



**TRANS ATLANTIC  
DIESELS, INC.**

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## **Alternator Brackets, Adjusting Arms, Pulleys & More**

Shown at right:

Perkins Marine 4.108 Standard Fit,  
Heavy Duty, TAD Fabricated Alternator  
Bracket, Lifting Eye, Adjusting Arm  
and hardware.

**Reference Number:  
11 BRKT**



Suitable for all 2" single foot alternators such as the Standard Delco 7127 also, suitable for the 70 ~ 120 amp Balmar 621series and the 170 ~ 250 amp Balmar XT Series.

Alternators producing 70 ~ 100 amps can utilize the single ½" V belt while Alternators producing over 100 amps require a Serpentine or double V belt system where available.

We recommend our proprietary Serpentine Pulley Kit shown on our website at:  
[https://www.tadiesels.com/serpentine\\_4236.html](https://www.tadiesels.com/serpentine_4236.html)

**Perkins 4.236 Marine Standard Alternator Bracket for single V Belt use:  
Spacer for North American Manifold (factory Standard), Drop-Down  
Spacer for Bowman Manifold (optional), Standard Adjusting Arm &  
Hardware.**

Shown at right:

Standard Spacer, Standard  
Alternator Bracket and  
Standard Adjusting Arm

**Reference Number:  
22 BRKT**



Shown at right:

Bowman Drop-Down  
Alternator Bracket and  
Standard Adjusting Arm

**Reference Number:  
33 BRKT**



The Perkins 4.236 TAD Fabricated Standard Alternator Bracket is identical to the original factory bracket and must be used with a spacer.

The **22 BRKT** shown above is the standard bracket with a standard spacer for use with the North American Manifold.

The **33 BRKT** shown above is the TAD Drop-Down Spacer for use with the Bowman Manifold. Slots allow for alignment adjustment. It is suitable for most 2" single foot alternators such as the standard Delco 7127.

The TAD Fabricated Standard Adjusting Arm is also identical to the factory original with the addition of a second mounting point to work with the Bowman Manifold, so the adjusting arm is suitable for either the North American or Bowman manifold.

**Important Note: Applies to ALL 4.236 Alternator Brackets.**

*The bolts supplied for attaching the bracket spacer screw into the side of the timing gear casing. Supplied bolts are the correct length for that purpose. Because these are through holes, fitting longer/incorrect bolts can cause the bolts to protrude inside the timing cover and into the gears. This will severely damage or destroy the timing gears. If the existing studs are in good condition and are of suitable length, they can be re-used.*

Photo To Go Here

**Perkins 4.236 Marine Alternator Brackets for  
Serpentine and Dual “V” Belt Systems**

**NOT for single “V”**

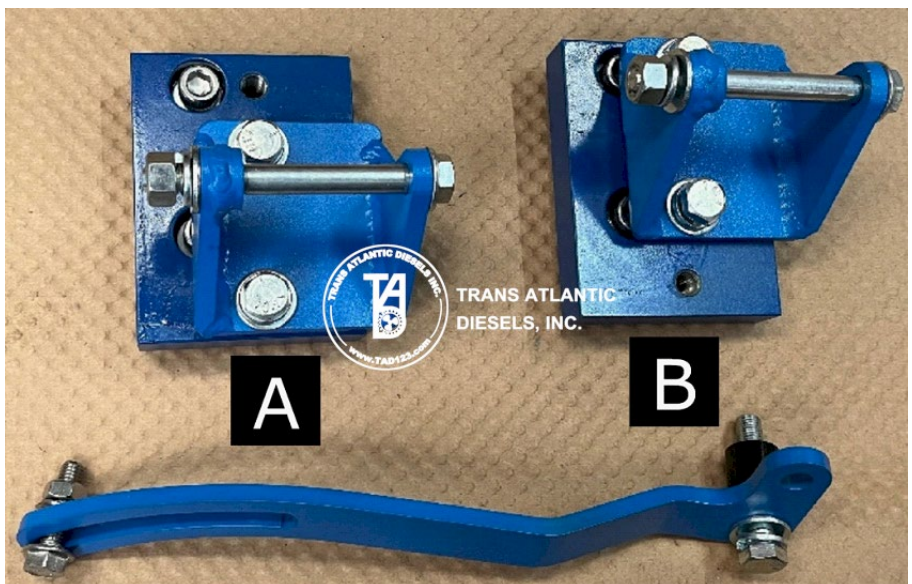
**A & B** Standard Alternator  
Bracket for Serpentine Pulley  
mounted on Offset Spacer

