Typical Install Instructions

Read & understand all steps of these instructions before beginning this installation.

Kit is for off-road use, not for use on the highways, or in California.

REDLINE WEBER Kit K490 / K491

1982-1985 S10, S15, S10 BLAZER, S15 JIMMY, 2WD and 4WD: All 2SE Rochester

Using REDLINE Weber 38 DGES or 32/36 DGEV

These instructions are intended as a general guide for installation. Certain steps may vary slightly for different vehicles.

Jetting Specifications

Jetting specifications of carburetors supplied in kits may vary slightly, but will always be correct for the intended application.

Tools Needed

- Combination, box or open-end wrenches
- Socket set
- Screwdrivers (regular and Phillips)
- Pliers
- 6mm Allen Wrench
- Gasket Scraper, Knife
- Wiping rags, Cleaning solvent
- Gasket Sealer

Parts Supplied with Installation Kit

- Weber 38 DGES (K490) with Adapter (pre-installed)
- OR
- Weber 32/36 DGEV (K491) with Adapter (pre-installed)
- Hardware kit

TUNE - UP SPECIFICATIONS

All engine tune-up specifications for the REDLINE Weber Carburetor remains the same as those specified by the factory for the original unit. A suitable qualified dealer or independent garage, using infrared gas analyzing equipment, should carry out emission tune-up.

NOTE: Late model vehicles fitted with Emission Control Systems have many vacuum lines and electrical connections in their fuel systems. It is essential when dismantling, that disconnected lines be identified with a number tag or label system. Establish function of any device reconnected or disconnected.

RECOMMENDED ADDITIONAL PARTS

1. It is recommended to obtain a new fuel filter and install it when installing this kit.
2. Many late model vehicles use a high-pressure fuel system. The REDLINE WEBER only requires 3.5 lbs Maximum. For aggressive driving or off road use, we recommend a fuel pressure regulator adjusted to 2 to 2.5 lbs. for more stable fuel and float control.
Universal Disassembly

1. Disconnect battery.

2. Remove the gas cap.

3. Drain some water from the cooling system, (enough so the water level in the engine is below the intake system.) CAUTION: Hot water may be under pressure and dangerous.

4. Remove factory air filter assembly and all attaching hardware and hoses.

5. Use a tag and number system to identify hoses for reinstallation. Then, remove the factory vacuum lines from the carburetor.

<table>
<thead>
<tr>
<th>Hose #</th>
<th>Description / Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Small vacuum hose on front of carburetor. (1/4&quot;)</td>
</tr>
<tr>
<td>2</td>
<td>Large (PCV) hose on rear of carburetor. (3/8&quot;)</td>
</tr>
<tr>
<td>3</td>
<td>Small vacuum hose on rear of carburetor base. (5/32&quot;)</td>
</tr>
<tr>
<td>4</td>
<td>Large vacuum hose on rear of carburetor base. (1/4&quot;)</td>
</tr>
<tr>
<td>5</td>
<td>Large (bowl vent) hose on front of carburetor top.</td>
</tr>
<tr>
<td>6</td>
<td>Small vacuum hose from choke pull-off diaphragm on rear, passenger side of carburetor (5/32&quot;)</td>
</tr>
</tbody>
</table>

6. Disconnect the stock fuel line from the carburetor. Use two wrenches and be careful not to damage the fitting on the fuel line, it will be reused with the REDLINE Weber carburetor.

7. Plug the end of the fuel line to prevent leakage.

8. Disconnect the following cables and springs from the stock carburetor (if equipped).
   1. Throttle cable (save clip).
   2. Throttle return spring (save).
   3. Automatic transmission kick down cable.

9. Disconnect the following wire connectors from the stock carburetor (if equipped).
   A. Kick up solenoid, front passenger side of carburetor (1 wire connector, not used)
   B. Mixture control solenoid (2 wire connector, not used)
   C. Throttle position sensor (3 wire connector, not used)
   D. Choke thermostat, rear drivers side (1 wire connector, USEDO
   E. Fuel evaporation heater located on pigtail coming from carburetor base gasket (2 wire connector, not used)

10. Place all wires that are not used aside where they will not contact ground. Cover with electrical tape to prevent corrosion.

