AXIS Anchoring Requirements and Instructions

Congratulations on the purchase of your Batca AXIS Exercise System. We hope that it will provide you with a lifetime of enjoyment to meet your strength training needs. Batca Fitness Systems strives to build the best quality exercise equipment on the market.

I. **When to Secure your AXIS Exercise System:** *All of the following configurations must be anchored to the floor before use. Failure to do so may result in the equipment shifting or tipping over during use which could result in serious injury or death.*

- **Single Station Configuration:** The AXIS Bodyweight Trainer, AXIS Smith Trainer, or AXIS Freeweight Rack.
  (The AXIS Free Trainer does not need to be anchored to the floor if sold as a single unit.)
- **Dual Station Configuration: C**onnecting any combination of two of the AXIS Bodyweight Trainer, AXIS Smith Trainer, or AXIS Freeweight Rack with the AXIS Shelf Connector A. ***Both stations must be anchored to the floor before use.***
- **Tri Configuration: C**onnecting any combination of three of the AXIS Bodyweight Trainer, AXIS Smith Trainer, or AXIS Freeweight Rack with the AXIS Shelf Connector A and the AXIS Shelf Connector B. ***All three stations must be anchored to the floor before use.***
  (If the AXIS Free Trainer is one of the three units being connected in the Tri Configuration floor anchors are not required.)

II. **Anchoring Requirements:**

- Make sure AXIS Stations are level and all mounting foot plates are sitting flat on the floor before anchoring. Do not allow the anchor to pull the machine flat to the floor.
- All aspects of subflooring along with the depth of the mounting plate should be accounted for when determining anchor length. The 3/8” LDT Concrete Anchors must have a minimum depth embedded into the concrete of 1 1/2" to ensure maximum pullout force, security, and stability.
- Anchors must be fully seated against the mounting foot plate. Failure to do so may result in shifting and could cause the anchor to become loose and back out.
- Anchor each AXIS unit at all of the provided locations. There are multiple anchor points (Two per mounting foot plate). ***It is the responsibility of the fitness facility to make sure all provided locations on the AXIS Stations are anchored appropriately and the machine is stable and secure.***
- Anchoring should be performed by a licensed professional.
- Concrete should be at least 3000 psi or greater.

III. Recommended Anchor Specifications *(or equivalent)*:

- Red Head LDT Anchor
  3/8” x 3” or 3/8” x 4” Concrete Anchor
  Drill Size: ANSI 5/16” Carbide Drill Bit
  Wrench Size: 9/16”
  Embedment Depth: 1 1/2" Minimum
  Ultimate Pullout *(in 3000 psi Concrete)*: 6,600 lbs

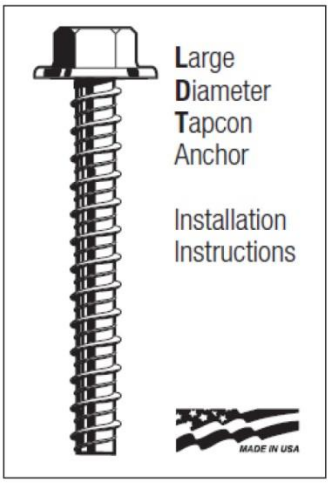
Red Head LDT Installation Video

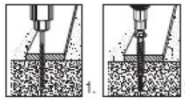
(Click or scan)

IV. Anchor Installation Instructions from the manufacturer:

RED HEAD

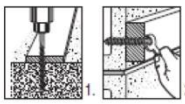
LDT Anchor





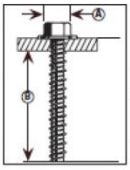
Installation Steps for Concrete, Lightweight Concrete and Metal Deck

1. Using a 5/16" carbide drill bit (for 3/8" LDT), drill a hole at least 1" deeper than anchor embedment.
2. Using an impact wrench or manual socket wrench, insert anchor into hole and tighten anchor until fully seated. If installation torque exceeds 50 ft lbs using an impact wrench, remove anchor from hole[1]. Reinstall new 3/8" LDT anchor using a manual socket wrench.



Installation Steps for Hollow or Grout-Filled CMU

1. Using a 5/16" carbide drill bit (for 3/8" LDT), drill a hole at least 1" deeper than anchor embedment.
2. Using a manual socket wrench, insert anchor into hole and tighten anchor until fully seated. Do not use an impact wrench for installations in hollow or grout-filled CMU.



LDT 3/8 AND LDT 3/8 X FOR USE IN:		
Concrete	CMU	
	Hollow	Grout-filled
YES	YES	YES

LDT SIZE*	ANSI STANDARD DRILL BIT DIAMETER	Ⓐ ANCHOR HEAD (SOCKET SIZE) DIAMETER	WASHER DIAMETER	MAX INSTALLATION TORQUE	MAX IMPACT WRENCH TORQUE RATING	Ⓑ MINIMUM EMBEDMENT	MINIMUM HOLE DEPTH
LDT 3/8	5/16"	9/16"	13/16"	50 FT LBS	150 FT LBS	1-1/2"	2-1/2"
LDT 3/8 X	5/16"	9/16"	13/16"	50 FT LBS	150 FT LBS	1-1/2"	2-1/2"

* See catalog for effective lengths and length indication codes. LDT(X) available with corrosion resistant Envirex™ coating.

WARNING! Always wear safety glasses and other necessary protective devices or apparel when installing or working with anchors.

CAUTION:

[1]Observe torque values particularly when installing anchor in higher compressive strength concrete with an impact wrench. Over-torquing may result in lower tension and/or shear performance of the anchor.

Use of core drills is not recommended to drill holes for use with this anchor.

Not recommended for use in new concrete which has not had sufficient time to cure.

The use of carbide drill bits manufactured within ANSI B212.15 drill bit diameter requirements is recommended for installation of this anchor.

Anchor spacing and edge distance requirements (anchor installation locations) are the responsibility of the engineer of record. Call tech service for values.

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