**Two Ways**

**A** - Drop-Down offset (for  
Bowman Manifold).

**B** - Horizontal offset (for  
North American Manifold)

**Reference #: 44 KIT**



**C** - Optional High Output Alternator Bracket for Serpentine Pulley on Balmar 621 series and large body alternators such as the XT Series and others.

**XT 250 will NOT work on A & B Brackets.**

Customized Adjusting Arm & Hardware as shown is required with both.

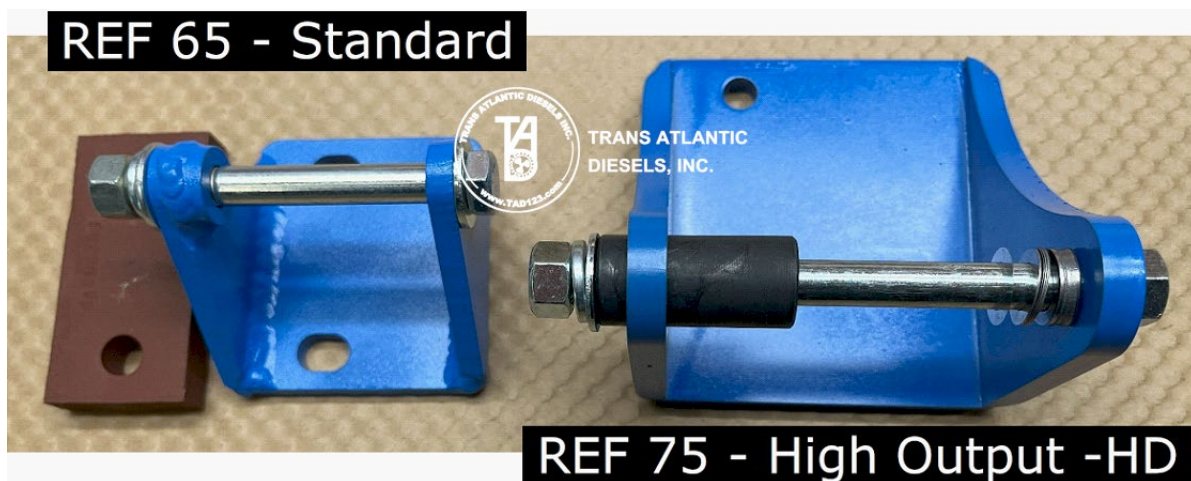


### Reference #: 55 KIT

Perkins 4.236 TAD Serpentine kits require either an Offset Spacer (standard with every TAD Serpentine Kit) or a TAD High Output Alternator Bracket to achieve belt alignment. The Standard Alternator Bracket is mounted flush with the top of the offset spacer with North American Manifolds and flush with the bottom with Bowman Manifolds.

The optional TAD High Output Alternator Bracket is necessary for Large Body Alternators such as the Balmar XT-250. It is used without a spacer as the offset is integral. The supplied Adjusting Arm is longer to provide additional adjustment.

## COMPARISON



**Perkins 4.236 Marine Standard Alternator Bracket with Factory Spacer (REF 65) and Serpentine High Output Alternator Bracket & Hardware (REF 75)**

The above comparison illustrates the differences between the Perkins 4.236 Marine Standard Alternator Bracket and the Serpentine High Output Alternator Bracket.

The High Output Bracket is made from thicker material. It has rigid mounting points, and a much wider adjustment range achieved with supplied shims rather than slots for more precise and rigid pulley alignment. It also guarantees axial alignment between all pulleys which is very difficult to obtain with slotted brackets.