11. Remove the stock carburetor hold down nuts and lift the carburetor off the manifold. Save the nuts for use with the REDLINE Weber.

12. Remove the stock carburetor base gasket. Insert clean rags into the intake ports and thoroughly clean the carburetor-mounting surface.
Pre-Assembly:

Pre-Assembly steps 13 through 17 are easier to complete before installing the carburetor on the engine. Complete these steps BEFORE bolting the REDLINE Weber carburetor to the engine.

**NOTE:** Stock GM plastic vacuum connections are difficult to disconnect without first slicing the hose lengthwise at the connection.

13. Located on the intake manifold to the rear of the carburetor base flange is a ¼” vacuum hose fitting. Remove the hose from this fitting and make the following connections using the supplied parts.
   a. Install one of the 1 ¼” long, ¼” hose on the manifold fitting.
   b. Install the ¼” x ¼” x ¼” plastic vacuum Tee’s on this hose with one leg vertical and one leg pointed toward the driver fender.
   c. Install the other 1 ¼” long, ¼” hose on the vertical leg of the T.
   d. Install the large vacuum hose removed from the stock carburetor base (#4) on the leg pointed toward the driver’s fender.
   e. Install the ¼” x 5/32” x ¼” plastic Tee on the vertical leg with the ¼” leg vertical and the 5/32” toward the driver side fender.
   f. Install the ¼” hose originally removed from the manifold fitting on the vertical leg.
   g. Install the small vacuum hose removed from the carburetor base (#3) on the driver fender leg.

14. Remove the small vacuum hose, which originally connected to the stock choke pull-off diaphragm (#6) from the air cleaner connector. Plug this fitting with the supplied rubber cap.

15. Remove the short length of PCV hose (5/8”) originally connected to the rear of carburetor (#2) from the plastic “Y” connection. Install the supplied 5/16” x 6” hose on the plastic “Y” using the original hose clamp. Use of suitable lubrication will make this connection easier.

16. Remove plug from fuel line. Install the 5/16” x 5” hose, the fuel filter, and the 5/16” x 14” hose in that order on to the fitting. Be sure to install your new fuel filter with the “to carb” side towards the carburetors (14” hose) use the supplied hose clamps on all connections.

17. Remove the original large bowl vent hose (#5) from the hard line it is connected to. Replace it with the 3/8 x 12” hose using the original hose clamps.

18. Attach small vacuum hose originally connected to front of stock carburetor (#1) to the vacuum port on the front of the carburetor base.
Assembly:
19. Remove the rags from the intake manifold ports and install the supplied carburetor flange gasket.

20. Install the REDLINE Weber carburetor and adapter assembly on the intake manifold so that the linkage faces the passengers side fender.

21. Install the original carburetor hold down nuts and tighten them down in a criss-cross pattern. CAUTION: do not over tighten carburetor hold down nuts. Max torque should not exceed 7 Ft/Lbs.

22. Attach new PCV hose to fitting on the REDLINE Weber carburetor using new hose clamp.

23. Attach new bowl vent hose to fitting on the carburetor top which points towards the driver's headlamp using original hose clamp.

24. Attach small vacuum hose originally connected to front of stock carburetor (#1) to the vacuum port on the front of the carburetor base.

25. Connect the $5/16"$ fuel line to the carburetor fuel fitting which faces the firewall. Route this hose around the outside of the oil fill pipe.

26. Connect all cables and springs using original hardware.

27. Using the supplied extension wire, connect electric choke located on the front of the carburetor.

28. Reinstall the gas cap and reconnect the battery.

29. Start the engine and check for fuel and vacuum leaks. Use spray can of carburetor cleaner with hose attachment to isolate a leak, by spraying around carburetor mounting base, intake manifold and vacuum hoses. If any of the spray is entering the induction system, the idle speed will change. Note: Some leakage at the throttle shaft is expected. Correct as necessary before proceeding.

30. Adjust idle speed, fast idle speed and idle mixture if necessary (see page 5 for tuning details)

31. Place original air cleaner gasket on the air filter adapter and reinstall original air cleaner using original hardware.
32/36 Progressive Lean Best Idle Adjustment

Base line Settings
Speed Screw 1 to 1/2 turns in MAXIMUM
Mixture Screw 2 turns

Your settings with engine running
Speed Screw ______
Mixture Screw ______

It is important to verify all linkage and levers are installed without binding and the linkage opens to full throttle and closes to the Idle Speed Screw. The number one and two reasons for tuning errors are improper linkage installations and over tightened linkage nut, causing a binding in the linkage assembly.

