



Electracooustic Percussion Products

PRODIGY



OWNERS MANUAL

HART DYNAMICS PRODIGY DRUMSET

IMPORTANT!

**THANK YOU
FOR PURCHASING
HART DYNAMICS
ELECTRACOUSTIC
PERCUSSION PRODUCTS**

**IF YOU HAVE ANY
TECHNICAL QUESTIONS
OR BELIEVE YOUR ARE
MISSING COMPONENTS,
PLEASE CHECK YOUR
QUALITY CONTROL CHECK LIST
(NEXT PAGE)
AND REVIEW YOUR
OWNERS DOCUMENTATION.**

**IF YOU NEED ADDITIONAL HELP,
PLEASE CALL HART DYNAMICS
DIRECT AT (850) 654-1466
FOR PROMPT, EXPERT
ASSISTANCE.**

THANK YOU

QUALITY CONTROL CHECKLIST

			PRODIGY DRUMSET
	QTY	HDI PART NUMBER	DESCRIPTION
X	10	HW-UTCL	R ANGLE TUBE CLAMP
X	8	HW-URCL	RACK TOM/CYMBAL CLAMP
X	2	HW-CYBS	CYMBAL ARM STRAIGHT
X	5	PR-DRUM MT ARM	PRODIGY TOM ARM
X	1	PR-URT12"	UTILITE 12" RACK TUBE
X	2	PR-URT16"	UTILITE 16" RACK TUBE
X	1	PR-URT24"	UTILITE 24" RACK TUBE
X	4	PR-URT26"	UTILITE 26" RACK TUBE
X	2	PR-URT30"	UTILITE 30" RACK TUBE
X	4	PR-RACK FOOT	T-LEG FOOT-PLASTIC
X	9	HW-UCBLS	STUDIO CABLES STEREO
X	1	HW-CLMP-MT-C	ALESIS RACK EARS-SET
X	1	DSM-PR	OWNERS PACK (Quality Control Checklist, Rack Set Up, Module Configurations, Trigger Settings)
X	1	HW-TUNING-KEY	TUNING KEY
X	5	PR-TOM/BD-PAD	PRODIGY DRUM PADS
X	1	PR-HH-PAD	PRODIGY HH PAD
X	1	PR-EC12	12 ECYMBAL S/no spring
X	1	PR-EC14	14 ECYMBAL S/ no spring

This order has been inspected and packed by:

Neil Echel

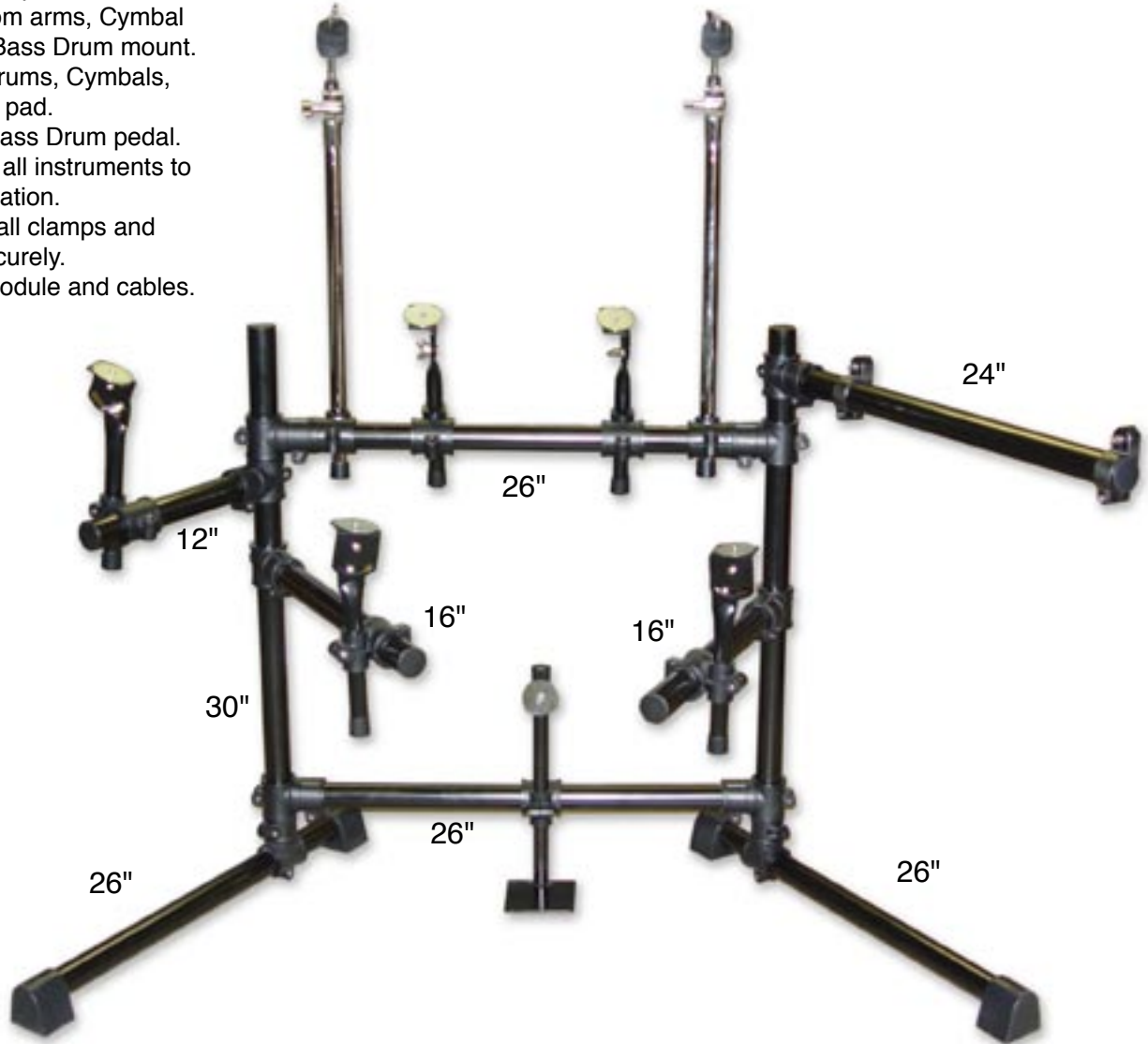
QUICK SET UP (NEXT PAGE)

