

RoadRAMP

Mini Twin & HD BYPASS™ Units

Installation Instructions

Introduction

Install **BYPASS™** units using similar installation techniques used for regular road tube.

Mini Twin and **Heavy Duty BYPASS** are compatible with most traffic counters from - **JAMAR, IRD, TimeMark, Diamond, Metro Count, PEEK**, etc.

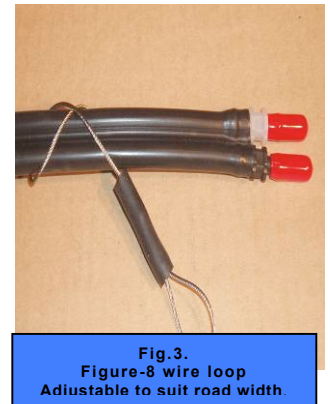
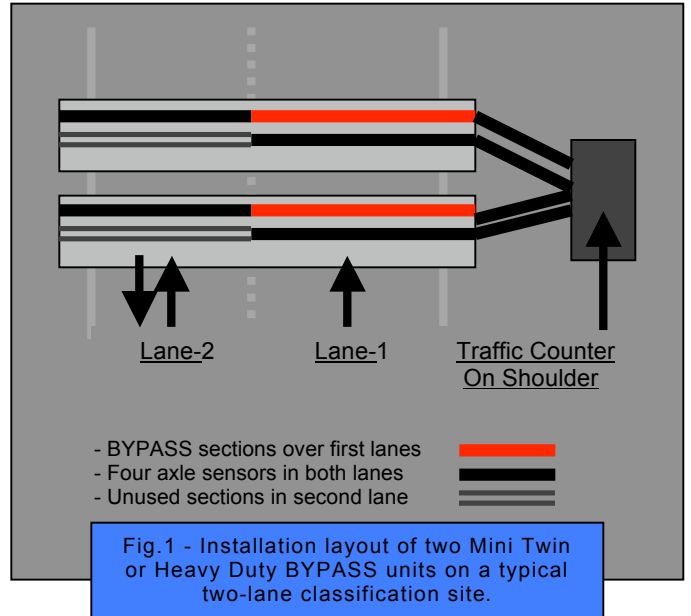
For two-lane classification sites - (Fig. 1) – install two 30ft. **BYPASS** Units across both lanes, with four equal lengths of mini tube between the four axle sensors and two 2-channel or one 4-channel traffic counter on the shoulder.

Each 30ft. **BYPASS** unit has two built-in mini tubes (0.187" i.d.) individually identified by a colored, barbed tube connector - (see Fig. 2)

- Left tube (black connector) is for lane-1 sensor, and includes :
 - Initial 15ft is the axle sensor for lane-1.
 - Final 15ft section is redundant and not used.
- Right tube (white tube connector) is for lane-2 and includes :
 - Initial 15ft **BYPASS** section with "incompressible" inner tube, allowing signals generated by traffic in lane-2 to cross-over lane-1 to the traffic counter on the shoulder.
 - Final 15ft section is the axle sensor for lane-2.

Installation Details

- Select the site. Measure and mark the precise distance the two **BYPASS** units will be installed apart.
 - **Black tube connectors are for lane-1 axle sensors.**
 - **White tube connectors are for lane-2 axle sensors.**
- Place center of each 30ft. **BYPASS** Unit on lane division line. Adjust "Figure 8" wire loops (Fig. 3) on both ends of each Unit to suit road and lane widths.
- Straighten the units across both lanes and secure the ends with PK nails driven through wire loops **so that slack is removed but the units are not stretched**.
- Use a minimum of 12 patches of mastic seal type tape (at least 4" x 8") to hold each unit firmly on pavement. Adequate taping is necessary to prevent movement of the units. Bouncing, rolling, sliding, and other unwanted movement will negatively impact data and may lead to damage of the units. Weather appropriate mastic type tapes, such as by Mar-Mac, Tapecoat, Frank W. Winnie & Son, or similar are the only recommended tapes.
- Use four equal lengths of mini tube to connect both pairs of axle sensors across the shoulder to the traffic counter.
- Adjust traffic counter settings for optimum performance – including - Traffic Direction, Sensor Spacing, Axle Spacing, Instrument Sensitivity, etc.
- Check all four axle sensors are working correctly, with the traffic counter accurately identifying and classifying each vehicle, in each lane.
- Inspect and maintain the site regularly during the study. If counts are over 72-hours, email or call for recommendations,



Please call for more information

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USA & other patents pending. All technical details in this publication are liable to change, without notice. 1005