

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-205  
Relating to Exemptions Under Section 27156  
of the Vehicle Code

J. A. LANCE COMPANY, INC.  
FUEL CHARGER MODEL #'s XL100, XL200 AND XL400

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(e), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt add-on and modified parts from the prohibitions of Vehicle Code Section 27156.

WHEREAS, J. A. Lance Company, Inc. has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the Fuel Charger model #'s XL100, XL200 and XL400.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Division by Health and Safety Code Section 39516 and Executive Order G-45-5, the Air Resources Board finds:

1. The Fuel Charger is an add-on device attached to the fuel line in a motor vehicle.
2. The Fuel Charger is intended for use with a required motor vehicle pollution control system.
3. The Fuel Charger by being installed in the engine alters the original design of a motor vehicle pollution control system.
4. The Fuel Charger is a device subject to the prohibitions of Vehicle Code Section 27156 and an add-on part as defined by 13 CCR Section 1900(b)(1).
5. The Fuel Charger does not reduce the effectiveness of any required motor vehicle pollution control device.
6. The Air Resources Board, in the exercise of technical judgement, is aware of no basis on which the Fuel Charger will provide an increase in fuel economy.
7. It has not been determined what effect use of the Fuel Charger may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.
8. The Fuel Charger is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
9. The Air Resources Board by granting an exemption to J. A. Lance Company, Inc. for the Fuel Charger does not recommend or endorse in any way the Fuel Charger for emissions reduction, fuel economy, or any other purpose.

IT IS HEREBY RESOLVED that the Fuel Charger (model #'s XL100, XL200 and XL400) is exempt from the prohibitions of Vehicle Code Section 27156 for installation on 1990 and earlier model-year vehicles powered with gasoline or diesel internal combustion engines subject to the following conditions:

1. This exemption shall not apply to any device, apparatus, or mechanism advertised, offered for sale or sold with, or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.
2. No changes are permitted to the device as described in the application for exemption. Any changes to the device, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
3. Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device for an application other than those listed in the Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any component of the product as an individual device.
4. Any oral or written references to this Executive Order or its content by J. A. Lance Company, Inc., its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any fuel economy or emissions reduction claims for the Fuel Charger and is only a finding that the device is exempt from the prohibitions of Vehicle Code Section 27156.
5. No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 20<sup>th</sup> day of July, 1990.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

State of California  
AIR RESOURCES BOARD

EVALUATION OF J.A. LANCE COMPANY, INC.'S FUEL CHARGER FOR  
EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION 27156  
IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA ADMINISTRATIVE CODE

July 1990

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AIR RESOURCES BOARD

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CALIFORNIA ADMINISTRATIVE CODE

by

Mobile Source Division  
State of California  
Air Resources Board  
9528 Telstar Avenue  
El Monte, CA 91731

(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

## SUMMARY

J. A. Lance Company, Inc. of 22704 Ventura Blvd., #244, Woodland Hills, California 91364, has applied for exemption from the prohibitions in Section 27156 of the California Vehicle Code for their Fuel Charger model #'s XL100, XL200 and XL400. The Fuel Charger is designed for installation on the following applications:

XL100 : 1990 or Older Vehicles, Fuel Injected, Any Fuel Type

XL200 : 1990 or Older Model Year Vehicles, Fueled with Regular or  
Regular Unleaded Gasoline

XL400 : 1990 or Older Model Year Vehicles, Fueled with Premium Gasoline  
or Diesel Fuel

Previously, the Air Resources Board exempted three similar devices; "Polarion-X" by AZ Industries, Inc. , "Petro-Mizer MKI" by P and M Research and Development Laboratory, and "Fuel Energizer" by Magnetizer Group, Inc., with the same basic operating principles. Based on the engineering evaluation of the device and exemption of similar devices, the staff believes the Fuel Charger does not have any adverse effect on exhaust emissions. The staff recommends the Fuel Charger be exempted from the prohibitions in Vehicle Code Section 27156 and that Executive Order D-205 be issued.

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EVALUATION OF J. A. LANCE COMPANY, INC.'S FUEL CHARGER FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE CALIFORNIA ADMINISTRATIVE CODE

I. INTRODUCTION

J. A. Lance Company, Inc. of 22704 Ventura Blvd., #244, Woodland Hills, California 91364, has applied for exemption from the prohibitions in Section 27156 of the California Vehicle Code for their Fuel Charger model #'s XL100, XL200 and XL400. The Fuel Charger is designed for installation on the following applications:

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or Diesel Fuel

The applicant submitted specifications of the device for our evaluation.

