LC50 INITIAL ADJUSTMENTS:

THE MAIN ADJUSTMENT SCREW (MAS) SETTINGS ARE MEASURED FROM THE MAS VALVE BODY (NOT THE JAM NUT) TO THE EXTERIOR END OF THE MAS SCREW. THE ZERO-PRESSURE REGULATOR SETTINGS ARE MEASURED FROM THE TOP OF THE SPRING ADJUSTMENT SCREW TO THE TOP OF THE SPRING TOWER.

THESE INITIAL SETTINGS SHOULD GET THE GENSETS UP AND RUNNING FOR THE FINAL ADJUSTMENTS WITH AN OXYGEN SENSOR OR EXHAUST ANALYZER. THE MAS SHOULD BE ADJUSTED FIRST WITH SIGNIFICANT (75-95') LOAD ON THE ENGINE. THE ZPR SHOULD THEN BE ADUSTED AT NO-LOAD. ONE OR TWO MORE ITERATIONS AT FULL LOAD FOR THE MAS AND NO LOAD FOR THE ZPR SHOULD PROVIDE THE CORRECT AIR/FUEL RATIO OVER THE ENTIRE OPERATING RANGE.

FOR DUAL-FUEL CONFIGURATIONS, THE STANDARD NG FUEL SET UP SHOULD HAVE A TEE ADDED BETWEEN THE ZPR AND MAS. THE SIDE-LEG OF THE TEE SHOULD THEN HAVE THE MAS AND ZPR FOR THE LP FUEL. THE INITIAL SETTINGS FOR THE DUAL-FUEL NG AND LP ARE THE SAME AS THE SINGLE-FUEL SETTINGS BELOW. THE FINAL AIR/FUEL RATIO ADJUSTMENTS SHOULD BE DONE ON NG FIRST, THEN LP, USING THE PROCEDURE ABOVE FOR EACH FUEL.

**50MM LC50 (5.7 GM)**
NG: MAS (3/4") 19MM, ZPR (MAXITROL R600Z) (5/8) 16MM
LP (VAP): MAS (5/8") 16MM, ZPR (MAXITROL R500Z) (9/16) 14MM

**43MM LC50 (4.3 GM)**
NG: MAS (11/16") 17MM, ZPR (MAXITROL R600Z) (5/8) 16MM
LP (VAP): MAS (19/32") 15MM, ZPR (MAXITROL R500Z) (9/16) 14MM

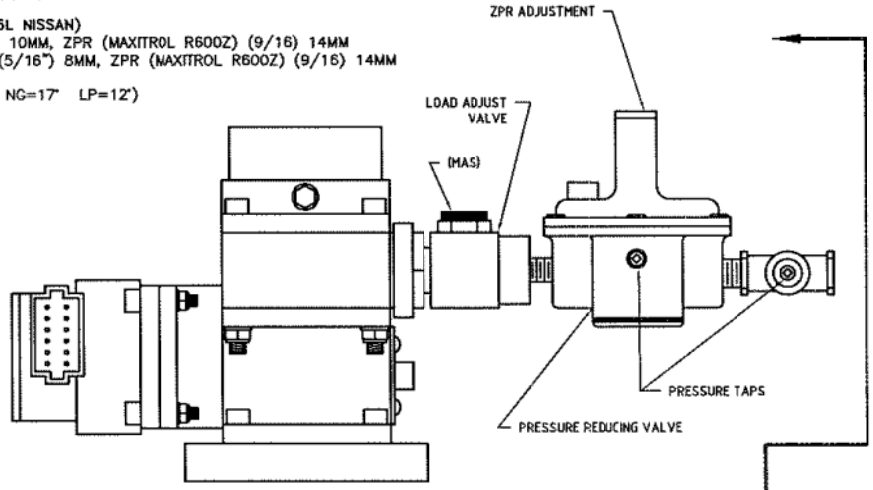
**36MM LC50 (3.0 GM)**
NG: MAS (7/16") 11MM, ZPR (MAXITROL R500Z) (5/8) 16MM
LP (VAP): MAS (3/8") 9.5MM, ZPR (MAXITROL R500Z) (9/16) 14MM

**36MM LC50 (2.5L NISSAN)**
NG: MAS (3/8") 10MM, ZPR (MAXITROL R600Z) (9/16) 14MM
LP (VAP): MAS (5/16") 8MM, ZPR (MAXITROL R600Z) (9/16) 14MM

