

# KUSTOM<sup>®</sup>

## OWNER'S MANUAL

### '66 DART<sup>™</sup>



**Congratulations** on the purchase of your new Kustom amp! Your 66Dart<sup>™</sup> model successfully draws on decades of amplifier design and manufacturing experience at Kustom. This amp was planned from the ground up to offer top-notch tone and dependable performance. Inside this manual, you'll find useful information about the amp's features and some suggested settings to illustrate its tonal capabilities. We wish you many years of enjoyment with your Kustom amplifier.

# ENGLISH

## Danger

Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably to noise induced hearing loss but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

DURATION PER DAY (HOURS)	8	6	4	3	2	1
SOUND LEVEL (dB)	90	93	95	97	100	103

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Ear plugs or protectors in the ear canal or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of inducing high sound pressure levels, such as this amplification system, be protected by hearing protectors while this unit is in operation.



**AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIE.**



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.




THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.



APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

## IMPORTANT SAFETY INSTRUCTIONS

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understand all warnings listed on the operating instructions.
4. Follow all operating instructions to operate this product.
5. This product should not be used near water, i.e. Bathtub, sink, swimming pool, wet basement, etc.
6. Only use dry cloth to clean this product.
7. Do not block any ventilation openings, It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
8. Do not install this product near any heat sources ;such as, radiators, heat registers, stove or other apparatus (including heat producing amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord being walked on or pinched, particularly at Plugs, convenience receptacles and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
11. Only use attachments specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving cart/ apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as, power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
17. The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

# FRENCH

## Danger

L'exposition a des niveaux eleves de bruit peut provoquer une perte permanente de l'audition, Chaque organisme humain reagit differemment quant a la perte de l'audition, mais quasiment tout le monde subit une diminution de l'acuite auditive lors d'une exposition suffisamment longue au bruit intense. Les autorites competentes en reglementation de bruit ont defini les expositions tolerees aux niveaux de bruits:

DURE EN HEURES PAR JOUR	8	6	4	3	2	1
INIVEAU SONORE CONTINU EN dB	90	93	95	97	100	103

Selon les autorites, toute exposition dans les limites citees ci-dessus, peuvent provoquer certaines pertes d'audition. Des bouchons ou protections dans l'appareil auditif ou sur l'oreille doivent etre portes lors de l'utilisation de ce systeme d'amplification afin de prevenir le risque de perte permanente de l'audition, Dans le cas d'expositions superieures aux limites precitees il est recommande, afin de se premunir contre les expositions aux pressions acoustiques l'evenement potentiellement dangeureux, aux personnes exposees aux equipements capables de delivrer de telles puissances, tels ce systeme d'amplification en fonctionnement, de proteger l'appareil auditif.



CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE DE VOLTAGE DANGEREUX NON-ISOLE A L'INTERIEUR DE CE PRODUIT QUI PEUT ETRE DE PUISSANCE SUFFISAMMENT IMPORTANTE POUR PROVOQUER UN CHOC ELECTRIQUE AUX PERSONNES.



CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE D'INSTRUCTIONS D'UTILISATION ET DE MAINTENANCE DANS LES DOCUMENTS FOURNIS AVEC CE PRODUIT.



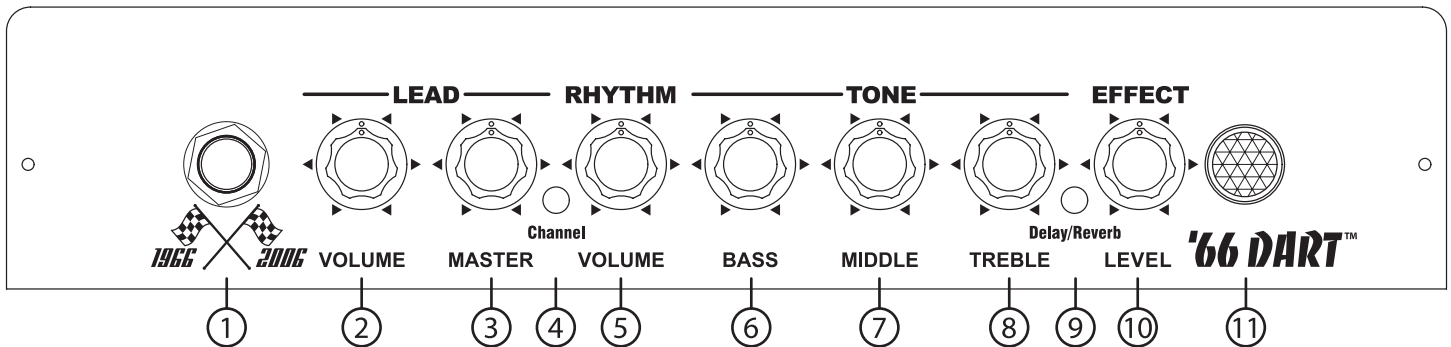
AFIN DE REDUIRE LES RISQUE D'INCENDIE ET DE DECHARGE ELECTRIQUE, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE.