(Serpentine Belts will last many hours on a properly aligned system, though TAD does recommend keeping a spare belt on hand.)

This bracket moves the alternator pivot point outward, downward and forward to accommodate larger bodied alternators such as the Balmar XT 250. It is used without the spacer required for the Standard Alternator Bracket.

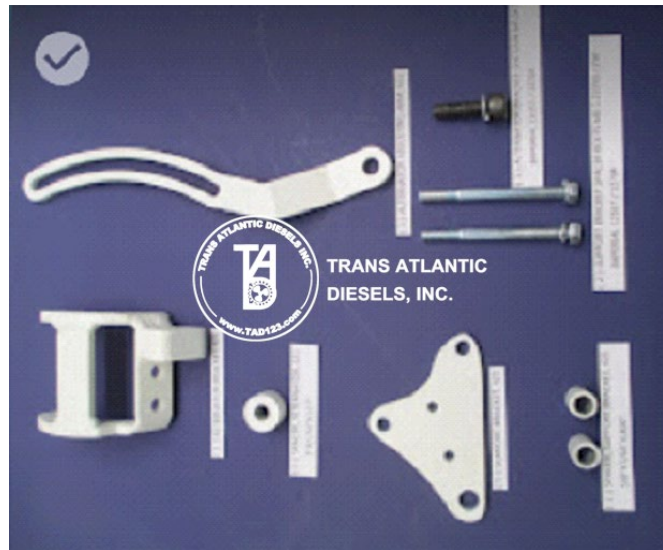
## Perkins 4.236 High Output HD Bracket with Standard Serpentine Pulley Kit



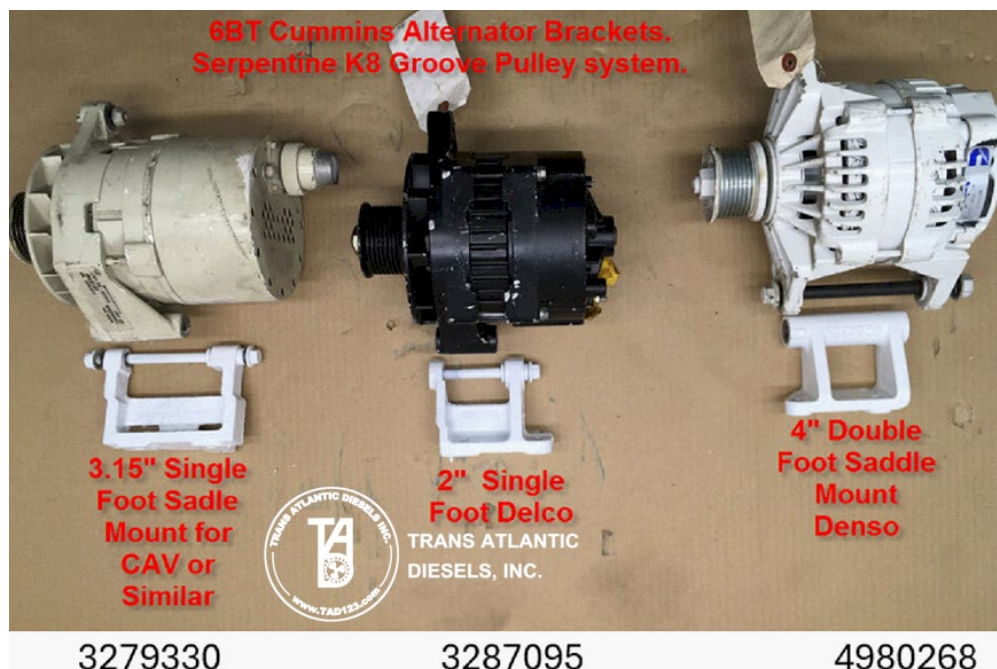
This system is suitable for use with most 2" foot alternators. It is designed to work with all three variants of the Perkins 4.236 Marine: North American, Bowman and Euro (Lowline).

