



MLX-3004

3 3/8" SPEEDOMETER/TACHOMETER

Direct plug-in instrument for 2004-2013 Harley Davidson Dyna (fuel injected) and Sportster and 2008-2010 Rocker

Included parts:





IMPORTANT NOTE!

This gauge has an odometer preset option that is only available for the first 100 miles (160km) of operation. See "preset odometer" on page 7 for instructions.

Installation

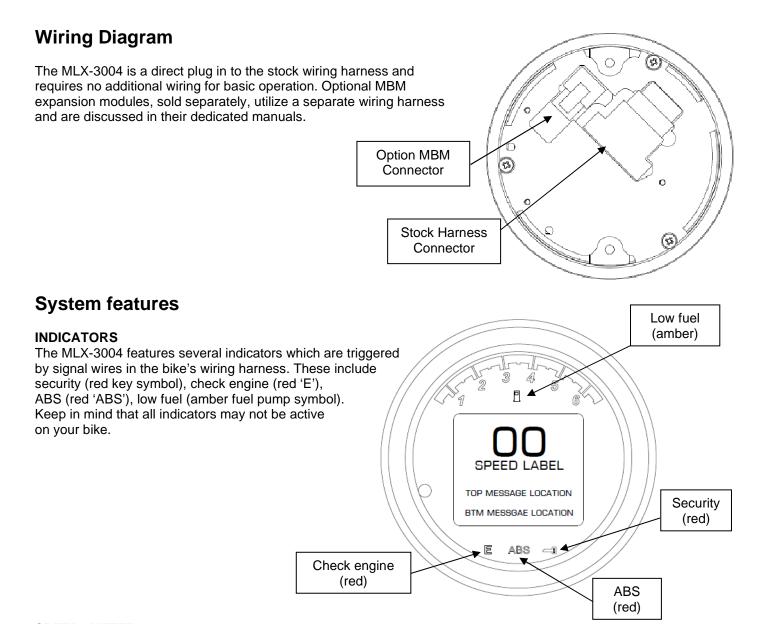
The MLX-3004 is a direct-fit replacement and uses the original housing, gaskets and screws.

- 1. On tank-mount models, begin by removing the dash. All models: remove the two screws on the back of the gauge housing, then unplug the factory gauge, noting the position of the rubber gaskets; one on the front between the gauge bezel and housing and (on handlebar-mount applications) one on the back between the housing and the back plate.
- 2. Transfer the original gaskets to the MLX-3004 then connect the large factory connector. Also connect the optional MBM harness if readings for compass, boost or air pressure are desired. Route the MBM harness under the seat.
- 3. Secure the new gauge using the original screws.









SPEEDOMETER

The speedometer is read from the engine control module (ECM) data bus and can be calibrated to allow for changes in tire size or gearing. The main speedometer reading ranges from 0-250MPH/400km/H

TACHOMETER

The tachometer is read from the ECM data bus.

The tachometer displays RPM x1000 with a range of 500-6500 RPM. The RPM can also optionally be shown on the message display which displays 0-9999 RPM.

LOW VOLTAGE WARNING

When the voltage drops below the warning limit with the engine running, "VOLTS LOW" and your current voltage will be displayed (default warning limit is 11.0V).

LOCATIONS

There are two message locations available to display additional information under the speedometer. They are labeled Top and Bottom Message Location, respectively. You can program what you want in each location as well as turn readings off. Each location can have multiple readings assigned to it; simply tap the function switch to scroll to the next reading in that location. See function switch operation and information readings on page 3.

