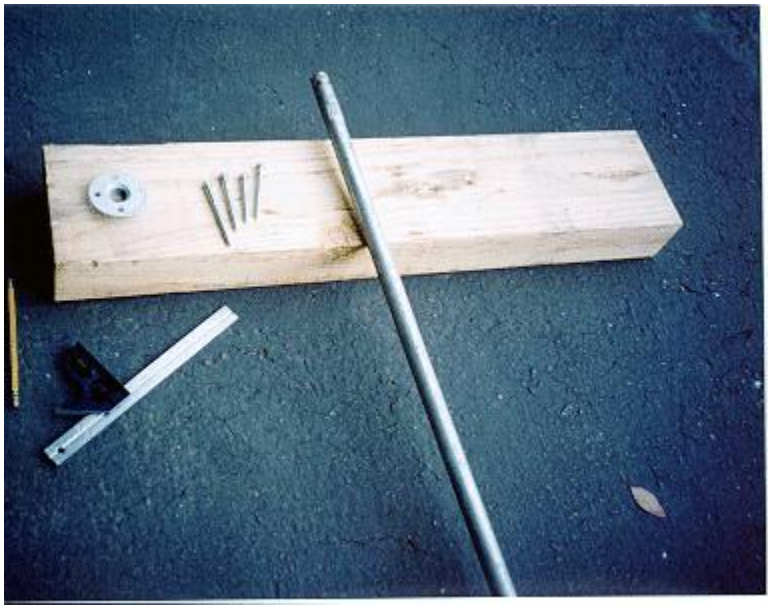
Inexpensive Bike Lift

Design by Rikko / Photos by Rikko, Zeb_UK

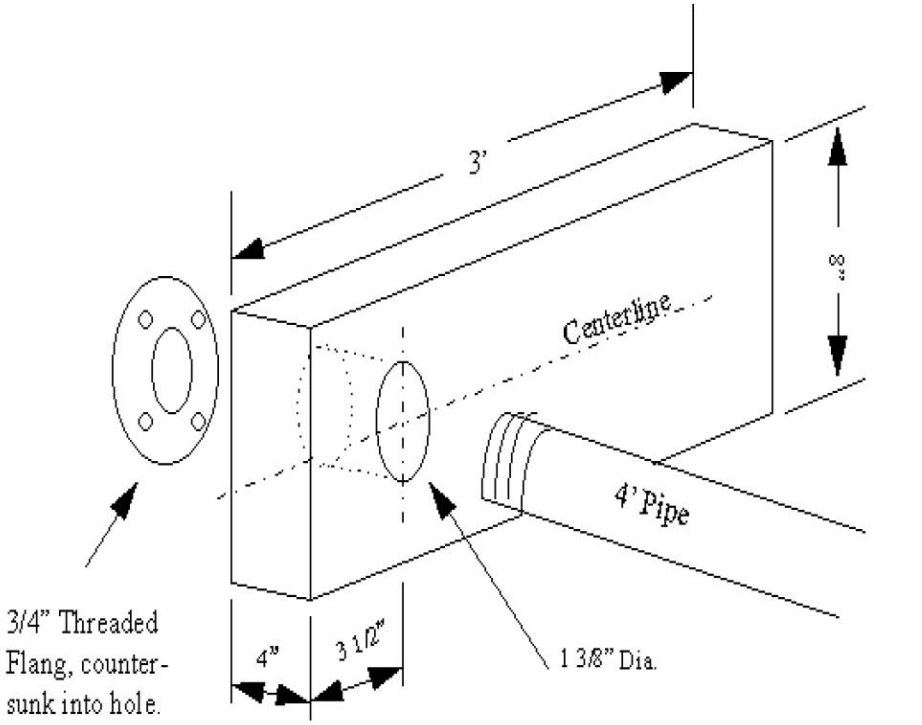
Here is the shopping list: (If you already have some of them laying around your garage you'll $ave even more!)



Qty	Item
1	4 ft. long 4" x 8" (2 3' 2"x8" pieces can be used bolted together)
1	4' x 3/4" galv. threaded pipe
1	3/4" galvanized pipe flange
4	3" x 1/4" lag bolts
6	3" x 5/16" lag bolts if bolting together 2"x8" pieces

You'll need the following tools to assemble your lift:

- Pencil & Ruler
- Electric Drill. You WILL run down a cordless drill!
- 1" & 1 ¼" Paddle bore drill bit (Will cost about $5 at Home Depot)
- 3/16" Wood drill bit
- Socket set to tighten lag bolts
- Small pipe wrench



Instructions:

1. Locate and mark a point on the 8" wide side of the 4"x8"x3' piece of wood that is 3 " from end and on the centerline of its length
2. Using the 1" paddle bore drill bit, drill a hole through the 4" thickness of the wood centered at the point marked above.
3. Countersink one side of the hole with the 1 1/4" paddle bore bit so you can place the pipe flange flush into the hole with the raised part of the flange in the hole. Mark the four Lag Bolt hole locations on the wood.
4. To ease screwing in the Lag Bolts, pre-drill each lag bolt hole with the 3/16" bit.
5. Re-seat the flange in the countersunk hole, then screw the lag bolts in securely with the socket wrench.
6. Insert the 4' galvanized pipe through the bored hole threading it into the flange and tighten with the pipe wrench. You may have to tap the pipe into the hole, Try some dish washing liquid to ease the pipe in. It's a tight fit, allowing the pipe to take some of the load form the flange. If need be, remove the lag bolts, pull the flange out, place the pipe all the way through the hole, then tighten the flange on the pipe. Pull the assembly back down and put the lag bolts back in. Tighten the bolts, then with your pipe wrench, tighten the pipe as far as you can into the flange. Be careful, the pipe will not thread all the way to the bottom of the flange.
7. Additionally, for safety and security you might purchase two 1" eye-bolts. These would be fastened to the lift so you could run a strap through them and over the seat to keep the bike from falling on either side. Place these eyebolts a few inches from each end of the lift, on the "top" of the lift. The top would be the skinny side that faces up after you've lifted the bike.

Your done! You may want to paint the pipe red or orange so it stands out and alerting you not to accidentally trip on it. Another suggestion is to wrap some duct or electrical tape around the handle end of the same pipe for comfort and maybe, stapling or tacking down some old carpet over the lifting edges of the 4" x 8" will keep the wood from removing paint from your frame each time you lift your beautiful ole scoot.

To operate your lift:

Insert the wood directly under your frame somewhere beneath the engine. Check that you won't be putting pressure on something you shouldn't and insure the ground beneath your bike is level). If you can, with your left hand hold your bike upright leaving the kickstand extended outward.

Now push the handle of your new lift rearward and downward. Wah-laa! Your bike is lifted and in an upright position making it easier to work on, clean and to check the oil.