



## TRIM IN LIMIT PIN

### For Bravo One, Two, and Three

#### NOTICE to INSTALLER

After Completing Installation, These Instructions Should Be Placed with the Product for the Owner's Future Use.

**NOTE:** Earlier Bravo Three models will be equipped with Trim-In Limit Blocks, later models will have a Trim-In Limit Pin. Later Bravo One and Two Models will also be equipped with the Trim-In Limit Pin.

It has been brought to our attention that some boats (predominantly deep-Vee heavy boats) will roll up on their side under certain, specific, operating conditions. The roll can be either to port or starboard and may be experienced while moving straight ahead, or while making a turn. The roll occurs most frequently at or near maximum speed, with the drive unit trimmed at or near full "In". While the boat will not roll completely over, the roll may be sufficient to unseat the operator or passengers, and thereby create an unsafe situation.

The roll is caused by "stern lift." "Stern lift" can be created by excessive drive unit trim "In." Under these extreme "stern lift"/"bow down" conditions instability can be created which may cause the boat to roll. Weight distribution to the stern can reduce "stern lift" and, in some circumstances, eliminate the condition. Weight distribution in the bow, port or starboard, may worsen the condition.

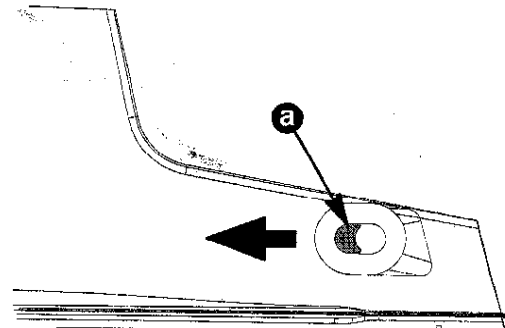
The Trim "In" Limit device reduces "stern lift" by preventing the drive unit from reaching the last few degrees of full trim under. While this device should reduce the rolling tendency, it may not eliminate the tendency entirely. The position of the Trim "In" Limit Pin, and its effectiveness in the limiting position, can only be determined through boat testing and is ultimately the responsibility of the boat manufacturer.

### WARNING

It is recommended that only qualified personnel adjust the Trim-In Limit Pin. Boat must be water tested after adjusting the device to ensure that the modified trim "In" range does not cause the boat to exhibit an undesirable boat handling characteristic if the drive unit is trimmed "In" at higher speeds. Increased trim "In" range may cause handling problems on some boats which could result in personal injury.

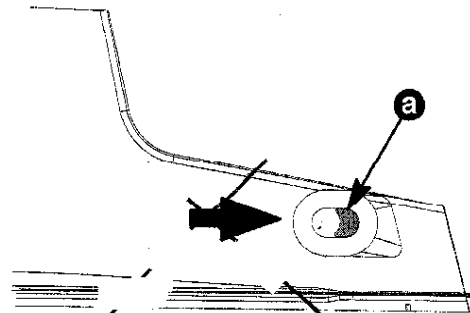
**IMPORTANT:** On Bravo One, Two, and Three Models, the "Trim-In Limit Pin" must be properly positioned before installing the trim cylinder anchor pin.

1. Ensure that the Trim-In -Limit Pin is positioned as shown for the appropriate Bravo model.



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Bravo One and Two (Positioned Forward)



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Bravo Three (Positioned Aft)

a - Trim-In Limit Pin

**IMPORTANT:** The position of the Trim-In Limit Pin on the Bravo Three stern drive unit should only be changed after the boat has been properly tested.