All settings are done with engine warmed up so that the choke is fully opened and disengaged.

1. Back out the Idle Speed Screw until it does not touch the throttle lever. Cycle or Snap the linkage again to be sure that the linkage and lever comes to complete close. (Checking for linkage bind) Turn in the idle speed screw until it contacts the throttle lever, and then continue to turn the idle speed screw in 1 1/2-turn maximum.

2. Set the Idle Mixture Screw by turning it in until it lightly seats. Then back out the mixture screw 2 full turns out. DO NOT FORCE THE MIXTURE SCREW, AS THIS WILL CAUSE DAMAGE TO THE SCREW AND ITS SEAT IN THE BODY OF CARBURETOR.

3. * With the engine at operating temperature, choke fully open and engine running, turn in the mixture screw until the engine starts to run worse, then back out the screw (recommend 1/4 turn at a time) until the engine picks up speed and/or begins to smooth out. Back out 1/4 turn more, or until the screw does nothing or runs worse then turn back to the point where it ran its best. We are looking for the Lean Best Idle or the "sweet spot".

4. Recheck timing and vacuum hook ups. Then, recheck mixture screws to lean best idle again. If all is still the sweet, best and smoothest idle then confirm and note the final settings.

5. If the mixture screw is out more than 2 1/4 turns, then the idle jet is too lean (too small). If the mixture screw is out 1 3/4 of a turn or less, then the idle jet is too rich (too large).

These assumptions are based on the fact that the Idle Speed Screw is not more than 1 1/2 turns in. If the Idle Speed Screw has to be opened more than 1 1/2 turns then this is also an indication of a lean condition usually requiring jet change. "At times" it may appear to be showing signs of richness or flooding this could also be the float level is too high, 17mm from gasket surface to the tip of the float, and, check the fuel pressure, MAX. 3.5 PSI, USE a pressure regulator!
CARBURETOR SET UP AND LEAN BEST IDLE ADJUSTMENT

Base line Settings
Speed Screw 1/2 turn in MAXIMUM
Mixture Screws 1 turn out
Final Settings Engine Running
Mixture ______
Speed ______

It is important to verify all linkage and levers are installed without binding and the linkage opens to full throttle and closes to the Idle Speed Screw. The number one and two reasons for tuning errors are improper linkage installations and over tightened linkage nut, causing a binding in linkage assembly.

CALIBRATIONS MAY VARY DUE TO REGIONAL FUELS AND STATE OF ENGINE TUNE AND PERFORMANCE. POOR RUNNING DOES NOT ALWAYS MEAN A BAD OR POORLY ADJUSTED CARBURETOR. AN ADVANTAGE OF THE WEBER CARBURETOR IS ITS EASE OF ADJUSTMENT AND TUNING.

SET UP ADJUSTMENTS
1. Start set up by confirming carb base line settings. Do not depend on the existing settings.
2. All settings are done with choke disengaged and warmed up so that the choke is fully opened and disengaged. This is done on automatic choke carburetors by first opening the choke butterfly by hand and inserting a wood block or wedge of some kind to hold open while the linkage is cycled (linkage operated through its full movement) to clear the choke cam. (You will hear a metallic click as the choke cam is released. You can check the choke fast Idle screw under the choke assembly to confirm that it is not in contact with the choke fast idle cam.)
3. Set the Idle Speed Screw by backing out the Idle Speed Screw until it is not in contact with the throttle stop lever. Cycle or Snap the linkage again to be sure that the linkage comes to close without any assistance. (Checking for linkage bind) Now bring screw back into contact with the lever and continue to open or screwing in, no more than 1/2 turn in, maximum.
4. Set the mixture screws by turning each screw in until it lightly seats. DO NOT FORCE OR BIND AS THIS WILL CAUSE DAMAGE TO THE SCREW AND IT’S SEAT IN THE BODY OF CARBURETOR. Back out the screw 1 full turn.

