

## Borrowing from a Moller Pitman Chest

by Frederick F. Whiteside

This procedure can be used to borrow a manual rank of pipes into the pedal, such as borrowing the first 20 notes of an 8' Trumpet to fill out a 16' extension. This method, staying with the pneumatic action, requires a new primary action prepared for tubing to the top of the manual chest. (Converting the chest to electro-mechanical would be easier.)

1. Drop the bottom boards and pouch boards as needed; remove pitmans, retainers and ferrels for the notes desired; remove pipes as necessary for drilling clearance and vacuuming.
2. With a long 1/4" drill, drill up through the top board exhaust holes- beware of pouch board alignment pin holes, rack pins and possible screws at the top board; redrill from the toeboard side with a 5/16" drill-tubing size; vacuum all areas.
3. Mount primary action nearby and run tubing, gluing tubes in place- electrical tie-wraps work nicely to group tubes together.
4. On the underside of the chest, glue punchings over ferrel holes or dowel them closed; glue a 1" wide rubber cloth strip over the old retainers to seal the bottom board channels.
5. Replace pouch boards and bottom boards; adjust primary action for speed.
6. Wire action to new switches, etc, for manual and pedal.

-----  
-----Chris Nagorka adds: Instead of gluing the tubing into the toeboard, I would suggest drilling the holes slightly smaller and using brass ferrels inserted into the holes. Arndt supplies these, and while slightly more expensive, it makes service much easier if anything has to be removed- just slip the tubing (neoprene or vinyl) over the ferrels. This way, the tubing can be replaced easily, rather than having to break glue joints.