The crank pulley is made with provision for optional stackable V pulleys (top right above). The kit displayed above, including a HD bracket, standard adjusting arm, and an optional stackable V pulley, is compatible with the Balmar Range, such as the 621 and XT Series, as well as other models on a 4.236M.

### Cummins 4B3.3M Bracket

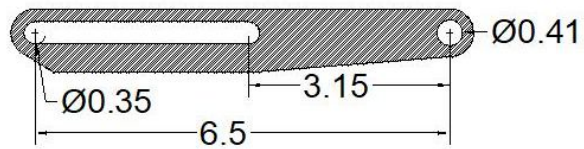


Cummins 4B3.3M Alternator Mounting Bracket for accepting High Output Alternator  
Below are the 3 optional Alternator Mounting Brackets for Cummins 5.9 6BT Marine Engines.

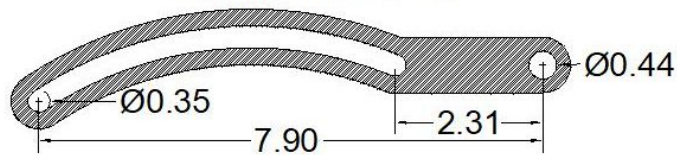


## We Stock Several Alternator Adjusting Arms

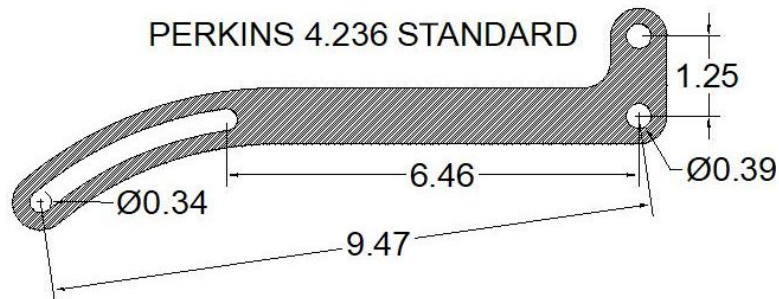
PERKINS 4.107/108 STANDARD



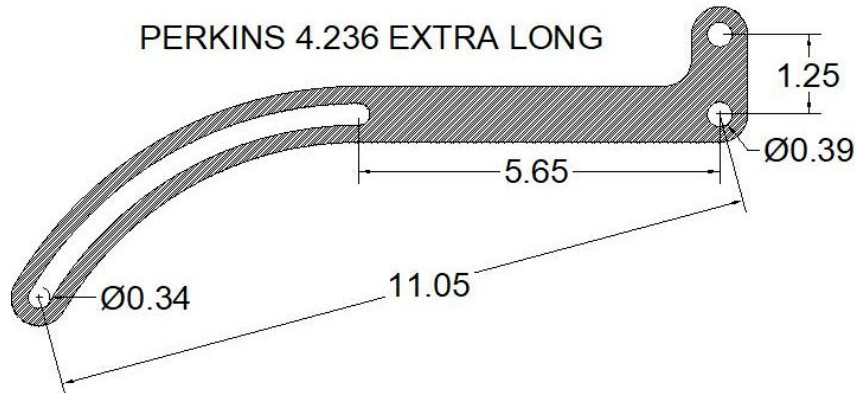
CUMMINS 4B3.3M



PERKINS 4.236 STANDARD



PERKINS 4.236 EXTRA LONG



Perkins 4.107/108 Standard:

5/16" Pivot to 5/16" Slot - Adjustment Range of 3.15" to 6.5"

Cummins 4B3.3M Std & 4.236 N.A.