Message center readings

Information readings	Description
ODOMETER	Odometer reading (0-999,999)
TRIP A	Trip A odometer reading (0-9999.9)
TRIP B	Trip B odometer reading (0-9999.9)
SERVICE (when enabled)	Distance to next service (0-7500.0 or "SERVICE DUE")
TRIP HR	Hours gauge has been on with engine running HH:MM (00:00 to 99:59)
SPEED km/h	Alternate speed unit conversion
RPM	Digital RPM reading
VOLTS	System voltage
DISTANCE TO E MI / km (when enabled)	Distance to empty
HEAD TEMP	Head temperature from ECM if supported
GEAR/CLOCK	Gear position and 12 hour clock display
Performance readings	
HIGH MPH	High speed recall
0-60 TIME	0-60 mph time in seconds
QUARTER MILE speed/time	Speed at end of ¼ mile (trap speed) and ¼ mile time from standing start
HIGH RPM	High RPM recall
MBM (Motorcycle Bus interface Module)	
MBM displays (optional)	Readings for connected modules will be added automatically

Programming, clock set, service reset

FUNCTION SWITCH

The factory trip reset switch on the top of the left handlebar is used as the main function switch. During normal operation, the function switch allows access to information including mileage, RPM, and performance data located within four message locations on the Speed/Tach gauge. The message locations have arrows indicating which message location is currently selected, or in focus. Tap the function switch to scroll through information available in each location.

If you would like to change focus to another location, press and hold the function switch; you'll see a status bar labeled "MOVE LINE" filling. Once the status bar is filled, "RELEASE TO MOVE" will be displayed below; if the data in the selected location can be reset, such as a tripmeter, the bar will be emptying with "HOLD TO CLEAR" displayed above. Release the switch before the bar empties and the next line of information will be in focus, illustrated by arrows on each side. Focus alternates top and bottom.

To clear or reset information such as Trip A, Trip B or performance readings, press and hold the function switch until you see the status bar filling. Continue to hold the switch as the bar empties and then displays "HOLD TO CLEAR". Hold until you see "RELEASE" displayed above the status bar. The information will now be reset.

If the function switch is pressed while the key is in the off position, the clock and odometer will be displayed.

SETTING THE CLOCK

The clock uses a 12 hour format and can be set by holding the function switch while the focus arrow is next to the clock. If the clock is not shown, tap the function switch until it appears. Keep in mind you may need to move to another message location.

Hold the switch until "RELEASE" is displayed; the hours will begin flashing. Momentarily pressing the switch will change the hours, holding the switch will move to the minute tens set and the tens digit will begin flashing. Momentarily pressing the switch will now change the minute tens, holding the switch will move to the minute ones set and the ones digit will begin flashing. Momentarily pressing the switch will now change the minute ones. Holding the switch will exit the clock set mode.

SERVICE RESET

"SERVICE DUE" may appear at start up, indicating your preselected service time is due.

The screen will go back to the last display shown.

- To clear the service odometer, after your service was completed, press and release the function switch until the highlighted "SERVICE DUE" appears in either message location.
- When "SERVICE DUE" is displayed, hold the function switch until "RELEASE" is displayed.

SETUP MENU

To simplify the setup procedure please download our IOS or Android app 'Dakota Digital Motorcycle'
The stock trip switch is used to enter setup mode. To get into setup, press and hold the function switch while turning the key on. Press and release the switch to advance through the menus below, press and hold to enter each menu.

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VERSION Displays software codes of each controller		LEARN	Learn gears based on speed and RPM
	FACTORY RESET		Resets all settings except odometer to factory defaults
EXIT SETUP Exit	VERSION		Displays software codes of each controller
	EXIT SETUP		Exit

Programming procedure

PRESS AND HOLD THE STOCK TRIP SWITCH WHILE TURNING IGNITION ON. Release the switch.

For speed calibration: HOLD THE STOCK TRIP SWITCH WHILE STARTING THE BIKE

- Press and **release** the switch to move through the different setup menus.
- Press and hold the switch to enter a setup menu.
- Press and hold to save an option, also.

Current selections within a sub menu are denoted with an asterisk (*)

Exiting Setup

At the end of most setup sections, steps must be taken to properly exit the setup and return to normal operation. When a section in this manual says "**Exit setup**", please refer to these steps.

- Press and release the function switch until you see ">BACK".
- Press and hold the switch until you see "RELEASE", and release the switch.
- Press and release the function switch until you see ">EXIT MENU".
- Press and hold the function switch until you see "RELEASE", then release the switch.

