

Lifting Instructions for FlexPak 3000 and WebPak 3000 DC Drives

Instruction Manual D2-3414-1



ATTENTION: To guard against possible personal injury or equipment damage:

- Do not allow any part of the drive or lifting mechanism to make contact with electrically charged conductors or components.
- At no time should persons or their limbs be directly underneath the items being lifted.
- Do not subject the load to high rates of acceleration or deceleration.
- Inspect all lifting hardware for proper attachment before lifting drive unit.

Failure to observe these precautions could result in severe bodily injury or loss of life.

Lifting Component Ratings

All lifting equipment and lifting components (hooks, bolts, lifts, slings, chains, etc.) must have a minimum lifting capacity of 455 kg (1000 lb).

Drive Mounting

Perform the following steps to mount the drive. Note that horizontal mounting is not permitted.

Step 1. Check the hole pattern on the panel to which the drive will be mounted. Refer to figures 2 through 5 for the correct pattern.

Step 2. Insert, but **do not** fully tighten the bolt(s) in the top hole(s) of the panel. Bolts must be fully threaded into the panel before hanging the drive as shown in figure 1.

Important: Insert properly sized and rated lifting hooks into the top two 1-inch holes of the drive chassis (see figure 6). To limit pull in forces on the drive, the lifting devices connected to the hooks must be long enough to make the angle between the chain and a vertical line extending up from the cabinet edge less than 45 degrees as illustrated in figure 6.

60 HP and smaller drives do not have lift holes in the top of the drive chassis. If using hooks or lift eyes with these units, place them in the handholds on the side of the cabinet.

Step 3. Lift the drive into place over the top bolt(s). Verify that the bolt heads on the panel engage properly into the keyhole slots on the drive.

Step 4. Once the top bolts are properly seated, the bottom bolts can be installed and tightened.

Step 5. Tighten all bolts as follows:

Horsepower	Fasteners	Torque
3 HP to 60 HP @ 460 VAC (1.5 HP to 30 HP @ 230 VAC)	M6 or 1/4 in	3.7 Nm (33 lb-in)
75 HP to 150 HP @ 460 VAC (40 HP to 75 HP @ 230 VAC)	M8 or 5/16 in	11.3 Nm (100 lb-in)
200 HP to 600 HP @ 460 VAC (100 HP to 150 HP @ 230 VAC)	M10 or 3/8 in	23 Nm (200 lb-in)