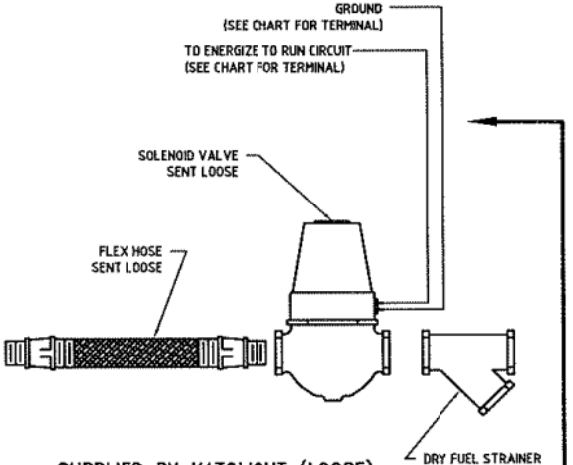
(NISSAN TIMING: NG=17° LP=12°)

| | ENERGIZE TO RUN | GROUND |
|---|---|---|
| CONTROL PANEL | + TERMINAL # | -TERMINAL |
| 40 & 50 SERIES | TERMINAL #2 | 9 |
| KDGC-2000/2001 | ✳ TERMINAL #2<br>TERMINAL #19 | ✳ 9<br>2 |
| KGM-250 | TERMINAL #2 | 9 |
| KDGC-500 | TERMINAL #2 | 9 |

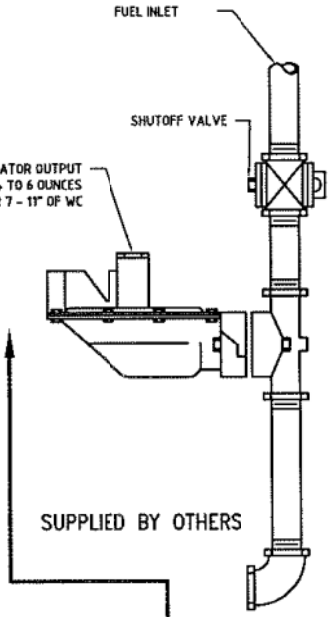
✳ SEE ELECTRICAL SCHEMATIC FOR PROPER TERMINALS NUMBERS USED FOR FUEL SOLENOID WIRING




SUPPLIED BY KATOLIGHT (MOUNTED)




SUPPLIED BY KATOLIGHT (LOOSE)




SUPPLIED BY OTHERS

NOTES:
1. TYPICAL PIPING LAYOUT WHEN LINE REGULATOR IS MOUNTED NOT MORE THAN TEN FEET FROM CARBURATOR
2. FOR LP VAPOR FUEL DO NOT REMOVE REGULATOR SPRING THE REGULATOR DOES NOT NEED TO BE TURNED DOWN

REVISIONS:
1. ADDED MM CONVERSIONS TO INCHES, 6-14-01 GMG
2. ADDED NISSAN ENGINE SETTINGS TO DRAWING, 1-19-04 MRL

FOR PGL GM ENGINES & NISSAN ENGINES ONLY

KATOLIGHT
MANKATO, MINNESOTA

GM & NISSAN ENGINES NG AND LP FUEL SYSTEM

| SIZE | DATE | DWG NO |
|---|---|---|
| B | 4-18-01 | 204-206-26-1 |

| SCALE | PART NO | DWN BY | SHEET |
|---|---|---|---|
| NONE | | SAA | 1 OF 1 |

**Chrysler 2.8**

| | | |
|---|---|---|
| **NG: MAS** (15/32) 12mm, | **ZPR** (15/32) 12mm | 26° |
| **LP: MAS** (13.32) 10mm, | **ZPR** (9/16) 14mm | 24° |
| **Dual Fuel** | | **25° (non issue)** |

**GM 2.5**

| | | |
|---|---|---|
| **NG: MAS** (3/8) 9.5mm, | **ZPR** (9/16) 14mm | 24° |
| **LP: MAS** (5/16) 8mm, | **ZPR** (9/16) 14mm | 18° |
| **Dual Fuel** | | **21°** |

**GM 3.0**

| | | |
|---|---|---|
| **NG: MAS** (7/16) 11mm | **ZPR** (5/8) 16mm | 36° |
| **LP: MAS** (3/8) 9.5mm | **ZPR** (9/19) 14mm | 26° |
| **Dual Fuel** | | **30°** |

**GM 4.3**

| | | |
|---|---|---|
| **NG: MAS** (11/16) 17mm | **ZPR** (5/8) 16mm | 36° |
| **LP: MAS** (19/32) 15mm | **ZPR** (9/16) 14mm | 26° |
| **Dual Fuel** | | **30°** |

**GM 5.0°**

| | | |
|---|---|---|
| **NG: MAS** (3/4) 19mm | **ZPR** (5/8) 16mm | 36° |
| **LP: MAS** (5/8) 16mm | **ZPR** (9/16) 14mm | 26° |
| **Dual Fuel** | | **30°** |

**GM 5.7**

| | | |
|---|---|---|
| **NG: MAS** (3/4) 19mm | **ZPR** (5/8) 16mm | 36° |
| **LP: MAS** (5/8) 16mm | **ZPR** (9/16) 14mm | 26° |
| **Dual Fuel** | | **30°** |

**Nissan H25**

| | | |
|---|---|---|
| **NG: MAS** (3/8) 9.5mm, | **ZPR** (9/16) 14.5mm | 12° |
| **LP: MAS** (5/16) 8mm, | **ZPR** (9/16) 14.5mm | 17° |
| **Dual Fuel** | | **15°** |

**MAS – LOAD ADJUST**
**ZPR – START ADJUST**