BLUETOOTH Bluetooth menu

- This is diagnostic section when using the app for your smartphone or tablet.
- The app can aid in setup and also read real time data on your smartphone or tablet.
 - o Gauges MUST be in setup mode prior to using setup section in the app.
- When ">BLUETOOTH" is displayed hold the trip switch until "RELEASE" is displayed, and release the switch.
 - o Below "SETUP BLUETOOTH", the Bluetooth ID will be shown.
 - For Android users, this is the ID that you pair to, in Settings/Bluetooth, prior to opening the app.
- The Bluetooth menu options are: "STATUS CHECK", "OFF", "SETUP ONLY", "ALWAYS ON", "RESET", "BACK, and "EXIT".
- Press and release the switch to the option wanted, then press and hold until "RELEASE", then release the switch.
- STATUS CHECK: Shows the unit is either "WAITING" for connection or "CONNECTED" with the app.
- · OFF: turns off the Bluetooth.
- SETUP ONLY: Bluetooth is only active in setup.
- ALWAYS ON: default mode, works for setup and for real time readings on your smartphone or tablet.
- RESET: resets the Bluetooth options to default, useful if pairing is a problem.
- Exit setup.

DIAGNOSTICS Diagnostics mode for checking/clearing trouble codes

- The "run/kill" switch on the bike MUST be ON prior to running diagnostics.
- When ">DIAGNOSTICS" is displayed, hold the trip switch until "RELEASE" is displayed, and release the switch.
- The setup options are: "ENGINE", "SECURITY", "ABS", and "BACK".
- Press and release the switch to change the selection.
- Press and hold the switch until "RELEASE", then release the switch.
- Each section will show either the current codes, "NONE", or "NO RESPONSE"
 - o "NONE" means no codes exist.
 - o "NO RESPONSE" means either that module is not active or the run switch is off.
- If a code is shown, press and release to move on to the next code, or to the end of the list.
 - o Consult a service manual for trouble code descriptions.
- After all codes have been displayed, the display will show ">YES" and "NO".
 - o To leave the codes, press and release the switch to move to ">NO".
 - o Press and hold until "RELEASE", then release the switch.
- To clear codes, when the display shows ">YES" hold the switch until "RELEASE" then release the switch.
- "Done" will momentary display and then the part number of the module will be displayed.
- Press and release the switch to exit back to the Diagnostic menu.
- If "NO" codes exist, press and release the switch to show the module part number and again to exit.
- Press and release to move to move to the next section, or to "BACK" to exit.

LIGHTING Lighting menu for color changes

- When ">LIGHTING" is displayed, press and hold the switch until "RELEASE" is displayed, and release the switch.
- The color menu options are "COLOR THEMES", "SET ALL COLOR", "DISPLAY COLOR", "LABEL COLOR", "MESSAGE COLOR", "BAR COLOR", "WARNING COLOR", "DIMMING", "SUNLIGHT", "RESET" or "BACK".
- Since the color menu options are so expansive the selection process is the same in all sections listed below.
 - Press and release the switch to change the selection.
 - Hold the function switch to enter the selected setup menu, until "RELEASE", and release the switch.
 - The display will show the available options. Press and release the switch to move through the available options.
 - An asterisk* will appear next to the option indicating it's set as the current setting.
 - o Press and hold to select an option, until "RELEASE" is displayed.
 - Exit setup.
- COLOR THEMES: offers preset colors for the LCD color, label colors, message colors, tach bar, and tach warning.
- SET ALL COLOR: can set the entire gauge to one of 31 color choices.
- DISPLAY COLOR: independently sets the speed color to one of 31 color choices.
- LABEL COLOR: independently sets the MPH or km/h label color to one of 31 color choices.
- MESSAGE COLOR: independently sets the message area, (below the speed readout), color to one of 31 color choices.
- BAR COLOR: independently sets the color of the tach bar, up to the warning point, to one of 31 color choices.
- WARNING COLOR: independently sets warning point (high RPM) color to one of 31 color choices.
- DIMMMING: offers two options, AUTOMATIC night dimming, or "OFF".
- SUNLIGHT: special feature to enhance viewing of the TFT LCD in bright daylight with a high contrast display.