7/16" Pivot to 5/16" Slot - Adjustment Range of 2.31" to 7.9"

Perkins 4.236 NA / Bowman Standard:

3/8" Pivot to 5/16" Slot - Adjustment Range of 6.46" to 9.47"

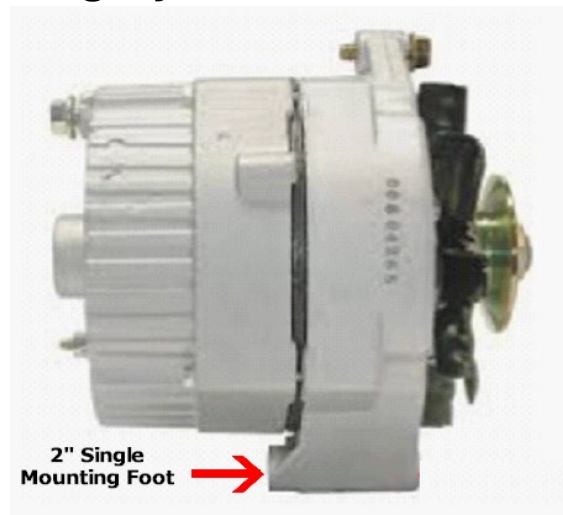
Perkins 4.236 NA / Bowman Extra Long:

3/8" Pivot to 5/16" Slot - Adjustment Range of 5.65" to 11.05"

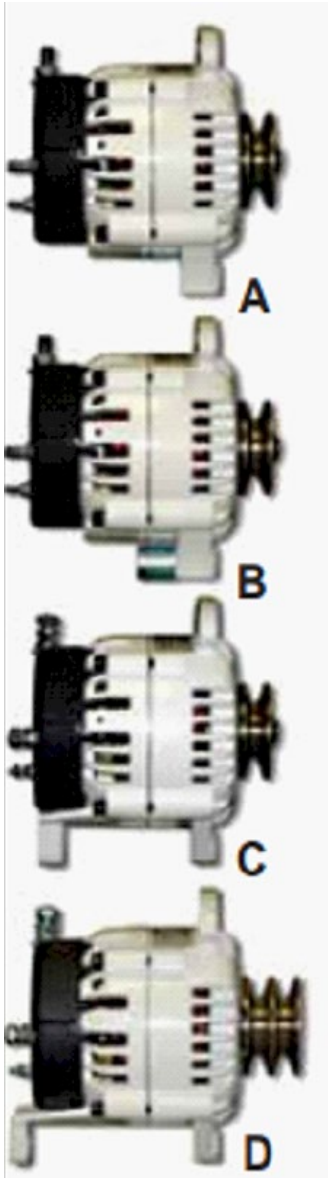
## Optional Mounting Styles

Shown at right is a typical, standard Delco Alternator with a 2" single mounting foot.

These alternators were often supplied as standard equipment on many North American Perkins marine engines.



### Identify the Alternator Mounting Style on Your Engine



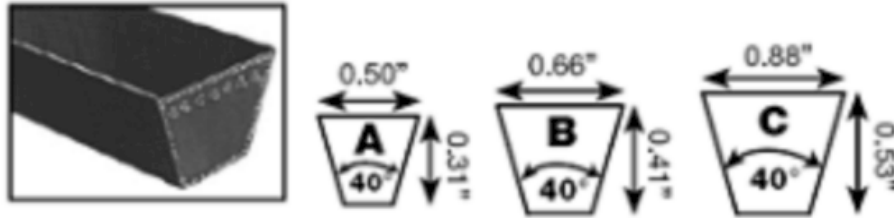
1" Single Foot (Spindle Mount) "Motorola Style"  
(Westerbeke, Lehman, Hino, Pathfinder)

2" Single Foot (Spindle Mount) "Delco Style"  
(Volvo, John Deere, Perkins, Mercruiser, GM Based)

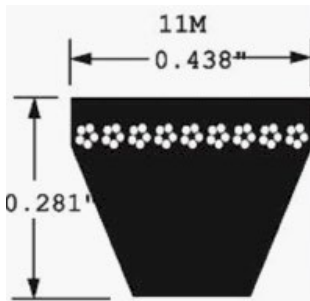
3.15" Dual Foot (Saddle Mount) "Hitachi Style"  
(Yanmar, Westerbeke, Lehman, Perkins)

4" Dual Foot (Saddle Mount) "J180 Style"  
(John Deere, Cummins, Caterpillar)