TUNING:
1. BE SURE TO FOLLOW THE NEXT INSTRUCTIONS IN THE PROPER SEQUENCE, DEVIATION WILL CAUSE THE CARBURETOR TO NOT FUNCTION TO ITS IDEAL SPECIFICATIONS AND MAY NOT PROVIDE THE PERFORMANCE AND FUEL ECONOMY AS DESIGNED.
2. Start the engine, the engine will run very slowly more like a tractor. As long as the engine stays running the idle speed is not important at this point.
3. The first thing is to set the idle mixture screw to lean best idle setting, do not set “up” the idle speed. First, turn in the mixture screw until the engine dies or runs worse, then back out the screw (recommend turning ¼ at a time). The engine should pick up speed and begin to smooth out. Back
out 1/4 turn more, or until the screw does nothing or runs worse then turn back to the point where it ran its best.

4. Use your ear, not a scope or tuning instruments at this point. You want to tune the engine by sound. Adjust to best, fastest and smoothest running point.

5. Now that the mixture screw is at its best running location, you can adjust the idle speed the screw. The idle speed screw will be sensitive and should only take ¼ turn to achieve the idle speed you like.

6. Check and set idle to your driving preference. Put the car in gear and apply slight load, (AC on) and set the Idle as you like it. Don’t set it too high, (more than ¼ turn in is TOO much) as this will cause causes excessive clutch and brake wear. The Idle only needs to be 650 to 800 RPM with light load or AC on.

7. Recheck timing and vacuum hook ups. Recheck mixture screw to lean best idle again. If all is still best and smoothest idle then confirm and note the final settings.

8. To confirm settings with the engine running. Start by screwing in the mixture screw and count the number of turns it takes to bottom out and note if the engine dies. If Idle Mixture screws are with in ½ turn of base line setting then all is well. Also check the speed screw and note how many total turns from initial contact. You may have opened (turned in) the speed screw. Your final setting should be under ¾ turn in. Reset the screws (back in) to the best final settings (Per your notes) and go on a test drive. If the settings are other than described then you may want to recalibrate the Idle circuit (low speed circuit) to your engines needs. This is done by following the rule of thumb BELOW.

Simple Rules for low speed calibration
If the mixture screw is more than 1 1/2 turns out turns then the idle jet is too lean (too small). When the mixture screw is ¼ turn or less, then the idle jet is too rich (too large). These assumptions are based on the fact that the speed screw setting is not opened more than 1/2 turn in. If the speed screw has to be opened 1/2 or more turns then this is also an indication of a lean condition usually requiring greater change. At times it may appear to be showing signs of richness or flooding it is really a lean condition. Please understand the need to keep throttle plate as near to closed as possible so as not to prematurely expose the transition holes. This is what causes the visible rich condition, and confirms the need to increase the jet size. JET KITS are available if needed.

EXAMPLE : With the idle speed screw set at no more than 1/2 turn in after contact with the stop lever; and the best idle occurring with the idle mixture screw set at 1 1/2 turns from lightly seating, indicates the need for a larger idle jet. Achieving the best idle at less than 1/2 turn indicates the need for a smaller idle jet.

TECH SUPPORT
We offer free technical support service for the first 90 days after your purchase of this conversion kit. Provide us with, the kit part number and the production code on the label on the outside of the box.

Additional assistance for special performance tuning AND non-warranty service is available for a fee, based on each problem resolution and the service charge will be confirmed at the time of the call, if applicable.

All Warranty and technical assistance is provided through the manufacture, REDLINE. No part will be credited or exchanged through the retailer.

ALL technical support and warranty issues will be handled through the manufacture REDLINE / WEBER @ 1-800-733-2277 ext 7457.
WEBER Carburetors are smart. Unlike any other in the world. A WEBER can be fine tuned to perform almost any way you want. Try tuning a WEBER like other carburetors—it generally won't react the way you expect. So in order to gain the most performance, power and overall efficiency—understanding the difference is vital.

55 MPH CRUISE AT IDLE!
WEBERs are really two carburetors in one. Each independently covers their part of the operating range. Even though the first is naturally called the "IDLE CIRCUIT"—in a WEBER it is actually the LOW SPEED CIRCUIT and controls a very broad range of performance. It's also the most important difference. Other carburetors are designed to rush into the high speed circuit, WEBER thinks this approach wastes fuel and is less manageable. WEBERs are designed to efficiently operate in the LOW SPEED CIRCUIT until the engine really needs high volumes of fuel. It is this precise management of fuel and air, at critical RPMs, that promotes the exceptional throttle response and fuel economy associated with a properly tuned WEBER carburetor.

