cm) (LS18) or 24" (61cm) (LS24) stand height to ensure optimum listening.

For the ultimate performance when using stands, a number of aspects must be borne in mind. The stand should be placed on the floor using the adjustable spiked feet, which should be set to give firm level foundation. The spikes are intended to penetrate normal
carpets without damage, by pushing the weave and pile to one side, thus not leaving a lasting hole in your carpets. For those of a nervous disposition or owners of polished wooden floors, a small coin should be used under each of the spikes.

Mounting the speaker on a stand can be achieved by using a small piece of flexible mastic (‘Blu Tac’) about the size of your little finger nail or smaller; divide this into four equal pieces and place one near each corner on the top of each of the speaker stands. Press down gently when you are finally happy with the sound.

Room Positioning for DL10 Series Two

The DL10 has been designed for operation on a low stand or a floor mounted system using the rails supplied. Because of the cabinet size, preference might be given to the floor mounted system. Positioning of your loudspeakers can have dramatic effects on both tonal balance and the presentation of stereophonic images; with this in mind, place the speakers between 8 feet (244 cm) and 10 feet (305 cm) apart, keeping them slightly away from back walls. This will produce better stereophonic effects and with only a small decrease of perceived low frequencies. Experiment with the distance of your loudspeakers from the back wall, keeping the distance equal for both speakers but choose dissimilar distances for the side walls if possible. Be prepared to spend time optimising the system for your particular listening environment. After this is achieved take the rails provided and fix 5/8” (15 mm) behind the front chamfer of the speakers. This will now be correctly aligned for listening distances from approximately 98” (2.5 m) to 197” (5 m) from the loudspeakers. For the greater distances move the rails forward and for shorter distances move backwards.

If you want to use a stand system, this should be approximately 9” (228 mm) high therefore effecting the right listening axis of the loudspeakers.

Room Positioning for DL12 Series Two

The DL12 has been developed to provide a powerful three-way system, whilst retaining all the superior qualities of the award winning DL Series. This speaker has been designed as a floor standing system, using a plinth to lift the cabinet off the floor, giving those few extra inches essential for good sound dispersion. Position of your loudspeakers can have a dramatic effect on both tonal balance and the presentation of stereophonic images. With this in mind, we would recommend positioning the speakers about 18 inches (46 cm) to 30 inches (76 cm) away from the back wall, although the further away from the rear wall the better the depth of field image. Ideally the loudspeakers should be placed approximately 6 feet (183 cm) to 9 feet (274 cm) apart but make sure the speakers are not closer than 2 feet (60 cm) from the side walls. The speakers can be equal or unequal distances from the side walls, but they must be the same distance from the rear wall. It is normally recommended to turn the speakers inwards so try rotating them by up to 30 degrees which may improve the stereo image. This should be done to both speakers equally.

Generally

The above set-up should make a reasonable starting point for you to begin listening. When you are experimenting with the speaker position, remember that you must keep the same distance from the back wall for both loudspeakers. The differences in sound will be perceived mainly in the bass performance and stereo imagery. The sound will always be affected by furniture in the room itself. Reflections from the rear and side wall can improve or ruin the stereo effect if not used constructively. Move the loudspeakers by small amounts until you can correlate what you have done with what you hear. Do not stop until you are satisfied with the result. Such efforts on your part will not be in vain as the performance of these speakers, once positioned correctly, is first rate.

There are a few rules that can be laid down when you are listening to the loudspeakers. The tweeter (high frequency unit) should be situated at or near eye level when seated. You will always perceive a more accurate sound picture if you listen from a position half way between the loudspeakers and 8 feet (244 cm) to 10 feet (305 cm) away from them.

Try to avoid having items of furniture or ornaments in or near the sound path to the listener. Such items can cause reflection or absorption and disturb the coherence of the sound picture.

Celestion will gladly advise on speaker placement. A postcard or letter giving some details of your room should be sent to the address at the end of this manual.