II. CONCLUSIONS

Previously the Air Resources Board (ARB) exempted three similar devices: "Polarion-X" by AZ Industries, Inc., "Petro-Mizer MKI" by P and M Research and Development Laboratory, and "Fuel Energizer" by The Magnetizer Group, Inc. Based on the engineering evaluation of the device and prior exemptions issued to devices that operate in a manner similar to the Fuel Charger, the staff believes that the Fuel Charger will not have any adverse effects on the exhaust emissions from gasoline and diesel powered vehicles.

### III. RECOMMENDATION

The staff recommends L. A. Lance Company, Inc. be granted an exemption from the prohibitions in California Vehicle Code Section 27156 for its Fuel Charger and that Executive Order D-205 be issued.

### IV. DEVICE DESCRIPTION

The Fuel Charger is a magnetic device designed for installation on fuel lines. It consists of three models; XL100, XL200 and XL400. The device is designed to fit around the fuel lines and is held in place by two or three tie raps (depending on the model) and two cotter pins. The device is a rectangular shaped two piece non-toxic plastic block encasing four to eight magnets. The dimension of the magnets are 1-7/8" long, 7/8" wide by .390" thick. Appendix A contains engineering drawings of the device and Appendix B shows the installation instructions.

### V. DISCUSSION

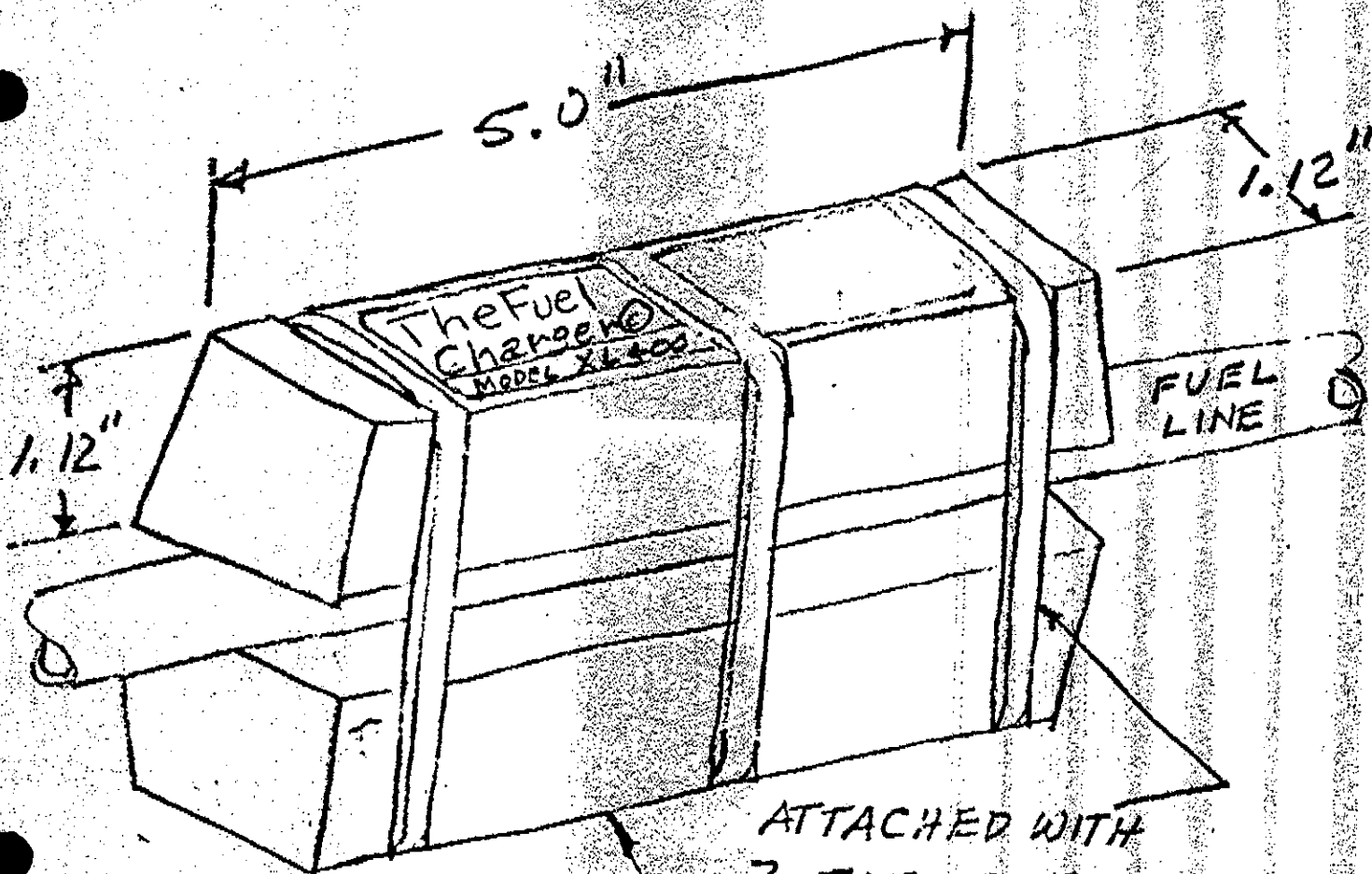
J. A. Lance Company, Inc. claims when the device is installed on a vehicle's fuel line, various magnetic fields from the device cause 95 percent of the fuel molecules to be matched with an oxygen molecule when introduced; thereby producing a near perfect combustion. This improves engine performance and horsepower, reduces dieseling and hesitation, and reduces the vehicle's required maintenance.



