

MIP360 MOUNTING CONSIDERATIONS

REV 1, JANUARY 10, 2005



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Overview

Printers commonly designed for horizontal operation on a desk top are unsuitable for delivery truck installation. The limited space within a delivery truck's 'day' cab requires a vertical mounting. The MIP360 and its various mounting components are designed specifically for truck cab installation, but due to an unlimited variation of features, each vehicle must be analyzed individually. This document is intended to help with that analysis.

Some factors which affect the installation include:

- Make, model and year of vehicle
- Cab style (virtually all delivery vehicles have 'day' cabs)
- Seat configuration
- Transmission type, shifter location
- After market/user installed equipment or modifications

General Considerations

1. The mounting must be mechanically sound. It cannot have resonances that would subject the printer to unacceptable g forces.
2. It should be aesthetically attractive.
3. It must not interfere or encumber the driving of the truck, the view, shifting, or steering.
4. It cannot sacrifice delivery operations, such as usurping the passenger seat if it is needed for a second person.
5. It cannot create any safety hazard in the operation of the vehicle, or increase risk of injury in the event of an accident.
6. It must allow reasonable operation of the printer, printing pages and tearing them off
7. It must ensure reliable printer operation, including paper feeding.
8. In so far as practical, it should keep the printer and paper supply invulnerable to accidental abuse, objects falling inside the printer, soiling or fouling of the paper supply.
9. It must permit a reasonable procedure for servicing the printer, loading paper, and changing ribbon.
10. It must not encourage misuse of the printer, such as leaving the covers off, or unlatched.

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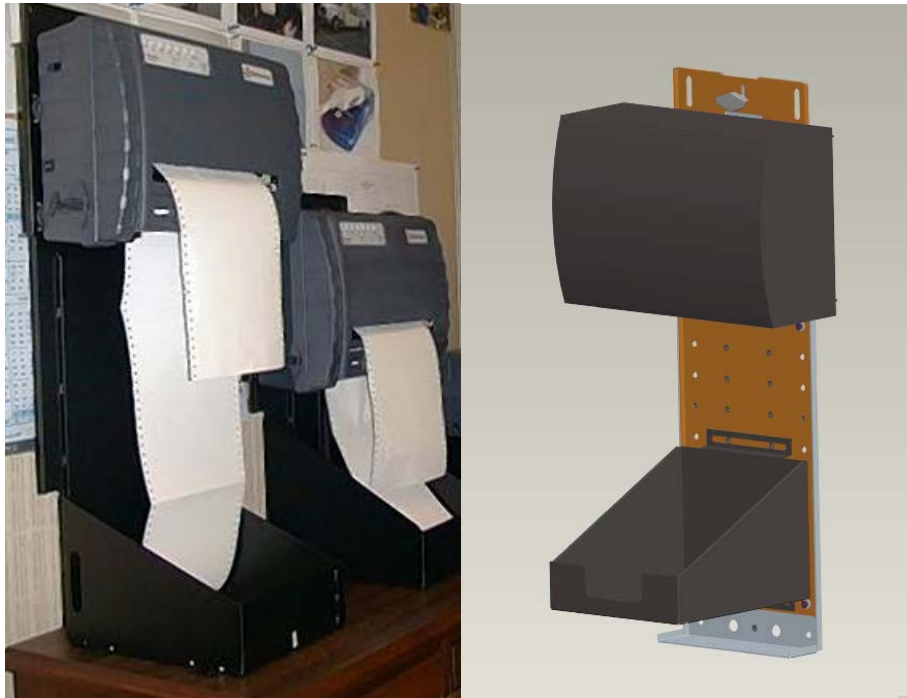
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MIP360 Mounting System

The MIP360 Printer mounting philosophy utilizes a heavy duty steel stand which is permanently installed in the truck. The printer is mounted to the stand by means of a quick-release three-point locking system. As a result, the printer is held firmly and securely, while permitting it to be removed and exchanged in seconds and without tools.

Three different mounting stands are offered to accommodate a variety of truck installations.

- BUVL01** **Vertical Printer Stand, 36"** used in many bucket seat vehicles – mounts to floor and/or rear cab wall (shown on the left).
- BEVL01** **Vertical Printer Stand, 24"**, with paper box, used for many bench seat and other vehicle applications where this height stand is appropriate. with integral fixed paper supply box (shown in the center).
- BCVL01** **Vertical Telescoping Stand, 34" to 54"**, adjustable in height, used in Bucket Seat applications where extra height is needed for seat clearance (height ranges from 34" to 54" in 2" increments.) The large paper box is also position adjustable (shown on the right).



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Horizontal Stand, 6", with paper box, used for benches, table top and other workroom applications

Photo
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MIP360 Printer,



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Choosing a Stand

Bucket Seats: For cabs equipped with bucket seats and sufficient room between, the preferred printer mounting is the 36" stand (shown on the left), between the seats, against the rear wall, with the printer facing forward (shown here mounted in a Ford L8000).



In some cases the 24" stand (as shown at right mounted in a Freightliner) may be more suitable, but the lower printer position makes loading paper somewhat difficult.

The printer requires a minimum of 20 inches horizontal clearance. Be sure to take into account the air ride seat's maximum height, and the folded position of the armrests.

Bucket Seats, but too close together: In this brand new Kenworth, the seats are much too close to accommodate the width of the printer. In this case the telescoping stand is recommended. It is secured over the rear window and the printer is mounted high up to clear the arm rests, and where the seats taper inward sufficiently to provide the necessary 20 inches horizontal spacing.



Shifter Interference: The 36" stand rests on the floor (or on the step) in the cab on the left, but the shifter got in the way in the cab in the middle. The solution is use the telescoping stand with its adjustable paper box. Raising the paper box a few inches lets it clear the shifter.



Note, the truck in the photo on the right did not have a problem with the shifter, but the fleet manager chose the telescoping stand anyway, in anticipation of reusing the stand when he trades this truck for a Kenworth.

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Bench Seats: When the truck is equipped with a bench seat, either full width, or 2/3 width and used in conjunction with a driver's bucket seat, the only practical location to install the printer is on the bench seat itself. Use the 24" vertical stand and a bench seat mounting kit.

A pair of cinch straps hook to the bottom of the stand and thread between the bench and back. The other end hooks to the top of the stand and the strap is drawn tight. The kit also contains a foam pad to be used under the stand.

The strap kit must be ordered separately.



Mounting Kits:

1A4299K01

Kit, Stand Mounting Hardware: consists of appropriate bolts, nuts and spacers for most applications. This kit can be used with either the 24" high or the 36" high stand when mounted to the truck floor and/or back cab wall

1A4296K01

Kit, bench seat stand strap set: for use with the BEVL01 stands when required. The straps fasten to the top and bottom of the stand, and go around the back of the seat. A foam seat pad is also included.

These photos show a typical mounting to the floor, and through the back wall respectively, using the hardware kit.