Connections

The DL Series Two range of speakers are fitted with heavy-duty gold-plated binding posts which will accept cables of most normal thicknesses. 4 mm “banana” plugs may also be inserted and nipped with the holding screw.

If you use a bare wire wrap connection make absolutely certain there are no stray strands of wire touching between the (+) and (-) terminals. Short circuits of this nature can cause extensive damage to amplifiers.

Make sure you connect your speakers to the amplifier observing the polarity signs. Connect plus (+ red) of the amplifier to the (+) terminal of the speaker. Likewise the minus (- black) of the amplifier to the (-) terminal of the loudspeaker.

The cable sleeve should be marked on the core either with a (+) or a continuous line or rib. Use this as the positive plug and connect to the (+) red terminal at both ends.

You should keep the cable run from the amplifier to the speaker as short as possible and follow the principle that the thicker cable you use, the better. Avoid using cables of a gauge less than 6 amps (32 strands of 0.2 mm wire), which has a cross section of 1.0 mm2. Try to keep the cable runs to less than 5 m and you should not go above 10 m as performance is likely to be degraded.

You should always use cables of equal length to both loudspeakers. If one run is shorter than the other the excess cable should be folded concertina fashion, into a bundle and tied for neatness. NEVER coil the excess as this will introduce inductance. If you use a separate preamplifier and power amplifier it is advantageous to place the amplifier close to the speakers and use as short a connecting lead as possible, with a long lead from the preamp to the power amp. As this depends on the characteristics of the amplifier however, you should consult your dealer about this type of installation.

There are many exotic cables available. The use of these is to the listener’s choice. Their use will not harm your loudspeakers, but please, do bear in mind that certain cables have been known to cause problems to amplifiers. If in doubt, seek your dealer’s advice.
Much has been written in recent years on the importance of good connections. To ensure minimal signal degradation make sure ALL connections in your hi-fi system are clean, tight and of good quality. Good hi-fi housekeeping should involve the periodic remaking of connections as oxidation can occur even in the cleanest of households.

**Power Handling (see Specifications)**

Because of the new design and construction techniques used, your speakers have considerable dynamic capability and are ideally suited to the stringent performance demands of digital systems.

**A Note of Caution**

Celestion's power handling figures are based on undistorted speech and music signals. If audible distortion can be heard then loudspeaker damage can occur even on small amplifiers.

If you wish to use continuous wave signals please contact the Celestion Technical Department for advice.

Provided you do not overdrive your amplifier, you should not damage your loudspeakers. If you hear distortion when you increase the volume control towards maximum, this is normally a sign of overdriving the amplifier and you should reduce the output level slightly.

Use the frequency response controls on your amplifier to correct the slight imbalance in programme or room acoustics, but excessive use of bass or treble boost is not recommended as this will limit the overall loudness capability of the system because the amplifier will be overdriven much more easily.

**What you will Hear**

You may find this paragraph heading strange but, because your loudspeakers have been designed in a radically new way, to solve a number of fundamental problems, then do not be surprised when you hear an exceptional performance which can, based on listeners’ verdicts to date, be variously described as ‘startling’, ‘disconcerting’ or ‘amazing’.

A system which has been designed with a complete understanding of the vibration of all the drive units, produces a sound which is devastating in its accuracy and transparency. So much so, that you can clearly hear all the ambiances, microphone techniques, equalisations and colourations in the recorded material to such an extent that the difference between good recordings and poor recordings will become even more noticeable, but don’t worry, this means that good recordings will sound better and poor recordings will be shown up in their true light.

What you are actually hearing is more of the recording and less of the loudspeaker.

**Suggested Operating Procedures**

This section is intended to ensure that your loudspeaker system is protected from unintentional damage.