## IMPORTANTES INSTRUCTIONS DE SECURITE

1. Lire avec attention toutes les recommandations et precautions d'emploi avant d'utiliser ce produit.
2. Toutes les recommandations et precautions d'emploi doivent etre conservees afin de pouvoir s'y reporter si necessaire.
3. Lire et comprendre tous les avertissements enumerés dans les precautions d'emploi.
4. Suivre toutes les precautions d'emploi pour utiliser ce produit.
5. Ce produit ne doit pas etre utilise pres d'eau, comme par exemple baignoires, eviers, piscine, sous-sol humides ... Etc.
6. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
7. Ne bloquer aucune ouverture de ventilation. Ne pas placer le produit tout contre un mur ou dans une enceinte ferree, cela generait le flux d'air necessaire au refroidissement.
8. Ne pas placer le produit pres de toute source de chaleur telle que radiateurs, arrivees d'air chaud, fourneaux ou autres appareils generant de la chaleur (incluant les amplificateurs producteurs de chaleur) .
9. Ne pas negliger la securite que procure un branchement polarise ou avec raccordement a la terre, Un branchement polarise comprend deux fiches dont l'une est plus large que l'autre. Un branchement a la terre comprend deux fiches plus une troisieme reliee a la terre. Si la fiche secteur fournie ne s'insert pas dans votre prise de courant. consulter un 'electricien afin de remplacer votre prise obsolete.
10. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche de terre du cordon d'alimentation.
11. Utiliser uniquement les accessoires spécifiés par le constructeur.
12. Utiliser uniquement avec le chariot de transport, le support, le trépied, la console ou la table spécifiés par le constructeur ou vendus avec l'appareil. Lors de l'utilisation d'un chariot, bouger avec précaution l'ensemble chariot/appareil afin d'éviter les dommages d'un renversement.
13. Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
14. Des précautions doivent être prises afin qu'aucun objet ne tombe et qu'aucun liquide ne se répande à l'intérieur de l'appareil par les orifices de ventilation ou n'importe quelle autre ouverture.
15. Pour toutes interventions techniques s'adresser à un technicien qualifié. L'intervention technique est nécessaire lorsque l'appareil a été endommagé de n'importe quelle façon, comme par exemple si le cordon secteur ou sa fiche sont détériorés, si du liquide a coulé ou si des objets sont tombés à l'intérieur de l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
16. ATTENTION: Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité.
17. La prise Mains, au coupler, est utilisé pour la source d'alimentation électrique. Il est conseillé de garder cette prise facilement accessible.



# 66 DART™ Front Panel



**1.) Guitar Input Jack** - This is a 1/4" 2-conductor input jack for plugging in your instrument. It is intended for guitars but will accept other instruments as well.

**2.) VOLUME** - Adjust this control clockwise to increase the amount of distortion. Use in the lower ranges (counter clockwise) to produce less distorted tones. As you increase the volume (clockwise), the amount of distortion can range from "Classic Rock" to heavy, modern rock.

**3.) MASTER** - This is a volume control for the Lead channel only.

**4.) CHANNEL** - This switch selects between the Lead and Rhythm channels.

**5.) VOLUME (Rhythm)** - This is a volume control for the Rhythm channel only.

**6.) BASS** - This is the bass control for both channels. This passive control adjusts frequencies at 800Hz and below. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low end will be rolled off -12db.

**7.) MIDDLE** - This passive midrange control centers both channels at 800Hz. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low end will be rolled off -12db.