The ARB did not perform any emission or fuel economy tests to substantiate the claims made by the manufacturer. No adjustments such as timing, EGR, fuel metering or any other engine adjustments are included in the installation instructions. Previously, the ARB exempted three similar devices: "Polarion-X" by AZ Industries, Inc., "Petro-Mizer MKI" by P and M Research and Development Laboratory, and "Fuel Energizer" by The Magnetizer Group, Inc. The exemptions were granted based on back-to-back CVS-testing, fuel economy testing and engineering evaluation. Because of the previous exemptions issued to similar devices with the same operating principle and the fact that qualifying for an exemption is based on not adversely affecting exhaust emissions, the staff recommends that J.A. Lance Company, Inc. be granted an exemption as requested.

APPENDIX

APPENDIX A



LABEL ALSO LOCATED ON FAR SIDE

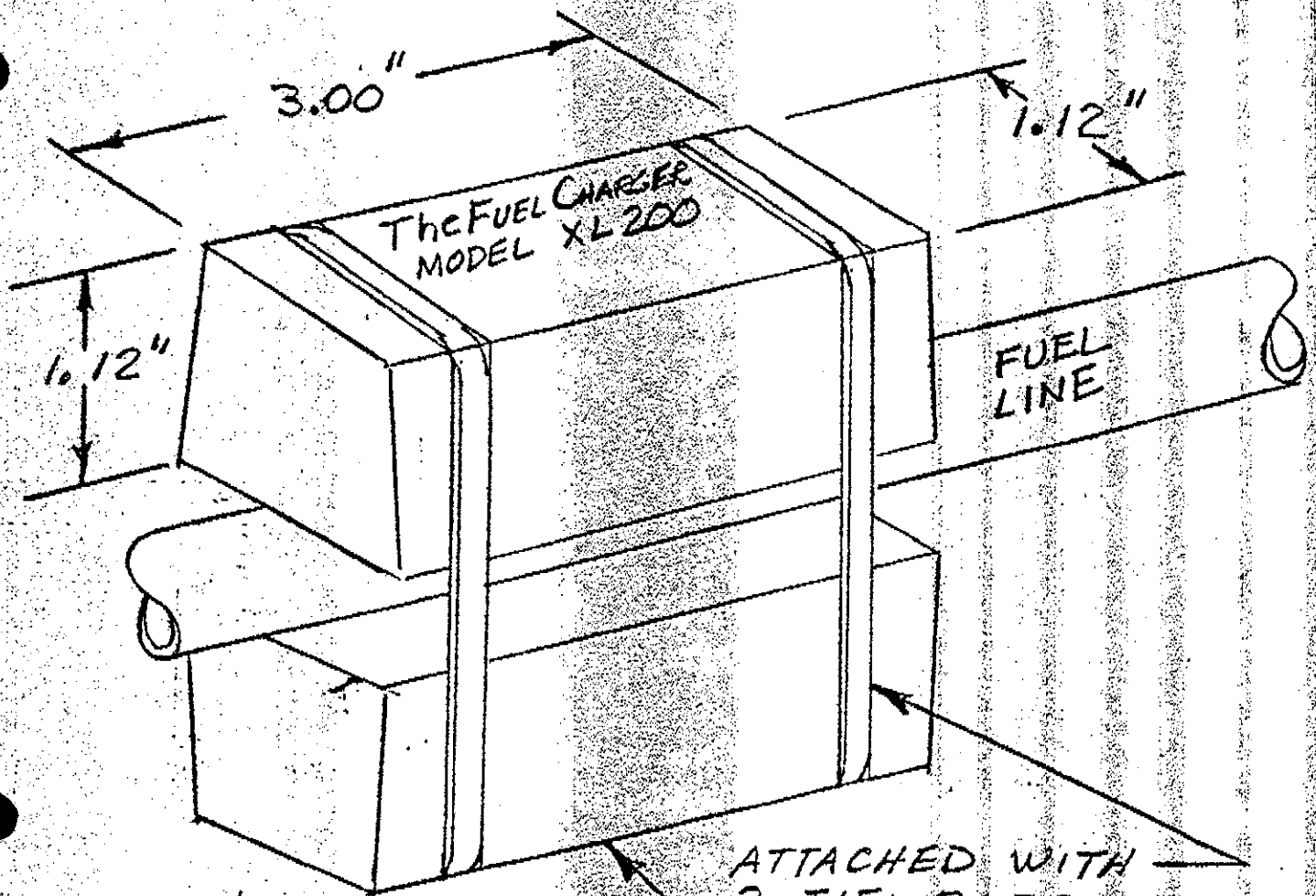
ATTACHED WITH 3 TIE RAPS NEAR CARBORATOR OR FUEL INJECTOR