**Amplifier - Ensure that you:**

DO NOT use excessive volume which causes distorted or unpleasantly bad sound.
DO NOT lower, raise or clean stylus unless volume control is set to zero.
DO ensure that all connections are tight and are cleaned periodically - corroded connections will seriously impair sound reproductions.
DO NOT try to impress the neighbours with high volume - damage can easily result!

**Loudspeakers - Ensure that you:**

DO NOT place your loudspeakers near to a television - damage can occur to your television receiver.
DO NOT use your loudspeakers for reproducing either live amplified music or computer signals or to attempt to use as PA systems.
DO NOT allow acoustic feedback to occur.
DO remember that the human ear adjusts to sound levels and at parties you may be tempted to continually raise the volume to dangerous peaks!

**Service**

In the event of system malfunction, do remember that the loudspeaker only reproduces the signal fed into it. Used properly, loudspeakers will rarely fail and if both loudspeakers reproduce the same fault or distortion then it is likely that the problem lies elsewhere in the system. In the unlikely event of loudspeaker failure, please contact your dealer in the first instance or, if you prefer, contact our Service Manager.

**Limited Warranty**

Celestion has its own subsidiary companies in France, Germany and the United States of America (address on back page).

For other countries, contact your dealer who will advise the distributor if necessary. It is advisable to return the warranty card to the respective company to enable maximum continuity and service.

This Celestion loudspeaker is warranted against faulty material and workmanship subject to the original purchaser following restrictions:-

1. That the equipment has not been dismantled, modified or tampered with by any person other than an authorised representative.

2. That the equipment has not been abused or operated in conjunction with unsuitable or faulty parts.

3. That the equipment has not suffered mechanical damage or derangement in transit.

Should service be required, notify your dealer or local agent and have him arrange onward shipment to your local service department, if he confirms the need for attention. In case of difficulty contact our Service Department directly. Do not despatch goods without the prior agreement of the appointed Celestion Service Department. Insurance is recommended as goods are returned at the owners risk. Celestion cannot be held liable for loss or damage in transit. Packing, insurance and freight on the return journey will be paid by the Celestion Service Department if warranty work proves to be necessary.
Please complete and register the warranty card within 14 days of purchasing. Failure to register in no way limits or invalidates the warranty, but in the event of service being required, delay may result since the Service Department cannot begin work until the original sale has been verified. The warranty is in addition to and in no way detracts from your statutory rights as a consumer.

Designed and developed by Celestion International Ltd.

All specifications correct as outlined at time of going to press, but are subject to variance or change during production.

Introduction

Depuis 1924, Celestion est associé à l'innovation technique liée à l'excellence dans la conception et la fabrication.

Située à Ipswich, Suffolk, un comité réputé pour ses agréables paysages vallonnés et où vécut le grand peintre paysagiste d'Angleterre, John Constable, la société Celestion reste fièrement fidèle à ses traditions.

L'artisanat traditionnel est soigneusement maintenu, mais il va maintenant de paire avec la précision des nouvelles technologies. Un système exclusif de mesure par interférométrie laser permet à nos ingénieurs de recherche de développer des transducteurs dont le comportement peut être contrôlé avec précision. Il en résulte des enceintes acoustiques soigneusement intégrées qui assurent des performances exceptionnelles pendant toute une vie pour le plaisir de l'audiophile.

Veuillez prendre le temps de lire les notes qui suivent avant de passer à l'écoute.

Démontage et entretien

Vos enceintes ont été conçues, réalisées et finies selon des normes de qualité très rigoureuses. Les surfaces en vinyle durables et attrayantes peuvent être lustrées ou nettoyées avec une éponge humectée d'eau tiède savonneuse. Si vous utilisez un encaustique en aérosol, pulvérisez-le sur un chiffon et ne dirigez le jet vers la grille et les haut-parleurs qu'elle protège.

Après déballage, nous vous conseillons de conserver l'emballage, pour le cas où vous devriez transporter vos enceintes ultérieurement.