PRODIGY RACK SET-UP

PRODIGY

Rack Assembly

1. Slide clamps on to tubes.
2. Insert Tom arms, Cymbal arms and Bass Drum mount.
3. Install Drums, Cymbals, and Hi-Hat pad.
4. Attach Bass Drum pedal.
5. Position all instruments to desired location.
6. Tighten all clamps and mounts securely.
7. Install module and cables.



HW-UTCL
Tube Clamp



HW-URCL
Tom/Cymbal/BD
Clamp



HW-CLMP-MT-C
Alesis DM5 Rack Ear Mounts

PRODIGY SET-UP

ALESIS D4/DM5

INPUT

- 1 HI-HAT PAD
- 2 BASS DRUM PAD
- 3 SNARE PAD
- 4 TOM PAD 1
- 5 TOM PAD 2
- 6 TOM PAD 3
- 7 14" RIDE CYMBAL PAD
- 8 12" CRASH CYMBAL PAD

FOOT SWITCH HH PEDAL



Prodigy drum set does not require trigger adjustment with the Alesis DM5.
You may alter trigger settings to suit your playing style.

ROLAND TD-3

INPUT

- 1 HI-HAT PAD
- 2 BASS DRUM PAD
- 3 SNARE PAD
- 4 TOM PAD 1
- 5 TOM PAD 2
- 6 TOM PAD 3
- 7 12" CRASH CYMBAL PAD
- 8 14" RIDE CYMBAL PAD

HH CONTROL HH PEDAL



NOTE: Only highlighted (grey) settings need to be altered from factory settings.

TRIGGER	PAD TYPE	PAD SENS	THOLD	V CURVE	SCAN	RET CNCL	X-TALK	MASK	R SENS	R GAIN
SNARE	Pd8	7	3	Lnr	0.8	2	80	12	N/A	1.1
KICK	Kd8	9	4	Lnr	0.8	6	Off	8	N/A	N/A
TOM 1	Pd8	7	3	Lnr	0.8	2	80	12	N/A	1.1
TOM 2	Pd8	7	3	Lnr	0.8	2	80	12	N/A	1.1
TOM 3	Pd8	7	3	Lnr	0.8	2	80	12	N/A	1.1
RIDE	CY8	9	3	Lnr	2	5	80	8	N/A	1.1
CRASH	CY8	9	3	Lnr	2	5	80	8	N/A	1.1
HI-HAT	Pd8	7	3	Lnr	0.8	2	80	8	N/A	1.1

Dear Friends and Fellow Percussionists,

Thank you for purchasing your Hart Dynamics Electracoustic® Percussion Product. You have purchased one of the finest Instruments available, and are assured of years of trouble free operation.