### FIGURE A

SKETCH OF INSTALLATION FOR MODEL # XL400 USED FOR PASSENGER VEHICLES USING DIESEL FUEL OR PREMIUM UNLEADED GASOLINE

The Fuel Charger®	MFR: J A LANCE Co., INC WOODLAND HILLS, CA DIST: NOVENCO INTL CORP
MODEL SN.400	CARB E.O. NO. D-XX

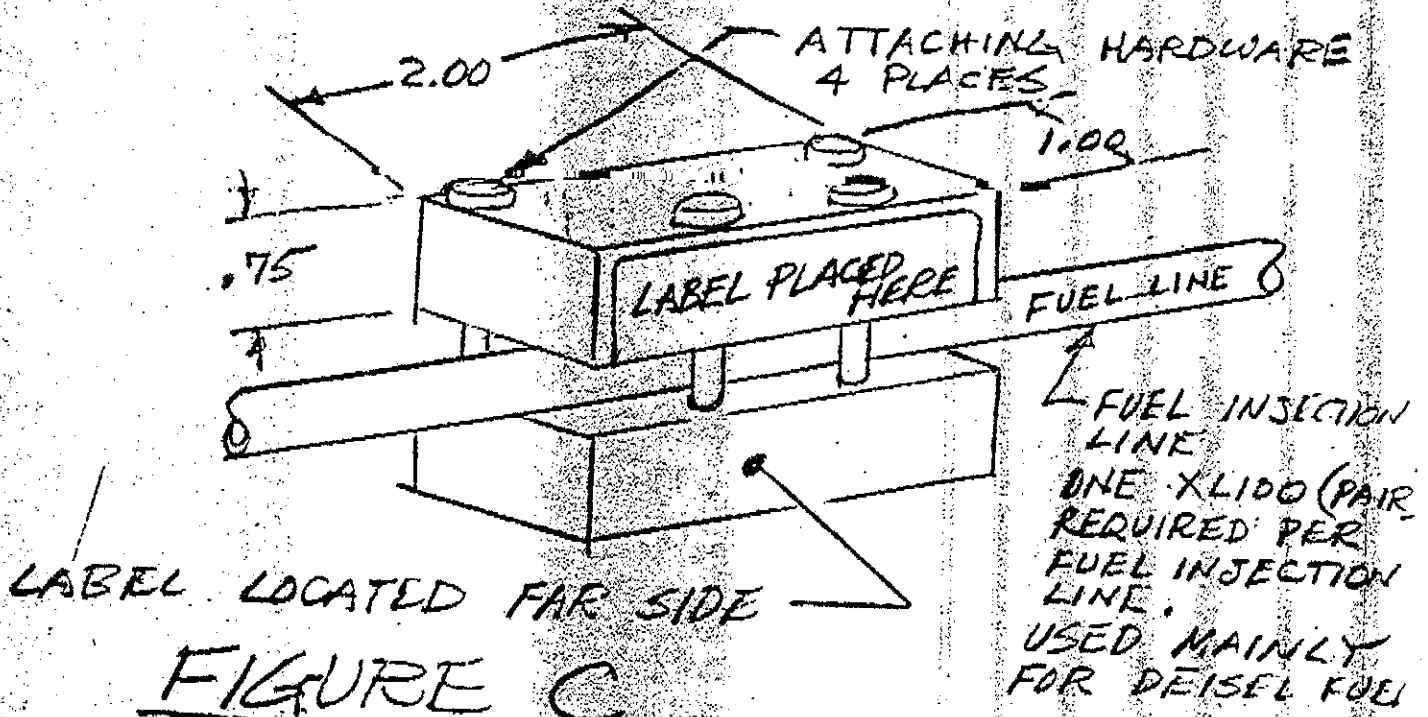
FACSIMILE OF LABEL



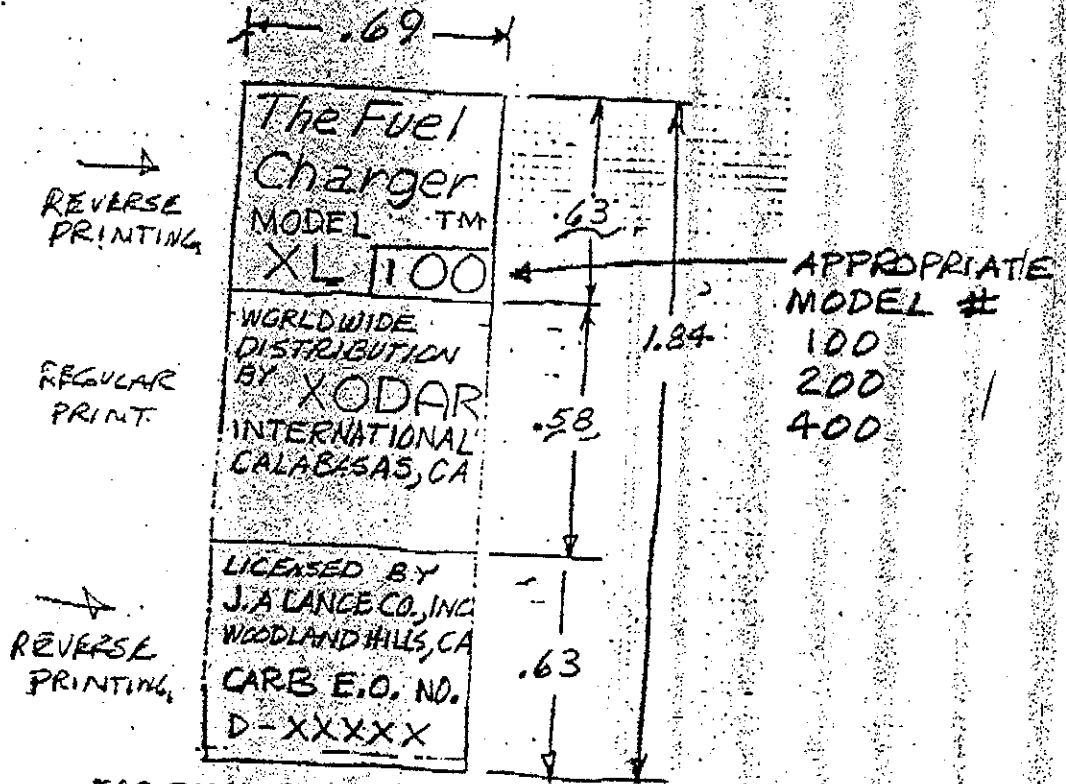
LABEL ALSO LOCATED ON THE FAR SIDE — ATTACHED WITH 2 TIE RAPS — NEAR CARBORATOR OR FUEL INJECTOR