Si vous devez brosser le tissu de la grille des enceintes, nous vous conseillons de retirer la grille pour ce faire. Saisissez les bords extérieurs de la grille et exercez une ferme pression contre l'enceinte pour la retirer facilement.

Evitez de toucher le côté du haut-parleur des graves, car c'est un élément délicat qu'il est facile d'endommager. Pour enlever l'accumulation de poussière, soufflez dessus doucement de temps à autre. Il ne faut pas non plus toucher le dôme des aigus. Contenez-vous de souffler pour enlever la poussière, et n'essayez en aucun cas de toucher le dôme derrière sa grille de protection, car cela endommagerait le dôme et en dégraderait les performances.

DL12 Série Deux

A noter que nous préconisons vivement l'utilisation du socle, mais que ceci n'est pas essentiel. Si vous décidez de vous en servir, veuillez lire les instructions suivantes.

Démontage et assemblage (il N'EST PAS nécessaire de percer l'enceinte ou le socle)


Apres avoir enlevé tous les sacs de plastique, posez l'enceinte de haut-parleur DL12 Série Deux sur sa partie arrière, la grille étant sur le dessus, en prenant soin de ne pas soulever ni de manipuler le haut-parleur par la grille. Posez l'enceinte sur une moquette pour éviter toutes éraflures et placez le socle à côté de celle-ci, le côté en retrait étant tourné vers le bas. Vous verrez quatre trous pré-percés sur le dessus; positionnez chaque cheville et enfoncez-les en tapant doucement à l'aide d'un marteau ou d'un mandrin jusqu'à la butée. Faites basculer l'enceinte sur son extrémité en soulevant le côté le plus proche du badge Celestion; l'enceinte est maintenant retournée verticalement (le badge de la grille se trouvant vers le haut de l'enceinte). Quatre trous sont pré-percés sur la partie inférieure de l'enceinte qui vous fait face. Prennez le socle et présentez le devant l'enceinte, en vous assurant que les quatre chevilles sont positionnées dans les trous (si ce n'est pas le cas, faites tourner l'enceinte jusqu'à ce qu'elles soient en face des trous). Unes le socle sur place, reposez très légèrement sur les chevilles chacune à son tour pour les enfoncer en place, jusqu'à ce que le dessus du socle rencontre la partie inférieure de l'enceinte.

Quand vous avez terminé cette opération et que vous êtes satisfait que ces parties sont bien assujetties, posez à nouveau le haut-parleur sur sa partie arrière, puis faites le basculer pour le mettre en position verticale. Le badge Celestion se trouve maintenant près de la partie inférieure de la grille. Placez le haut-parleur dans la pièce à la position voulue, puis toujours avec patience et précaution, procédez de même pour le deuxième haut-parleur.

Positionnement des DL4 et DL6 Série Deux dans la pièce

Ces haut-parleurs sont conçus pour fonctionner sur des supports rigides à proximité du mur arrière. Il a été tenu compte dans la conception du modèle du renforcement des sons graves qui résulte de ce positionnement. Celestion vous recommande d'utiliser de hauts pieds à colonne rigides chargés de sable, ou de gravillons de plomb.

Positionnez l'ensemble haut-parleur/pied à proximité du mur arrière, mais à une distance toujours supérieure à 50 mm. Si vous les utilisez sur des étagères, assurez-vous que l'avant du haut-parleur est à cas de l'avant de l'étagère. Il doit être situé à au moins 61 cm des murs latéraux, et tourné de biais à environ 30 degrés. De façon idéale, placez les haut-parleurs à une distance comprise entre environ 183 cm et 274 cm l'un de l'autre.