This works independently from the night dimming

If enabled, this will temporarily override the color choices made to offer a visible display during the day.

The color will revert back when the sunlight is less intense, (light overcast days can trigger this mode).

- o NORMAL: in daylight the background will stay black as the speed and messages will turn white.
- o INVERT: in daylight the background will turn white as the speed and messages will turn black.
- o OFF: your color choices will not change.
- RESET: This will reset all color choices and options back to original factory colors.
- BACK: Exits menu.

SPEED Speed setup menu

- When ">SPEED" is displayed hold until "RELEASE" is displayed, and release the switch.
- The selectable options are: "ADJUST", "UNIT", "SERVICE RESET", "PRESET ODO", or "BACK".
- Press and release the switch to change the selection. Press and hold the switch to select it.

ADJUST Speed Calibration

The speedometer is calibrated by the engine computer, but the speedometer reading can be adjusted through the gauge. The adjustment is set a value from 75% – 125% with 100% being no change.

- When ">ADJUST" is displayed, then press and hold the switch until "RELEASE", then release the switch
- The display will show the current calibration value, default is "*100".
- Press and release the switch to increase the value.
- The percentage will increase up to 125%. Once it reaches 125 it will roll back over to 75.
 - o If you calculate that you need to reduce speed by 10%, click the switch until 90% is shown.
- Press and hold the switch until "RELEASE", to save the currently displayed value.

UNIT MPH/km/h Selection

- It is very important to set the speed unit PRIOR to setting the odometer!
- When ">UNIT" is displayed, press and hold the switch until "RELEASE" is displayed, release the switch.
- The display will show UNIT and ">*MPH" for miles and "km/h" for kilometers.
- MPH is default. Press and release the switch to choose between MPH or km/h.
- Hold the switch until you see "RELEASE" and release the switch.

SERVICE RESET miles or km to next service setup

Service is a countdown odometer. The service odometer display can be disabled or can be set to count down from 500 – 7500 miles, (800 to 12,000 kilometers). If the service odometer is enabled and reaches 0 miles/km, it will display "SERVICE DUE" each time the key is turned on.

- When ">SERVICE RESET" is displayed, press and hold the switch until "RELEASE" is displayed and release the switch.
- The current setting will be displayed. The default is ">*OFF", but it could be a value in miles or kilometers.
- The miles begin at 500 and go up to 7,500 miles in 500Ml increments.
- The kilometers begin at 800 and go up to 12,000km in 800km increments.
- To change the service odometer, press and release the switch until the desired setting is displayed.
- Hold the switch until you see "RELEASE", and release the switch.
- Exit setup.

PRESET ODO Odometer preset

- ✓ The odometer starts at zero, but can be preset by the customer within the first 100 miles (161 km) of riding.
- √ After riding more than 100 miles (161 km), the menu option will no longer be displayed.
- ✓ Correctly select the units to be either MPH or km/h FIRST, as the odometer will be set in the selected units.
- ✓ The preset is in full miles or kilometers only, no tenths
- ✓ The odometer can be reset multiple times within the first 100 miles (161 km) of riding.
- When ">PRESET ODO" is displayed, press and hold the switch until "RELEASE" is displayed and release the switch.
- The current miles will be displayed with the left most digit flashing.
- To change the flashing number, press and release the switch to the desired number.
- Press and hold the switch until "RELEASE" is displayed, then release the switch.
- Repeat the process of until the right most digit has been set.
- With the far right number flashing, press and hold the switch and the display will show ">SAVE ODO? NO".
- Verify the small odometer at the bottom is what you want set.
 - o If incorrect, hold the button until "RELEASE" is displayed, then release the switch.
 - o You can now step through the process again and correct your readings.
 - Turning the key off at any time will discard any attempted odometer settings.
- If the odometer is correct at the ">SAVE ODO? NO" screen, press and release the switch until "SAVE ODO? YES".
- When ">SAVE ODO? YES" is displayed, press and hold the switch until "RELEASE" is displayed and release the switch.
- Exit setup.