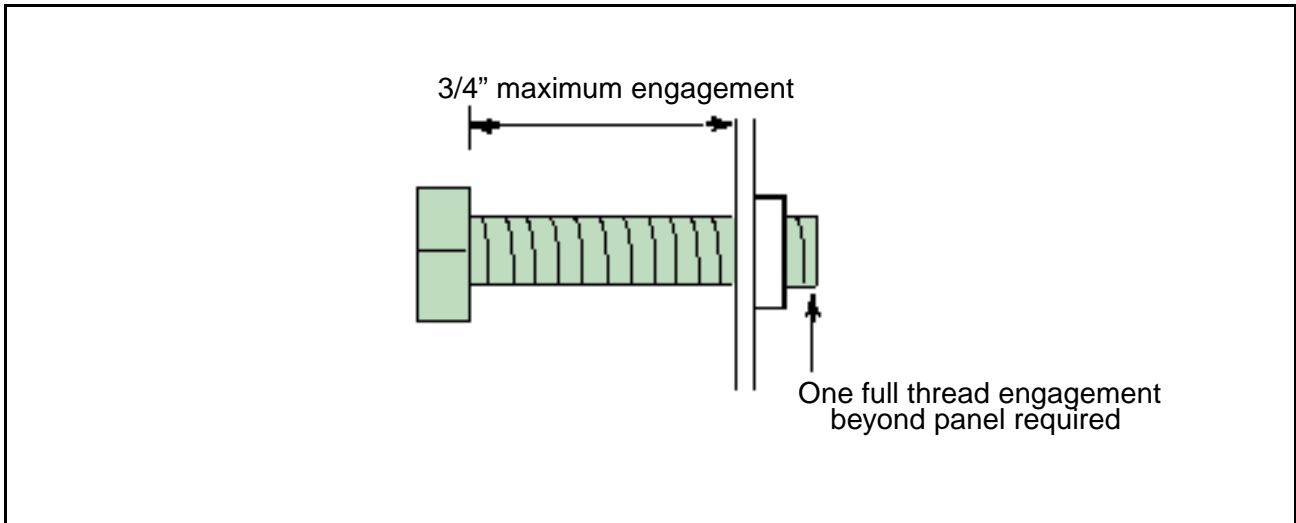


Figure 1 – Mounting Bolt Engagement

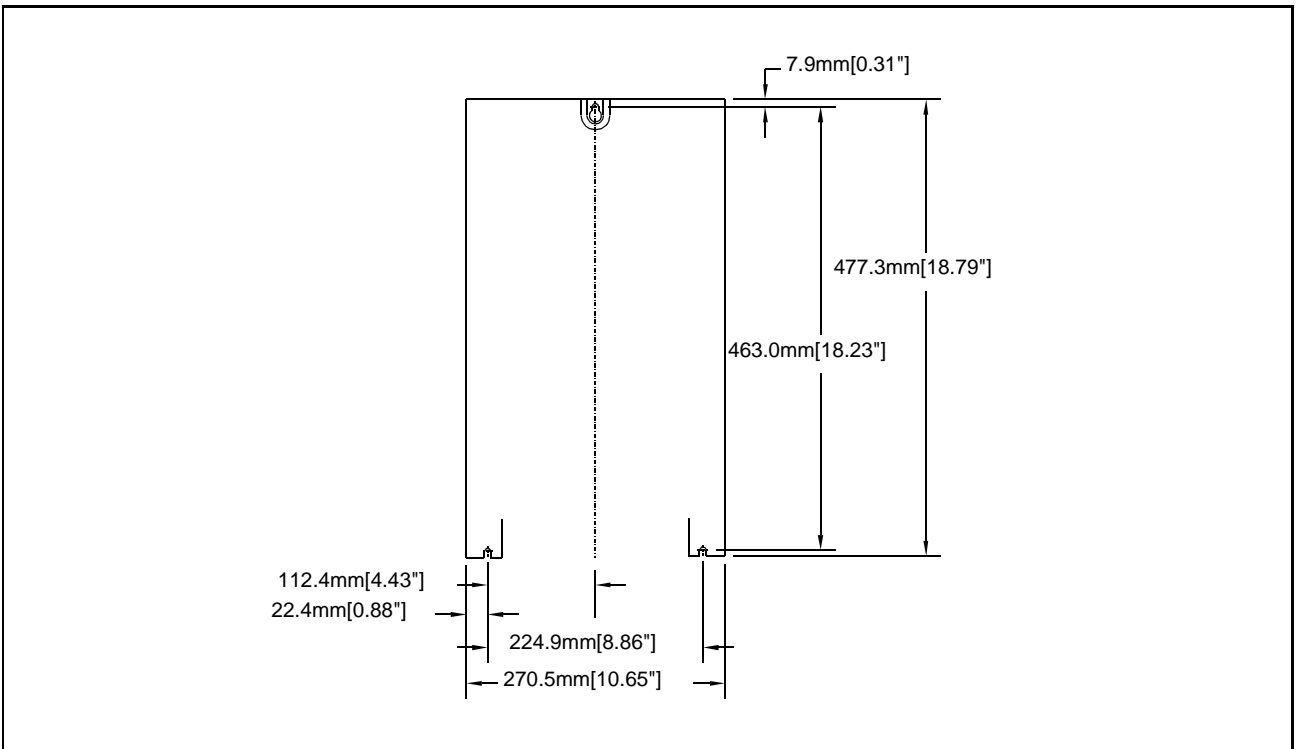


Figure 2 – 1.5 HP to 30 HP @ 230 VAC / 3 HP to 60 HP @ 460 VAC Drive Mounting Hole Pattern