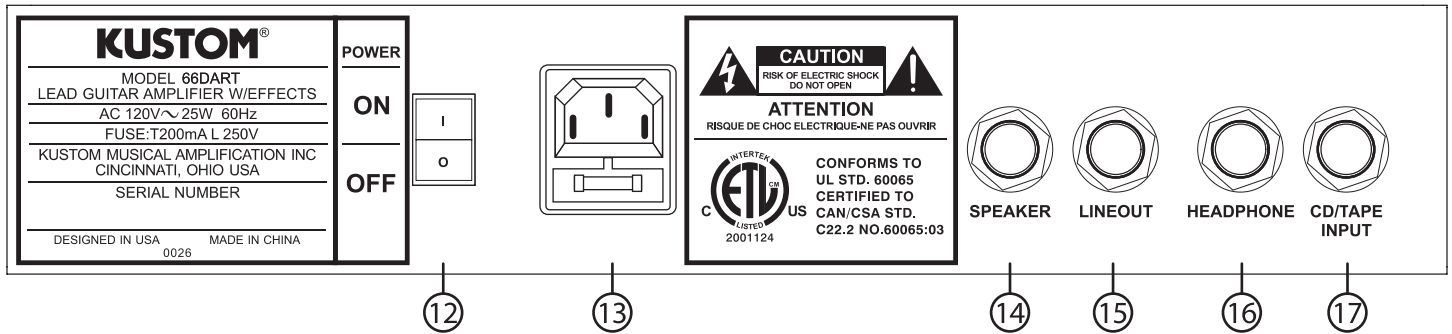
**8.) TREBLE** - This is the high frequency control for both channels. This passive control adjusts frequencies at 3K Hz and above. Turning it fully clockwise, the signal is unaltered. Turning it counterclockwise, the low end will be rolled off -12db.

**9.) Delay/Reverb**- This switch will toggle the effects selection between Delay and Reverb.

**10.) LEVEL** - This control increases the effect signal and mixes it with the guitar signal. Turn the control clockwise to add the desired level of effects .

**11.) Power Indicator** - When lit, the amplifier is turned on and ready for use.

# 66 DART™ Back Panel



**12.) Power Switch** - This switch turns on and off the AC power to the amp.

**13.) AC Power Cord Receptacle/Fuse** - AC power cord can be removed for easy storage and replacement if damaged. Insert the AC cord (provided) firmly into the AC receptacle. NOTE: Replace the AC power cord if protective jacket is damaged or ground pin is damaged or removed.

The fuse is located in a fuse tray just below the receptacle. Replace only with same size and type. For your convenience, a spare fuse is located inside the fuse tray toward the front. To replace fuse, remove AC power cord. Remove fuse tray by pulling the tab located above the fuse symbol away from the receptacle.

**14.) SPEAKER** - This jack is used to deliver the amplified signal to an external speakers. Total minimum load is 8 ohms. Do not use a load lower than 8 ohms. Damage to the amplifier may result. The amplifier's internal speaker is disconnected when this jack is used.

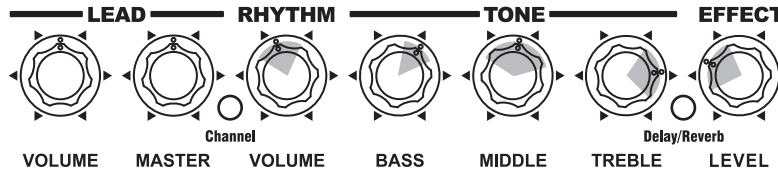
**15.) LINEOUT** - This is a 2-conductor 1/4" line output jack. This will allow an external amplifier or mixing board to be supplied with the signal from this amp.

**16.) HEADPHONE** - This is a 3-conductor stereo jack. The amplifier's internal speaker is disconnected when this jack is used.

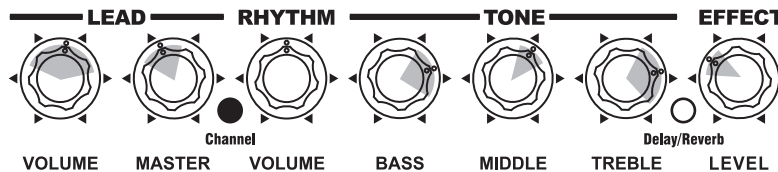
**17.) CD/TAPE INPUT** - This is a 3-conductor 1/4" jack that allows playback from a Compact Disc or Tape player.