We at Hart Dynamics, are dedicated to providing the finest products and services available, and continue to design our products with quality, playability, ease of set-up, and compatibility being our foremost concerns. Our products have undergone years of testing and tour/studio use, so that you may concentrate on playing. We also subscribe to the philosophy that “drummers want to play drums” and have implemented this credo into our products so that you don’t have to alter your playing style.

The future is here, and as drummers, we now have the same technology available to us that guitar and keyboard players have had. This technology is continually improving and becoming more affordable, and embracing this exciting technology will surely provide new creative avenues and opportunities.

We value your patronage and are very much interested in any comments you might have. You may write or e-mail us so that we may use your input to continue to provide the best products and services available.

Enjoy!

A handwritten signature in black ink, appearing to read "Peter Hart". The signature is fluid and cursive, with the first name "Peter" written in a larger, more prominent script than the last name "Hart".

**Peter Hart
President/CEO
Hart Dynamics, Inc.**

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Introduction

Your Hart Dynamics Electracoustic® Drum System is the result of years of research and development and represents the most comprehensive electronic drum system available. Easy enough to use for the beginning drummer with features that allow the most advanced user flexibility never before available. To assure proper set up, take full advantage of your drum set's functions, and to enjoy long and trouble free use, please read the Set-up Guide and Module Reference Manual carefully.

How to Use this manual

This Set-up Guide is designed to help you configure your drumset to the “power on” stage. Please refer to your Module Reference Manual for playing and programming. Our Quick Set Up page will provide additional assistance. After basic operation is achieved, you will probably want to “fine tune” settings to your personal style and taste.

Conventions

TRS stands for Tip / Ring / Sleeve.

This is the same as a “stereo” jack, where one input, output or cable carry two signals at the same time.

▶▶ When something important appears in the manual, an icon (like the one on the left) will appear in the left margin. This symbol indicates that this information is vital when setting up/operating your drum set.

Drum Rack Set-up

Your PRODIGY Drumset comes with complete hardware and cables. We have provided the quick set-up sheet so you have pictures of the assembled rack and module mount recommendations for reference.

▶▶ **NOTE:** HW-UMMT/A (ALESIS) module mounts are shown in all rack set up pictures. Module mount for Roland/ Yamaha modules are not included.

During the following assembly, we recommend you tighten each clamp only enough to hold it in place. After complete assembly and positioning, it is then recommended you tighten each clamp securely.

▶▶ **NOTE:** The following pages contain information that includes basic global tips for connecting HDI Electracoustic[®] Percussion Products to all manufacturers sound modules. You should consult the manufacturer's owners manual of the sound/trigger module you are using for optimum playability. Our products are the finest products available in the world, and go through extensive testing to insure compatability, but you will only achieve optimum results by using optimum settings. For best results, adjust each instrument individually by unplugging all inputs except the one you are adjusting (Not necessary for users who are familiar with X-talk settings).

DISCLAIMER

▶▶ **NOTE:** All Company and Product names, numbers, models and/or Trademarks in this manual are assumed to be registered and are the property of their respective commercial entities. HDI makes no claims to endorse or recommend any of the above which might be mentioned.

Installing Drums and Cymbals

There are as many ways to configure your drum set as there are drummers. Our HARTWARE® or ULTILITE® rack and mounting system will allow you to position each drum and cymbal to suit your taste.

1. Start with the SNARE drum. Position your drum throne to the height at which you are most comfortable, then install the snare pad on to the snare mount.
2. Locate the bass drum pad and install.
3. Install bass drum pedal and clamp pedal to Bass drum. Adjust position.
4. Locate the hh pedal and adjust position on floor.
5. Install Hi-Hat pad and adjust position.
6. Install Ride and adjust position.
7. Install Toms and adjust position.
8. Install Crash and adjust position.

▶▶ Adjust the drum head tension. All drums are pre-tensioned from the factory, but you may adjust them to your taste and playing style. Snare drums usually have the tightest tension, high tom next , then down to loosest on floor tom(s) and Bass Drum. It is important to adjust head tensions BEFORE setting up module as different tensions will affect triggering characteristics slightly. Adjust using any standard drum key (supplied).