TACH Tachometer warning setup

- When ">TACH" is displayed, press and hold the switch until "RELEASE", then release the switch.
- When ">HIGH WARNING" is displayed, press and hold the switch until "RELEASE", then release the switch.
- The default high warning of "*5500" is shown with a range of 2200 8400 RPMs.
- Press and release the switch to increase the value by 100 RPMs.
- Once reaching 8400 RPMs the next number will roll back to 2200 RPMs.
- Once you choose a valid warning, press and hold the switch until "RELEASE", then release the switch.
- Exit menu.

TEMP Head temperature unit setup menu

(Only valid if ECM is sending out cylinder head temp data)

- When ">UNIT" is displayed, press and hold until "RELEASE", then release the switch.
- The options are "F", "C", or "BACK".
- Press and release to select the unit.
 - o Setting this temperature unit will also change the air temp unit if a MBM-17 is installed with temp sender
- Press and hold until "RELEASE", then release the switch to exit

FUEL Fuel level setup menu

A low warning will be displayed on either the fuel gauge or Speed Top as a red band warning when fuel reaches 10%.

- When ">FUEL" is displayed, press and hold the switch until "RELEASE", then release the switch.
- The options to select between are "SENDER", "RANGE TO EMPTY", "TEST", and "BACK".
- Press and release the switch to change the selection, press and hold the switch to select it.

SENDER Fuel sender selection

- When ">SENDER" is displayed, then press and hold the switch until "RELEASE", then release the switch.
- The options to select between are "SPORTSTER", "DYNA 04", "DYNA 08", "CUSTOM" and "BACK".
- Press and release the switch to change to the proper sender.
- Press and hold the switch until "RELEASE", then release the switch

• Exit fuel setup to confirm fuel selection

- o CUSTOM is only for rare occasions if a stock sender is not being used.
- o If CUSTOM is selected, you will be prompted to program.
- When ">PROGRAM" is displayed, press and hold until "RELEASE", then release the switch.
- The display will show "SET EMPTY"
- o With an empty tank, press and hold until "RELEASE", then release the switch.
- o The display will show "SET FULL"
- o Fill the tank
- o Press and hold until "RELEASE", then release the switch.
- o Exit setup to confirm fuel selection.

WARNING LIGHT Low fuel light setup

The low fuel indicator can be turned on or off

- When ">WARNING LIGHT" is displayed, then press and hold switch until "RELEASE", then release the switch
- The options to select from are "OFF", "ON", and "BACK"
- Press and release the switch to change the option
- · Press and hold the switch until "RELEASE" to save

RANGE TO EMPTY Distance to empty (fuel) setup

- The range to empty option will calculate an estimate of miles until empty.
- This will vary on riding conditions and will change as it continually monitors fuel usage and speeds.
- ✓ The process will begin with a full tank, and then enter into the FUEL menu, RANGE TO EMPTY, and LEARN RESET.
- ✓ Once the reset has been done, you may ride until the tank is below ¼.
- ✓ This can be done over multiple trips as long as no fuel is added until the level is less than 25%, then it must be filled.
- ✓ When the system is working, the DIST TO E screen will have a countdown odometer.
- ✓ When the DIST TO E odometer reaches 35 miles or 56km, it show a "RANGE LOW" warning.
- ✓ Once the RANGE TO EMPTY is working, you may fill your tank normally, when needed.
- ✓ Range function not available on Sportster models as they have a low fuel switch and not an actual sensor.
- When ">RANGE TO EMPTY" is displayed, then press and hold the switch until "RELEASE", and release the switch.
- The options to select are "ON", "OFF", and "BACK".
- Press and release the switch to select an option.
- Press and hold the switch until "RELEASE", then release the switch.
- If ON is selected, the next option is "LEARN RESET" and "BACK".
- "LEARN RESET" will tell the gauge to learn fuel usage while riding. It can be reset again if the process failed.
 - Once the fuel tank is full, you may select "LEARN PRESET".
 - o Press and hold the switch until "RELEASE", then release the switch.
 - Exit setup
 - o Cycle the ignition then you may ride until fuel is less than 25%.
 - o Only then, you may refill the tank. Once full, the process will complete itself.
 - o Filling and refilling must be done the same way, either both on kick stand or both upright.