### FIGURE B

INSTALLATION OF MODEL # XL 200 USED ON PASSENGER VEHICLES USING REGULAR OR REGULAR UNLEADED GASOLINE

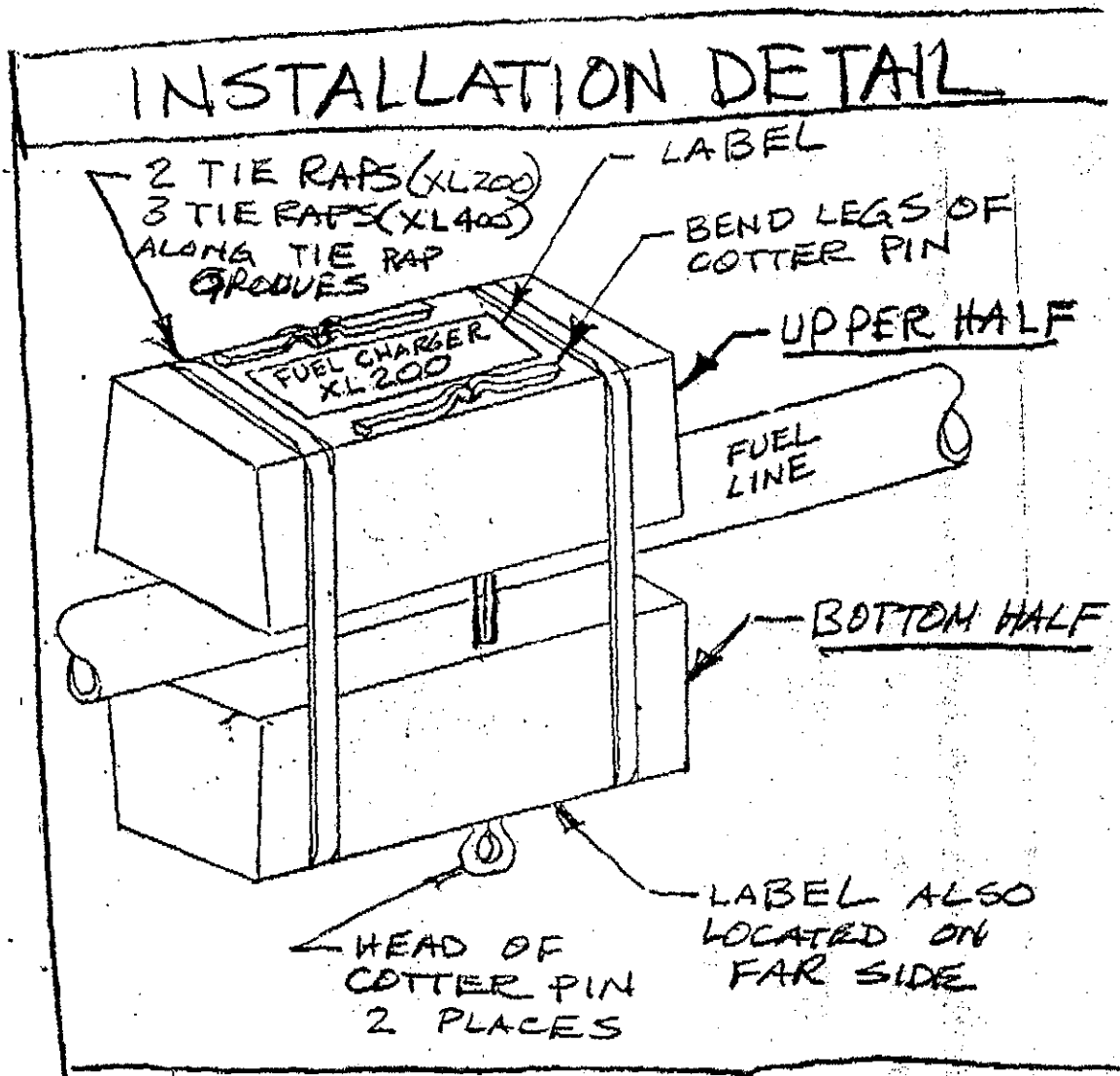


**FIGURE C**  
 FUEL CHARGER XL100  
 INSTALLED NEAR FUEL INJECTOR  
 USED MAINLY FOR DIESEL FUELS



FACSIMILE OF LABEL  
 SCALE: 2 TO 1

**APPENDIX B**



1. Determine where fuel line enters carburetor or fuel injector. Fuel line must be non-ferrous or non-magnetic, (i.e., rubber, BRASS, copper, or stainless steel). Check this simply by seeing if fuel line is attracted to it. If fuel line is magnetic, you MUST replace that portion of fuel line, preferably next to carburetor or fuel injector.

2. Select portion of fuel line nearest to carburetor or fuel injector that is straight for 3 inches (XL200) or 5 inches (XL400) and has appropriate clearance. Installation must be at least 6 inches away from exhaust manifold or exhaust pipe.

3. See figure. Take bottom half of fuel charger and insert two cotter pins through two holes, from label side. Place bottom half under your selected portion of fuel line.

4. Sandwich fuel line with upper half of fuel charger by inserting cotter pins through it as shown. Labels of both halves must be facing away from fuel line, to expose tie-wrap grooves.

5. Install tie-wraps supplied (2 for XL200, 3 for XL400) around both halves of fuel charger, along the tie-wrap grooves. Hand tighten each tie-wrap snugly. Then retighten cotter pins.