Il est admissible de monter les haut-parleurs sur des appliques murales, mais il NE FAUT JAMAIS visser ou percer l'enceinte du haut-parleur, pour le fixer.
**SPECIFICATIONS**

**DL6 Series Two**

<table>
<thead>
<tr>
<th>Frequency Response:</th>
<th>60Hz-20kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity:</td>
<td>89 dB SPL 1 Watt/1 metre (free space conditions)</td>
</tr>
<tr>
<td>Power Handling:</td>
<td>100 Watts programme</td>
</tr>
<tr>
<td>Drive Units:</td>
<td>1 x Celestion titanium dome tweeter 25mm (1&quot;)</td>
</tr>
<tr>
<td></td>
<td>1 x Celestion bass unit 200mm (8&quot;)</td>
</tr>
<tr>
<td>Crossover:</td>
<td>3.5kHz</td>
</tr>
<tr>
<td>Impedance:</td>
<td>8 Ohms</td>
</tr>
<tr>
<td>Cabinet:</td>
<td>Sealed enclosure</td>
</tr>
<tr>
<td>Finish:</td>
<td>Walnut or Black</td>
</tr>
<tr>
<td>Height:</td>
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<td>Width:</td>
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<td>Depth:</td>
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<td>Weight (each):</td>
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**DL8 Series Two**

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<th>Frequency Response:</th>
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<tr>
<td>Sensitivity:</td>
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<tr>
<td>Power Handling:</td>
<td>150 Watts programme</td>
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<tr>
<td>Drive Units:</td>
<td>1 x Celestion titanium dome tweeter 25mm (1&quot;)</td>
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<td></td>
<td>1 x Celestion bass unit 200mm (8&quot;)</td>
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<tr>
<td>Crossover:</td>
<td>3.5kHz</td>
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<tr>
<td>Impedance:</td>
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<tr>
<td>Cabinet:</td>
<td>Sealed enclosure with full height figure-of-eight brace</td>
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<tr>
<td>Finish:</td>
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<tr>
<td>Height:</td>
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<td>Width:</td>
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<tr>
<td>Depth:</td>
<td>258mm (10 1/4&quot;)</td>
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<tr>
<td>Weight (each):</td>
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</table>
DL10 Series Two

**Frequency Response:** 48Hz-20kHz

**Sensitivity:** 89 dB SPL 1 Watt/1 metre (free space conditions)

**Power Handling** 150 Watts programme

**Drive Units**
- 1 x Celestion aluminium dome tweeter 32mm (1 1/4")
- 1 x Celestion mid range 165mm (6 1/2")
- 1 x Celestion bass 250mm (10")

**Crossover:** 530 Hz-3.8kHz

**Impedance:** 8 Ohms

**Cabinet:** Bass reflex design cabinet with separate midrange enclosure and full height figure-of-eight brace

**Finish:** Walnut or Black

**Height:** 740mm (29")

**Width:** 350mm (13 3/4")

**Depth:** 305mm (12")

**Weight (each):** 19.3 kg (42 1/2 lbs)

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DL12 Series Two

**Frequency Response:** 58Hz-20kHz (-3dB)
- 48Hz at (-6dB)

**Sensitivity:** 90 dB SPL 1 Watt/1 metre (free space conditions)

**Power Handling:** 150 Watts programme

**Amplifier Requirements:** 10-150 Watts (continuous sinewave output)

**Drive Units**
- 1 x Celestion two piece titanium dome tweeter 25mm (1")
- 2 x Celestion mineral filled polyolefin bass drivers 200mm (8")

**Crossover:** 8 element, low pass: 800 Hz 1st order; 3.5kHz 2nd order, high pass: 3.5kHz 3rd order

**Cabinet:** 18mm double sealed enclosure 38 litres internal volume

**Terminals:** Gold plated 4mm binding posts

**Finish:** Walnut or Black Ash Vinyl

**Height:** 820mm (32 1/4") (on plinth)

**Width:** 275mm (10 3/4")

**Depth:** 290mm (11 1/2")

**Weight (each):** 16.8 kg (37 1/4 lbs)
Made in England by:
Celestion International Ltd., Foxhall Road, Ipswich, Suffolk IP3 8JP  England.

All specifications correct as outlined at time of going to press, but are subject to variance or change during production.

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