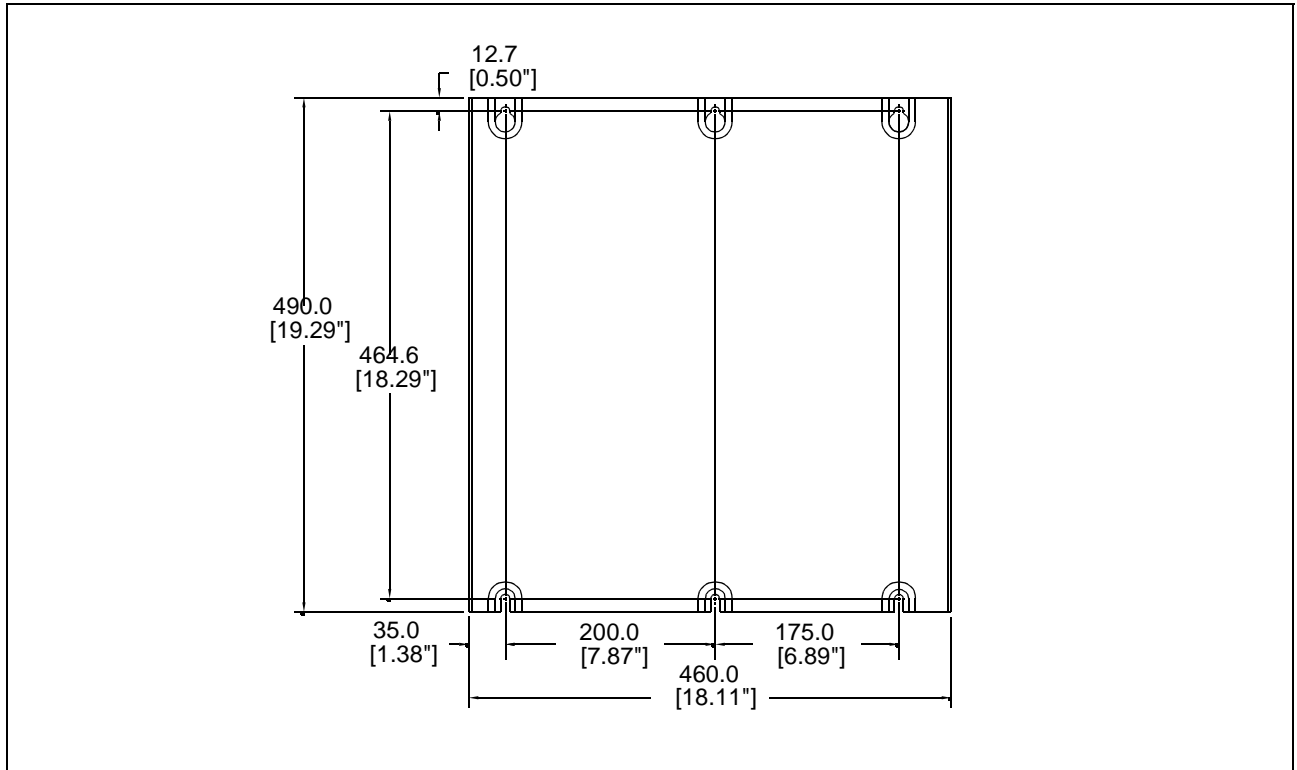


Figure 3 – 40 HP to 75 HP @ 230 VAC / 75 HP to 150 HP @ 460 VAC Drive Mounting Hole Pattern

