RoadRAMP
Mini Twin BYPASS™ Units

Installation Instructions

Introduction

Install **Mini Twin BYPASS™** units using same materials and similar installation techniques for mini tube and regular road tube.

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

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

Each 30ft. **Mini Twin U**nit has two built-in mini tubes (0.187" i.d) and each tube is 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 **Mini Twin 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. **Mini Twin 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.
- Stretch both Units across both lanes and secure to pavement between PK nails driven through wire loops so units are taut.
- Use approx. 10 patches of tape (4" x 8") to hold each Unit firmly on pavement to prevent axle sensors "slapping" or "snaking" to maximize accuracy and reduce wear.
- Use four equal lengths of mini tube to connect both pairs of axle sensors across the shoulder to the traffic counter.
- Check distance between the two **Mini Twin BYPASS** Units. Input this data into traffic counter to set Sensor Spacing.
- 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 project.

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

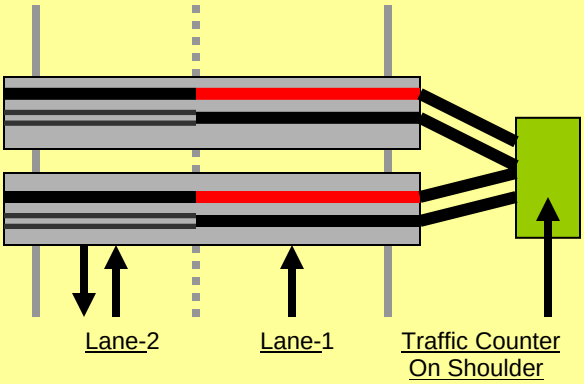

Fig.1 - Installation layout
Two Mini Twin BYPASS units
on typical two-lane classification site.

Fig.2.
- Black connector for lane-1
- White connector for lane-2

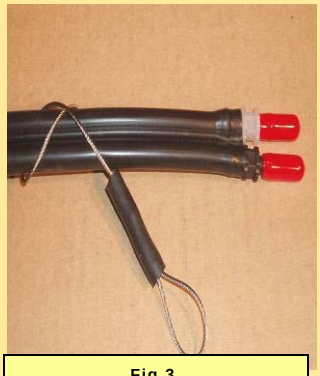

Fig.3.
Figure-8 wire loop
Adiustable to suit road width.

Fig.4.
Mini Twin BYPASS Units are for use on
2-lane City & County roads and 4-lane divided

RoadRAMP Systems

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