WHEN IS A MIXTURE SCREW NOT A MIXTURE SCREW?
Until they're WEBER-WISE most mechanics will swear our IDLE VOLUME ADJUSTING SCREW is the same as the familiar air bleed/mixture screw found on other types of carburetors. It's a natural misunderstanding. They almost look the same. Our IDLE SPEED FUEL JET is also mistaken for a simple air bleed. It is in fact the heart of the WEBER LOW SPEED CIRCUIT—a changeable mini jet, air bleed and emulsion tube that precisely premixes fuel and air. The IDLE VOLUME SCREW actually distributes the premixed fuel/air mixture to the engine. Other carburetors rely totally on coarse threaded adjuster screws that open the butterflies to control idle speed and mixture. Only the tapered edge of the WEBER IDLE VOLUME SCREW gives your customers vintner-like management of complete mixture and engine speed.

TRANSITION: SLOTS AND BIG HOLES—GREAT PERFORMANCE DO NOT MAKE!
Instead of a slot or indiscriminately placed progression holes, WEBER chooses closely defined TRANSITION PORTS positioned in the lower part of the throttle bore to ensure smooth engine operation during throttle opening stages. Most manufacturers that mass-produce carburetors today use slots or several large holes because they can be easily cast into the carburetor. It seems they are willing to let your customers pay the price of reduced performance for their convenience. We're not. Our TRANSITION PORTS are precisely located and individually positioned in a fully machined bore. Port location is critical. The ports must correspond to the exact position of throttle plate's beveled edge. There is absolutely no room for sloppy manufacturing of the WEBER carburetor. The construction process often requires extra steps—but we believe the results are incredibly important to those that demand uncompromised performance.

WEBERS ARE FOR WINNERS!
You can bet WEBER-WISE Champions like "Mike Gillman, Ivan Stewart and the TOYOTA RACING TEAM" understand and rely on the WEBER attention to detail and subtlety of design. WEBER...the overwhelming performance choice of winning racing teams—worldwide!
This guide is intended for diagnostic purpose only. Specific procedures and adjustments should be obtained from factory service manuals or the carburetor specification sheet.

Every REDLINE Weber carburetor is thoroughly tested at the factory and meets high quality and performance standards.

Since other engine components problems affect the performance of the carburetor it is strongly recommended to perform the general engine checks of this guide BEFORE making any carburetor adjustments.

### GENERAL ENGINE CHECKS

#### IGNITION SYSTEM
1. Cracked, broken wires
2. Incorrect ignition wire location (firing order)
3. Timing improperly adjusted
4. Distributor cap cracked, arcing
5. Low coil output
6. Corroded plug terminals
7. Incorrect vacuum advance hose connection
8. Points corroded, wrong gap
9. Incorrect spark gap

#### EMISSION SYSTEM
1. Cracked, loose vacuum hoses
2. Improper vacuum hose connections
3. Faulty EGR valve operation
4. Air pump diverter valve anti-backfire valve faulty
5. Faulty PCV valve operation
6. Dirty breather filters (Charcoal canister, Valve cover breather, PCV filter inside air filter assembly)
7. Faulty feedback system operation
8. Vacuum delay valves (switches) faulty

#### FUEL SUPPLY SYSTEM
1. Dirty fuel filter
2. Incorrect fuel pump pressure (1.5 – 3.5)
3. Restricted, kinked fuel lines
4. Fuel lines in contact with hot surface
5. Contaminated fuel

#### SPARK PLUG ANALYSIS
Normal spark plug condition is a sandy brown deposit on the insulator surface with no signs of electrode damage. The following conditions will help you analyze your plugs condition.