## Suggested Settings

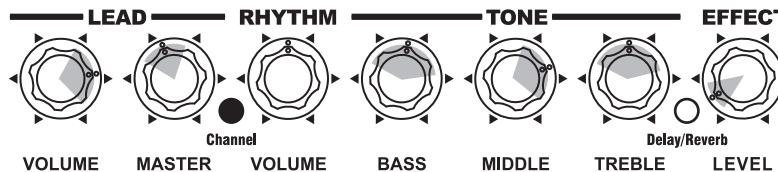
(These settings are general starting points. They are designed to get you close to the sound you are looking for. If the control is not shown, then it doesn't apply to this particular sound.)



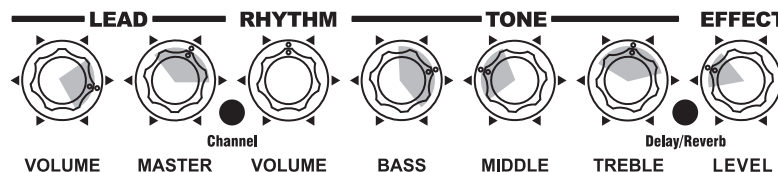
**Clean Rhythm/Country Guitar** - these settings are for basic clean sounds including rhythm guitar, country lead guitar, and funky/chunky rhythm sounds. Usually, country guitar is a brighter, more trebly sound. The bottom end depends on what type of guitar you are using. Reverb depends on taste. Rhythm guitar is commonly a clean full sound, using a little less treble than the country sound and a bit more midrange. Reverb, again depends on taste.



**Medium-Gain Rock and Blues** - this setting is particularly useful in blues or classic rock songs. It is good for leads as well as rhythm parts. It is also useful for power chords. You need to switch to the lead channel to make these settings work. Blues, depending on the guitar you use, usually adds treble but with more midrange and a "fat" bottom end. Adjust the gain control to the amount of distortion you desire. Blues often has a reverb trail on the notes. Adjust to taste.



**Alternative/Harder Edged Rock** - this setting will deliver more of a cutting tone. Whether used for rhythm or lead sounds, it will "cut" through the drums and get you heard. If you need more "grunge", increase the gain control for more distortion. This style of music requires a slightly thinner, harder edged tone full of midrange. Less reverb is required as it tends to muddy up faster songs. Adjust to taste.



**Heavy Metal/Maximum Crunch** - this setting is a good starting point for the "notched-out middle" sounds associated with metal and heavy alternative sounds. Adjust the Treble, Lows, and Delay to taste. Usually, for a rhythm tone, you want to have more lower end and less for leads. Distortion is an integral part of this style of music, so crank up the Gain.

Model	Power	Equalizer	Channels	Speaker	Effects	Amplifier Type	Dimensions (H x W x D)	Weight
66 DART	10 W	3 Band	2	4 Ohm	Delay/Reverb	Bi-Polar Transistor	14.4 x 14.4 x 7.25 in 36.5 x 36.5 x 18.5 cm	14.6 lb 6.6 kg

## EC Declaration of Conformity

We: Kustom Musical Amplification Inc.  
 PO. Box 568  
 Hebron, Ky 41048-0568  
 Tel: 1-513-451-5000 Fax: 1-513-347-2192

Declare that the product

Product name: Kustom

Product model number: 66 Dart

to which this declaration relates is in conformity with the following standards;

- EN55013 (A12) : 1995 Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment.
- EN55020: 1995 Electromagnetic immunity of broadcast receivers and associated equipment.
- EN61000-3-2: 1995 Limits for harmonic current emissions (equipment input current  $\leq$  16A per phase).
- EN61000-3-3: 1995 Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated currents  $\leq$  16A.
- EN55103-1: 1995 Electromagnetic Compatibility - Product family standard for Audio, Video Audio-visual and entertainment Lighting Control Apparatus.
- EN60065: 1994 Safety requirements for main operated electronic and related apparatus for household and similar general use.

Following the provisions of EU Council Directive(s): 72/73 EEC and 89/336/EEC.

We the undersigned, hereby declare that the equipment specified above conforms to the aforementioned directive(s).

Name of authorized person: James Brown, Chief Engineer

Signature: 

Date: 14 JUNE 2006

Kustom Amplification Inc.  
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