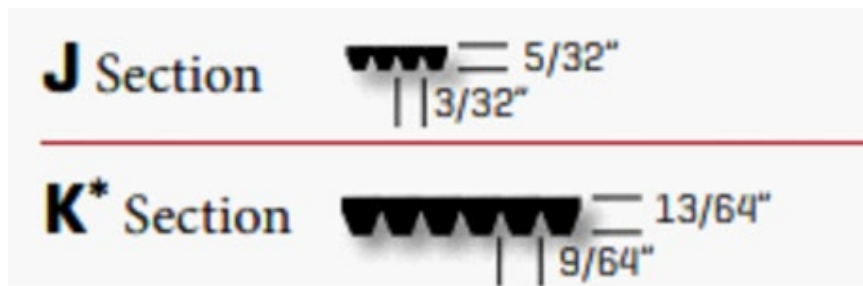
## Alternator Pulleys



Not to scale. **1/2 " (13mm)** across the top A Section belt used on most Perkins marine engines such as the 4.108M (later models) - 4.154 – 4.236 – 6.354 – Sabre Marine.



Not to scale. **7/16" (11mm)** across top section. Mainly used on Perama Marine Engines M20, 30, 35 also Prima M50, 60, 80.



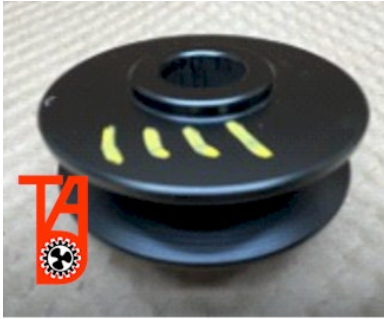
**“J” Section** Belts used in some Balmar Applications

**“K” Section** Micro V Belt for Serpentine Pulleys.

TAD Pulleys utilize **“K” Section Belts**, 6 & 8 Groove.

Most Perkins Marine Engines with standard factory alternators use a 1/2" V Belt known as A Section. The Prima and Perama engines use the narrower 3/8" belt.

## Alternator Pulleys: Serpentine and “V” Belt



### **1111**

Frequently used on Perkins 4.108M  
Suitable for A section 1/2" belt  
Diameter: 2.60"  
Bore: 17mm



### **1755**

Frequently used on Delco 19SI on Cummins 6B & 6C  
Requires 7/64" spacer  
K8 profile for serpentine belt  
Diameter: 2.57"  
Bore: 22 mm



### **1111M**

Used on Prestolite alternator  
Suitable for A Section 1/2" belt  
Diameter: 2.47" (modified)  
Bore: 17mm



### **1109**

Frequently Used on Perkins 4.236 & 6.354 Marine  
Suitable for Delco 7127 style alternators and others  
A section 1/2" belt  
Bore: 17mm



### **1270 & 1754**

Many applications including Balmar and Delco  
Uses tapered bush to retain (1754)  
8 Groove K8 profile for serpentine belt kits per TAD Inc.  
Diameter: 2.50"  
Bore: 17mm

*Note. We supply this for both our 6 & 8 Groove SP Kits.*



### **1315**

Balmar single V for use on Balmar 70 & 100amp 621 Series  
For 1/2" or 3/8" belt

Diameter: 2 3/4"

Bore: 17mm



### **1109M**

Frequently used on Perkins 4.236 & 6.354 marine  
Modified to fit Prestolite alternators.

A section 1/2" or 3/8" belt

Diameter: 2.60"

Bore: 17mm



### **1104**

Misc. applications where larger OD is required

1/2" or 3/8" belt

Diameter: 3.20"

Bore: 17mm



### **24753**

Used on Cummins B & C with Delco 19Si alternators

Requires a 7/64" spacer

K8 Groove Belt system

Diameter: 2.94"

Bore: 22mm



### **61-0020**

Balmar Dual "V"

1/2" belt

Diameter: 2 3/4"

Bore: 17mm



### **48-AM-38**

Balmar J10 Pulley

J series belt

10 grooves

Diameter: 2.47"

Bore: 17mm



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