- **OIL DEPOSITES – WET FOULING**
  1. Worn piston rings, bearings, seals
  2. Excessive cylinder wear
  3. Leaking- damaged head gasket

- **BLACK CARBON BUILD-UP, DRY FOULING**
  1. Fuel mixture to rich
  2. Dirty air filter
  3. Engine over heating
  4. Defective ignition wires
  5. Sticking valves, worn seals
  6. High carburetor float level
  7. Damaged, sticking needle and seat assembly
  8. Incorrect fuel pump pressure (1.5 - 3.5)
  9. Spark plug heat range to cold

- **BLISTERED, BURNED ELECTRODES**
  1. Spark plug range to hot
  2. Timing improperly adjusted
  3. Engine overheating
  4. Incorrect spark plug gap
  5. Burned engine valves
  6. Wrong type of fuel

- **INSULATORS CHIPPED**
  1. Incorrect spark plug gap
  2. Improper spark plug installation
  3. Severe detonation

- **PLUG GAP BRIDGED**
  1. Lead deposits fused to electrode
  2. Engine overheating
  3. Spark plug heat range to hot

- **GASOLINE FOULING**
  1. Distributor cap cracked, arcing
  2. Loose, broken ignition wires
  3. Low coil output
Carburetor troubleshooting guide

This is a guide for diagnostic purposes only

ENGINE WILL NOT START
Over 90% of engine failure to start conditions are ignition system related
1. Open circuit between starter and solenoid, or between ignition switch and solenoid
2. Starter motor faulty
3. Battery charge to low

ENGINE HARD TO START WHEN COLD STARTS & STALLS
1. Incorrect choke operation (worn coil, electrical connection faulty)
2. Fast idle speed to low
3. Improper choke pull off operation
4. Low carburetor float level
5. Timing improperly adjusted
6. Damaged sticking needle and seat
7. Engine flooded

ROUGH IDLE, SURGING, MISSING, STALLING
1. Incorrect idle speed and idle mixture adjustment
2. Timing improperly adjusted
3. Vacuum leak
4. Incorrect vacuum advance hose connection
5. Faulty EGR valve operation
6. Faulty PCV valve operation
7. Incorrect choke operation (coil settings)
8. Improper choke pull off diaphragm operation
9. Improper vacuum hose connection
10. Low carburetor float level
11. Restricted, kinked fuel lines
12. Restricted fuel filter
13. Distributor cap cracked, arcing
14. Loose, corroded, or broken ignition wires
15. Damaged idle mixture adjusting screw
16. Distributor shaft worn
17. Faulty idle solenoid operation
18. Restricted carburetor jets or air bleeds
19. Restricted air, breather filters
20. Incorrect spark plug gap

ENGINE KNOCKS, PINGING
1. Timing improperly adjusted
2. Incorrect vacuum hose connections
3. Distributor malfunctions
4. Carburetor jets to lean, restricted
5. Low carburetor float level
6. Poor quality fuel
7. Faulty EGR valve operation
8. Faulty feedback system operation
9. PCV system malfunction
10. Loose fan belts
11. Faulty vacuum delay valve (switch)

DIESELING, ENGINE RUN ON
1. Faulty idle solenoid operation
2. Carburetor linkage binding
3. Incorrect idle speed and idle mixture adjustment
4. Timing improperly adjusted

HESITATION, POOR ACCELERATION, FLAT SPOT
1. Vacuum leaks
2. Improper vacuum hose connections
3. Timing improperly adjusted
4. Low carburetor float level
5. Loose, corroded or broken ignition wires
6. Low ignition coil output
7. Fouled or damaged spark plugs
8. Incorrect accelerator pump operation
9. Incorrect fuel pump pressure (1.5 – 3.5)
10. Restricted or kinked fuel lines
11. Restricted fuel filter
12. Carburetor power enrichment system malfunction

POOR LOW SPEED OPERATION
1. Indirect idle speed and idle mixture adjustment
2. Dirty air filter
3. Timing improperly adjusted
4. Loose, corroded, or broken ignition wires
5. Distributor cap cracked or arcing
6. Restricted idle jets or air bleeds
7. Incorrect carburetor float level

POOR HIGH SPEED OPERATION
1. Incorrect vacuum advance hose connection
2. Incorrect distributor centrifugal advance
3. Incorrect spark plug gap
4. Incorrect carburetor main jets, air correctors
5. Incorrect vacuum hose connections
6. Dirty air, or breather filters
7. Incorrect fuel pump pressure (1.5 – 3.5)
8. Worn distributor shaft
9. Incorrect carburetor float valve
10. Incorrect carburetor float level
11. Restricted or kinked fuel lines
12. Restricted fuel filter
Typical REDLINE WEBER kit

The parts will vary from kit to kit. Shown below is a typical installation kit with two piece adapter. Also included are fuel hose, chrome air filter and all mounting hardware. Not shown are general installation instructions and tuning information.