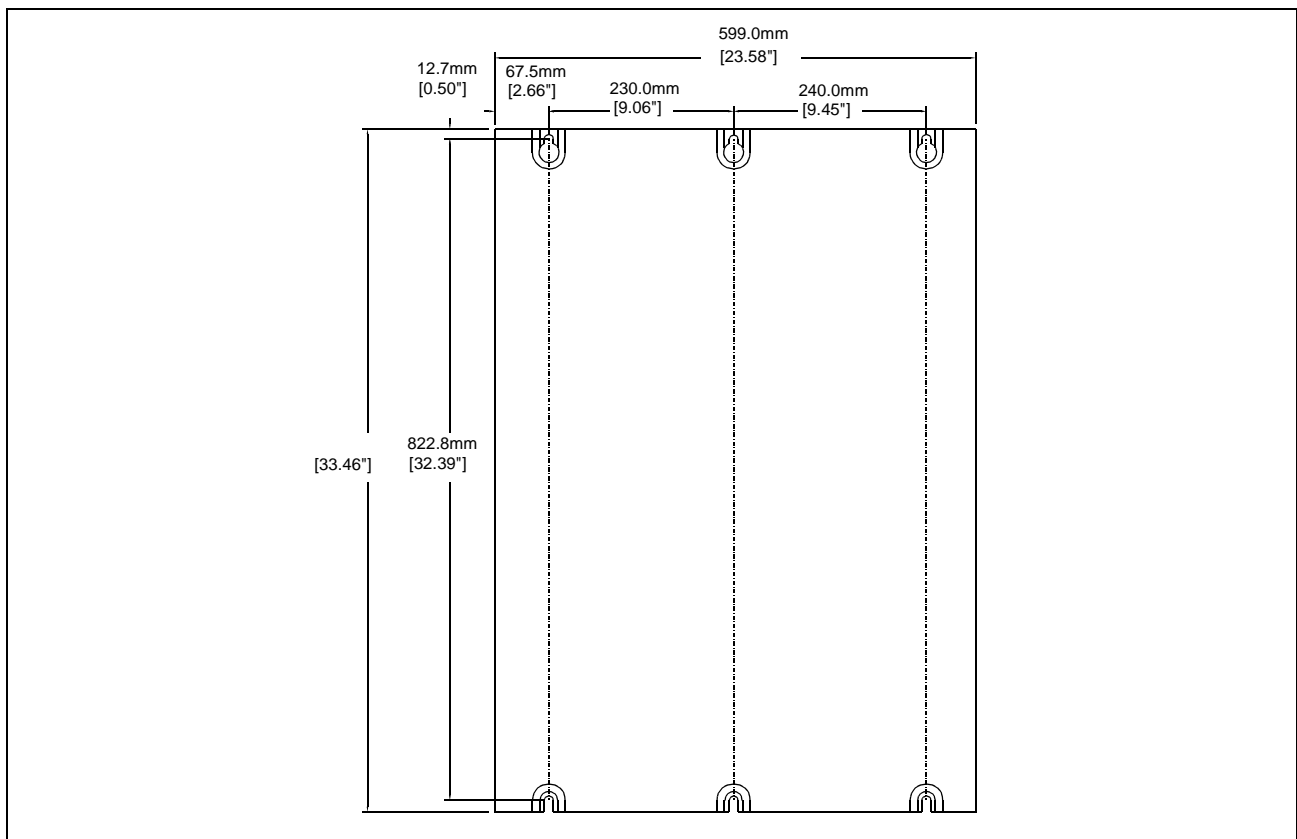


Figure 4 – 100 HP to 150 HP @ 230 VAC / 200 HP to 300 HP @ 460 VAC Drive Mounting Hole Pattern