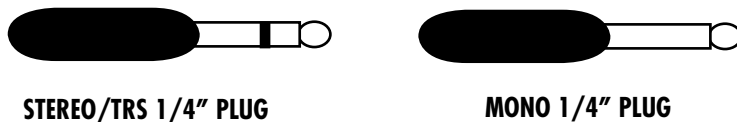
▶▶ **IMPORTANT!** Hart Dynamics KONTROL SCREEN® drum heads are extremely durable and will typically last much longer than their acoustic counterparts. **ALL PRODIGY DRUM HEADS ARE SPECIFIC 8" PRODIGY HEADS. YOU MAY ONLY USE 8" (KSM08-P) PRODIGY DRUM HEADS ON PRODIGY DRUMS. ALL BASS DRUM HEADS MUST BE TREATED AS YOU WOULD AN ACOUSTIC BASS DRUM HEAD.**

Felt beaters are recommended and you should not have to replace the bass drum head for a very long time, if ever. If you choose to use a plastic or wooden beater, you should take the same precautions that you would normally take on an acoustic bass drum. We recommend using a protective patch just as you would on an acoustic kick. Hart Dynamics does not guarantee drum heads.

Cable Installation

PRODIGY drumset is supplied with 10' "Stereo" TRS cables for use with ALESIS D4 and DM5 modules. These Modules do not require TRS cables.

PRODIGY sets are not compatible with dual trigger snare (rimshot), choke capability, and variable HH with Roland modules. The Snare pad, Prodigy Ecymbals, and Prodigy HH pedal will function properly and will play fine, but these advanced functions will not be accessible.



Start with input #1 and work your way around the set. You may use cable ties, velcro, or black electrical tape to secure cables to rack hardware (Figure 2b). You may also make a “snake” by securing cables together once you determine the optimum position for each component.

►► **IMPORTANT:**

It is VERY IMPORTANT that enough slack is provided for crash and splash cymbals which move up and down and that cable is not just hanging from the cymbal. This may cause jack failure, bend trigger housing, and cause intermittent triggering. When installing cable, bend cymbal to full extension and attach cable to stand. (Fig. 2a,2b,2c)

Sound Source Connection

Plug cables into sound source. Most modules come with pre-programmed drumset settings, so check the inputs for ease of set-up (tom-tom, snare-snare, etc...). You may also program any sound to any input. Please consult your Module Owners Manual to determine which inputs to use to correspond with the drums and cymbals on your PRODIGY drumset. Our Quick Set Up guide will help you with your cable installation.

Crash/Splash/China Cable Care



Fig. 2a
CORRECT
MOUNTING
NOTE:
CABLE RELIEF



Fig 2b
CYMBAL
FLEXES
WITHOUT
STRAIN ON
CABLE



Fig 2c
INCORRECT:
INCONSISTENT
TRIGGERING.
DAMAGED
CYMBAL/CABLE

Note: The Ecymbals above are Series X (ten) cymbals. These are shown to provide a better view. Cymbal Springs® are not provided with the Prodigy set, but the same cable relief set up should be observed.

Module Mounts

Attach ALESIS modules to rack tube using 2 AMMT fittings.



Using Roland/
Yamaha Module
requires 1 HW-
URCL rack clamp
and 1 P-MT-TD10
Roland/Yamaha
mount plate.

Ready To Play

You are now ready to “Power Up” your drum set. Locate the power supply (or power cord) and plug connector into module back panel (where applicable). Plug other end into AC outlet. Press Power button on front panel. Please refer to the Module Reference Manual for advanced trigger and programming features. **PRODIGY set requires no adjustment and is ready to play with ALESIS D4/DM5.** (Enhanced adjustments below)

Enhanced Adjustments

1. Start by setting the VELOCITY CURVE. This parameter adjusts how the drum responds over the entire the dynamic range. In general, the lower the better, so this should be set at linear or "1" on the D4 and DM5. This will allow you to hit the drums and cymbals very soft and very hard with the corresponding matched output. In general, the HIGHER the setting, the LEAST amount of dynamic range will be achieved.
2. Once you have set the V-CURVE it is time to adjust the SENSITIVITY. Adjust module sensitivity for each drum and cymbal individually so that the sound is loudest when you are hitting the instrument as hard as you will ever hit it.
3. The Prodigy sets ship with self adhesive rubber pads which are replaceable as a wear and tear item. These pads allow the cymbals to be played very quietly. Gain adjustment may be required for optimum sensitivity. You may also remove the rubber pads for enhanced "feel" and improved triggering with stock settings. It is VERY IMPORTANT that you rotate the trigger housing to the back side of the cymbal (opposite of where you play) if pads are removed. **Playing the cymbals directly over the trigger housing WITHOUT protective rubber will cause "hot spots", erratic triggering, and may void guarantee.** It is recommended that you purchase Cymbal Springs® (part # P-EC-SPGC) to prevent the cymbals from rotating and enhance "feel" if you choose to play the cymbals in this manner.