Accessories:
Performance / Altitude Jet kit for 4 cyl. and 6 cyl. engines.
701-DGV4 4cyl, 701-DGV6 6cyl DGEV.
701DGS, 38DGES Outlaw

Filters:
2 5/8” chrome filter: 99217.332S
Element only: 99400.292
Filter clips (4each): 99217.000S

Universal Air Filter Adapter: 99010.457

To mount traditional high performance filter

Remote Air Filter Snorkel Kit: 99010.357

This kit allows you to move the air filter to a remote location or above the water line for the tough river forge or just to get the filter out of the dust and mud Zone into the passenger compartment or up on the roll bar.
Making The Right Choice
32/36 mm progressive or 38 mm Synchronous
Facts and Information

In the past there have been questions and much miss information put out on the choice of a 32/66 DGEV carb or the 38 DGAS.

To help make the right choice for your future needs.

1) The Kits utilizing the 32/36 Progressives Weber are designed to provide the aftermarket with an economical performance carburetor conversion that while increasing HP also improves drivability and fuel economy over the original stock carburetor. REDLINE kit’s using the 32/36 progressive carburetor is the optimum carburetor for use as a performance replacement carburetor for a worn out or hard to maintain factory carb.

2) When purchased in kit form the Redline Weber 38mm DGAS carburetor will perform very well on a stock unmodified engine. This is not an over carbureted situation. The REDLINE kit will provide considerably more initial torque and acceleration. The top end performance will not be significantly improved over the 32/36 when used on a stock engine.

3) The 38mm DGAS carburetor should be the only consideration if the engine has been modified, or, in the future will have any level of additional engine modifications. Such as headers, free flowing exhaust, a cam, or rebuilt engine. Usually these rebuilt engines will be improved over the stock engines with oversize pistons and towing cam. The REDLINE 38 DGES will enhance the your engine improvements/modifications. The 6 cylinder engine applications are particularly enhanced by this application. In-fact, ALL JEEP and LANDCRUSER applications with any upgrades this is a mandatory choice in carburetors.

4) When using a 32/36 DGEV with the same above modifications will require additional calibration and re-jetting to attain the limited performance improvements. There is a jet kit available for just this reason. The re-jetting is required due to the performance enhancements of the additional items usually requiring more fuel. Although the 32/36 DGEV does out perform the original, to receive the full benefit of your modifications will require helpful re-calibration. The 38 DGES on the other hand is the optimum choice and has a larger fuel delivery system and the calibration to handle the broader range of improved performance and will substantially improve your other product investments.

5) While the 32/36 DGEV progressive carb should improve your fuel economy and performance on a stock engine compared to the OEM carb. The 38 DGES Synchronous carb will not get less fuel economy than the OEM carb and will improve initial torque and acceleration.
RECAP:

The 32/36 DGEV progressive carburetor as used in any Redline Weber kit is pre-calibrated and set to run on most normal standard and stock engines and provide some performance and fuel economy improvements. If that engine has been upgraded or improved with other performance items there will be a need to recalibrate and re-jet the carburetor in most situations. There is a performance jet kit for the 32/36 DGEV applications Pt No. 701-DGV4 or 701-DGV6.

The REDLINE Weber kit with the 38 DGAS synchronous carburetor is also pre-calibrated for use on stock and modified engines and is not over carbureted. It also provides the best starting point for engines that are ultimately going to be upgraded with additional performance items with performance over fuel economy being the ultimate goal. For re-jetting the 38 DGES use jet kit 701DGS.

<table>
<thead>
<tr>
<th>Progressive Series carburetor</th>
<th>Synchronous Series carburetor</th>
</tr>
</thead>
<tbody>
<tr>
<td>22680.005 Manual choke</td>
<td>18930.032 Water choke</td>
</tr>
<tr>
<td>22680.051B Water choke</td>
<td>18930.020 Electric choke</td>
</tr>
<tr>
<td>22680.033B Electric choke</td>
<td></td>
</tr>
</tbody>
</table>