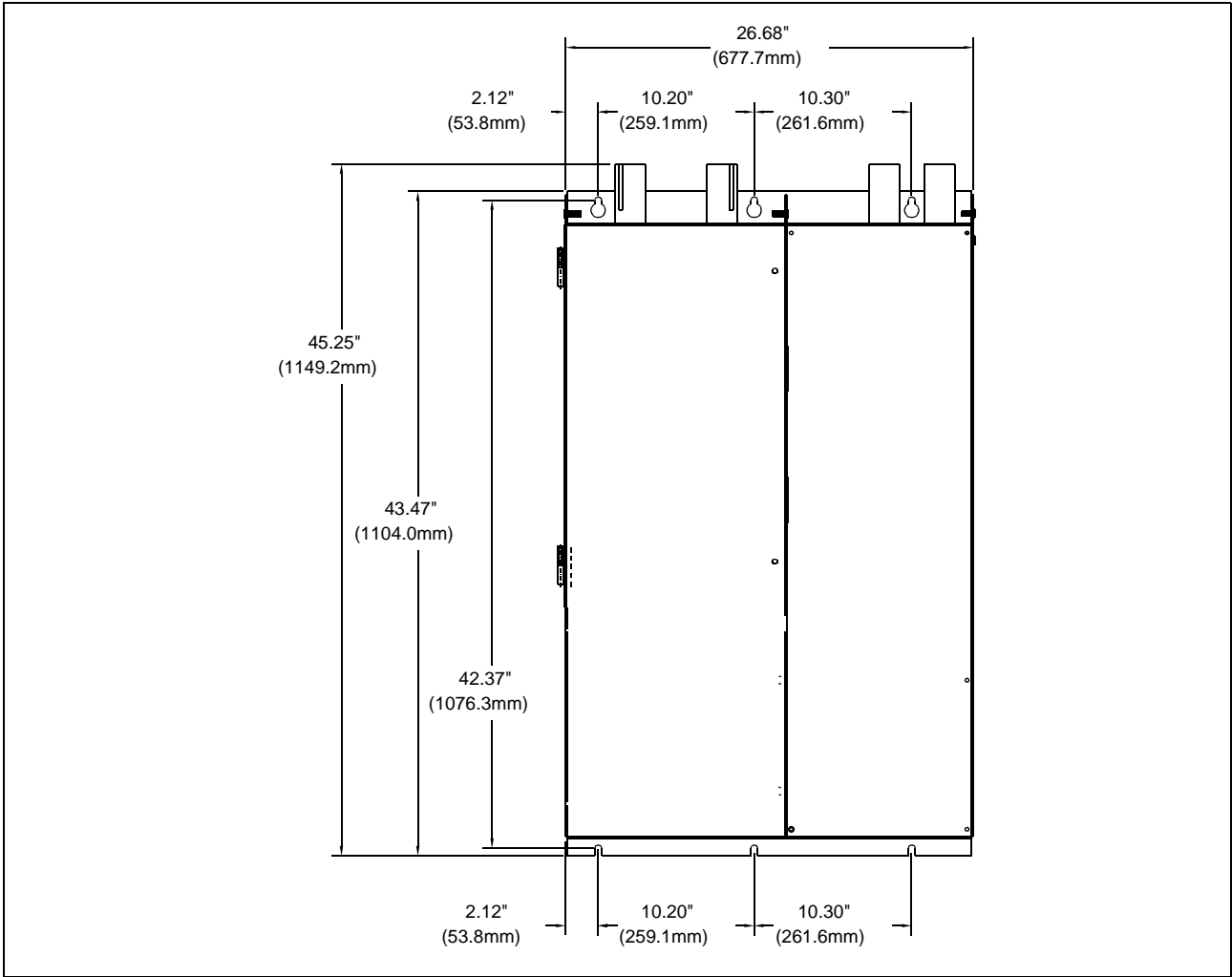


Figure 5 – 400 HP to 600 HP @ 460 VAC Drive Mounting Hole Pattern

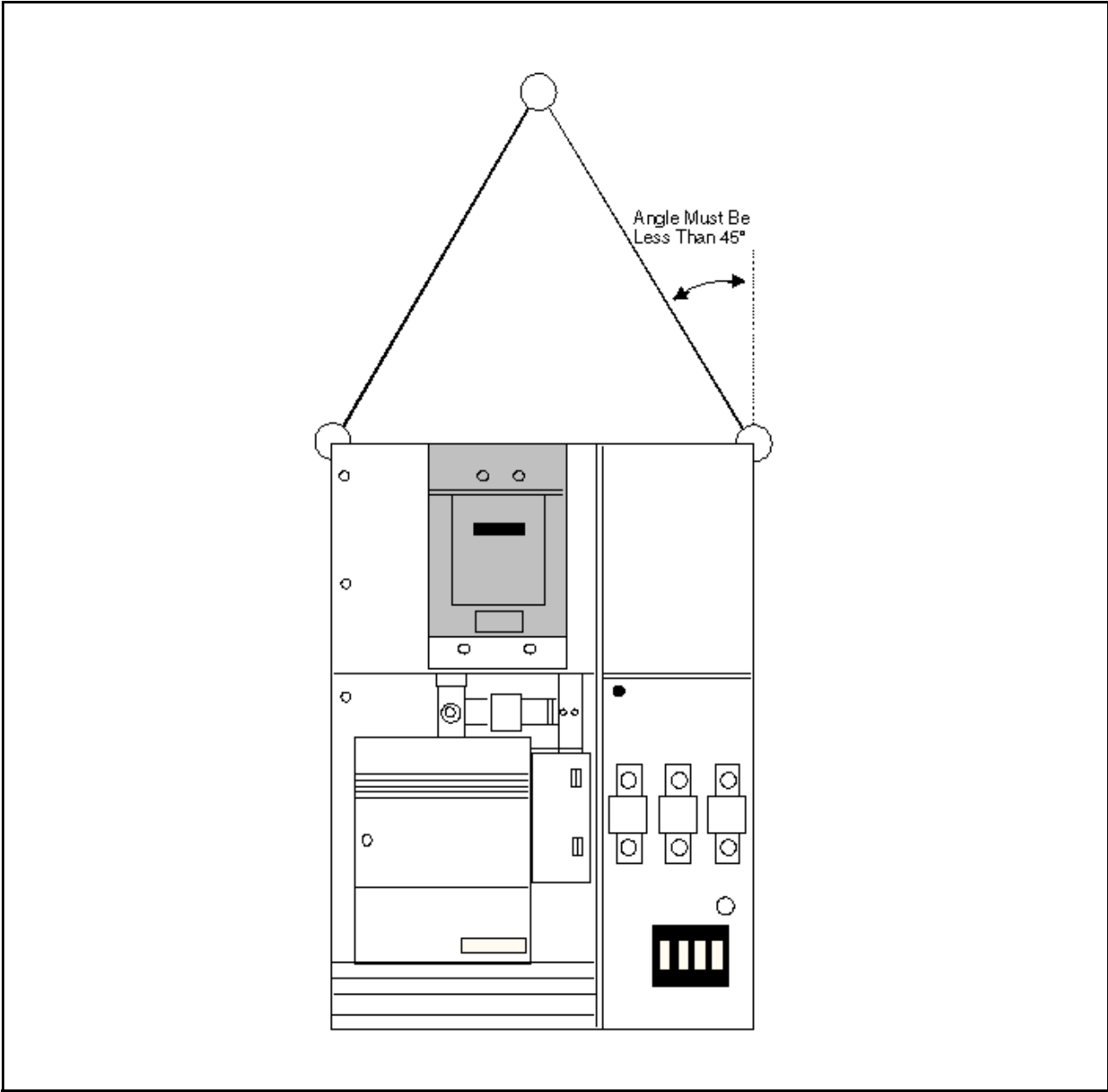
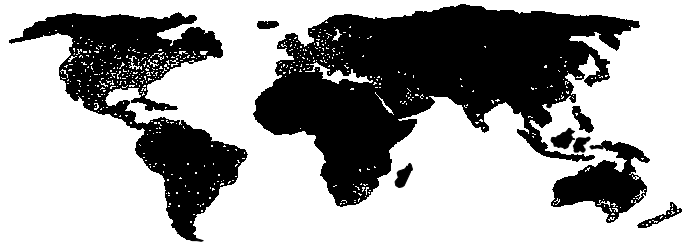


Figure 6 – Lifting Angle Arrangement

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