Advanced User Tips and Tricks

X-TALK/ REJECTION

Once Vcurve and sensitivity/gain settings are programmed, plug in all inputs. Cross-talk (also referred to as rejection) keeps the vibration created by hitting a specific trigger (drum/cymbal) from firing other triggers. Usually, the default (stock) settings are sufficient, but if false triggering should occur, you may adjust each trigger input accordingly. (consult module manufacturers owners manual).

DECAY/MASK/RETRIGGER

Decay adjusts the amount of time before the module will allow the specific input you are triggering to re-trigger. Again, default (stock) settings should work fine. This setting is mostly used on acoustic drums where there is residual resonance. For instance, if you are triggering an acoustic snare drum without any muffling, raising the decay setting will eliminate “machine gunning” or multiple triggers per hit. (B-d-d-d)

NOISE/THRESHOLD/GATE

This setting is used in extreme cases where cross-talk/ rejection are not enough. The higher the setting, the harder you have to hit the trigger before it passes the noise floor/ threshold and sound is heard. This feature is also very useful for setting up your dual trigger pad. By raising this setting on rim trigger only, this will eliminate rim from firing until it is actually hit. This setting is most critical when acoustic instruments are incorporated into the drumset at close proximity to triggered devices.

We would like you to enjoy your HDI products to the fullest extent, and set-up should be quick and easy. Once you learn your module, you should be able to do a complete set up in about 30 minutes. You should NOT have to change your playing style to adjust to an Electronic Drumset. If you need assistance, we will be pleased to assist you. If you have any questions, call our technical support line at 850-654-1466.

Thank You.



Electracoustic Percussion Products since 1989

HART DYNAMICS, INC. (HDI) Guarantees all Electracoustic® Percussion Products* against defects in material and/or workmanship for the life of the product** purchased from an authorized HDI reseller. All guarantee claims must be processed directly through HDI. HDI Electracoustic® Percussion Products are manufactured to patented design specifications for transducer protection (where applicable) and utmost durability. If you are experiencing any problems, please contact HDI with any questions or concerns for prompt and accurate assistance. HDI will repair or replace any product that fails including all shipping costs*** for 30 days from the invoice date of original sale from an authorized HDI retailer. All returns must be accompanied by a copy of the original sales receipt. After 30 days, HDI is not responsible for shipping and handling charges. This does not cover deterioration of any part due to normal wear and tear (i.e.: drum heads, replaceable playing surfaces, finishes, etc.), abuse or misuse. All wear and tear items are user replaceable and products are not required to be returned to HDI. User replaceable parts may be purchased through your preferred retailer or directly from HDI. Please contact our Technical Support Department for assistance in determining the nature of your problem. Most issues can be solved without returning the product to HDI. Any damage incurred during user replacement is the sole responsibility of the user. User alteration or modification of any HDI Electracoustic® Percussion Product may void guarantee. HDI reserves the right to evaluate and approve any product returned for repair or replacement and shipment must be properly packaged and shipped to Hart Dynamics for evaluation. No shipments will be accepted without a return authorization number (RA#) printed clearly on the package. HDI must be able to duplicate the problem with any product that is returned for service that user has determined is not functioning to factory specifications. Any product that is evaluated by HDI may be subject to additional charges.

Thank you for purchasing HDI products expertly hand crafted in the USA.

Please contact us with any questions or comments you have.

We are dedicated to 100% Customer satisfaction and personal customer service is our rule, not exception.

We look forward to providing you with the best products and service in the World!

For a Return Authorization number (RA#) please call
Customer Service at 850.654.1455
You may also e-mail hd@hartdynamics.com

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*** Shipping costs are for standard ground shipping via HDI's preferred shipping agent in the continental U.S. Expedited service is available for an additional fee which is equal to the difference between HDI's standard service and users choice of expedited service and/or users preferred service provider.





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