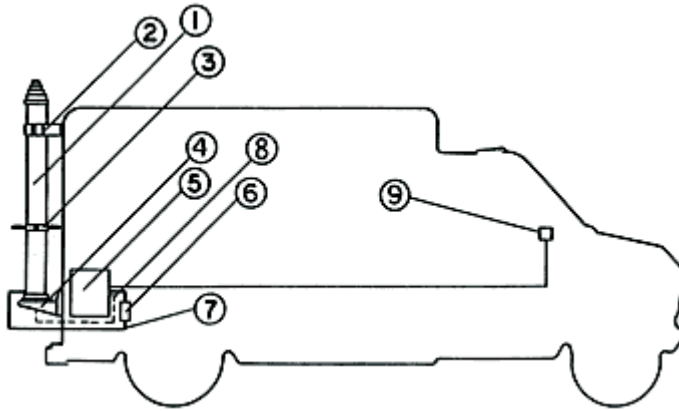




## Mast Installation – External Mounting

**WARNING: Proper installation is critical to safe operation and must be performed by qualified technicians.**

1. When selecting the location for the mast on the vehicle, check the strength and rigidity of the body where the mast is to be externally attached.
2. Make sure the vehicle is on a flat level area.
3. Securely attach the external shelf bracket to the vehicle making sure it is level.
4. Attach the base plate to the shelf bracket.
5. Attach the external support bracket around the mast below the collar on the mast base section. Refer to [Service Sheet No. 401](#) for the minimum and maximum heights allowable for attachment of the support bracket.
6. Secure the support bracket to the wall structure. Spacers may be added between the support bracket and the wall as needed to keep the correct alignment between the support bracket and the shelf bracket.
7. Periodically inspect all fasteners and welds to make sure the mast is securely attached.
8. A bottom air inlet is available on all standard model masts. The base plates and external shelf brackets are machined to allow access to the bottom air inlet. Swivel fittings for the bottom air inlet are available for rotatable masts.
9. Air to operate the mast may be provided by an air compressor or other source of clean dry air. The air system should be regulated to not exceed the maximum operating pressure of the mast being used. Refer to [Service Sheet No. 413](#) for installation instructions of the pneumatic system.
10. For rotatable masts, locate the turning handles at a desired height. Tighten the turning handle bolts just enough to allow the turning handles to rotate the mast without slipping. Tightening the turning handles too much can deform the base tube and impede the movement of the next internal mast section. Lock the mast in place by tightening the locking screws located on the base plate. The locking screws should be tightened in against the mast at all times unless the mast is to be rotated. If the mast is to be rotated, loosen the locking screws so they do not contact the mast. Rotate the mast to the desired position. Retighten the locking screws.



1. Mast
2. Support Bracket
3. Turning handles (with manually rotatable mast)
4. Shelf bracket
5. Pneumatic system (several models available)
6. Air control valve
7. Air hose (side air port)
8. Air hose (bottom air port)
9. Warning light

SHEET 412

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