TEST Gauge reading test

- Press and release the switch until "TEST" is displayed, then press and hold the switch until "RELEASE" is displayed.
- The calculated fuel level from 0 99% will be shown. Press the switch to exit.
- Exit setup.

VOLT Low voltage warning setup

- When ">VOLT" is displayed, press and hold the switch until "RELEASE", then release the switch.
- The low voltage warning points will range from 9.0 to 12.1 volts.
- Press and release the switch to change the low voltage warning point.
- Press and hold the switch until "RELEASE" is displayed, and release.
- Exit setup.

DISPLAYS Message display option menu

- When ">DISPLAYS" is displayed, press and hold the switch until "RELEASE" is displayed, and release.
- The display options are "MESSAGE TOP", "MESSAGE BTM", and "BACK".
- The Speedometer has only two options: PERFOMANCE HIDE / SHOW.
 - o If "PERFORMANCE SHOW" is selected, the options of "HIGH SPEED RECALL", "0-60 TIME", "¼ MILE TIME, with ¼ MILE SPEED", and "HIGH RPM RECALL" will be added to the display options available while riding.
 - o These options will appear after "SPEED km/h", (or SPEED MPH if the speedometer is set to kilometers).
 - o Any MBM modules will automatically be added to the list in MESSAGE TOP and BTM

MESSAGE TOP Speed Top message screen information

- When ">MESSAGE TOP" is displayed press and hold until "RELEASE", the release the switch.
- The options will be "PERFORMANCE HIDE", "PERFORMANCE SHOW", and "BACK".
- Press and release to select the option.
- Press and hold the switch to select your preference.

MESSAGE BTM Speed Bottom message screen information

- When ">MESSAGE BTM" is displayed, then press and hold until "RELEASE", the release the switch.
- The options will be "PERFORMANCE HIDE", "PERFORMANCE SHOW", and "BACK".
- Press and release to select the option.
- Press and hold the switch to select your preference.

MBMS Display which MBMs are connected and adjust warnings

To troubleshoot MBM connections, the speedometer can indicate which senders it sees connected.

- When ">MBMS" is displayed, press and hold until "RELEASE", then release the switch.
- The screen will show "NONE" if there are no MBMs present.
- If MBMs are present you will see a list of the MBMs are connected.
- Press and release to scroll through the available MBMs that are connected.
- Press and hold the switch to enter warning setup (does not apply to all) for attached MBMs.
- Press and release the switch to scroll through available warning settings.
 - See the separate MBM manual for additional details.
- Exit setup

GEAR Gear indicator setup

Optional gear readout will be displayed to the left of the clock only.

No programming is required with stock gearing and tire size.

The gauge can 'learn' the gear ratios based on speed and RPM, no additional sensors are needed.

This feature will work with various transmissions up to seven speed models

The factory preset option will preset the indicator to work with a stock 5 or 6 speed drive train

With a stock 6 speed, there will be a slight delay the first time you shift to sixth gear as the system verifies the gear

When "learning" the gear positions, you will need a stretch of road to gradually reach highway speeds with no interruptions.

Each gear will need the speed to be held steady, until instructed to speed up and shift up.

- >> Gear "LEARNING" requires holding the function switch, THEN starting the engine to enter setup <<
- Once the engine is running, release the switch.
- Press and release the switch until "GEAR" is displayed.
- Press and hold the switch until "RELEASE" is displayed, then release the switch.
- The display will show "PRESET", "P-1200", "P-883", "LEARN", or "BACK".
 - o "PRESET" set the gear reading to factory gearing and tire size for a Dyna or Softail
 - o "P-1200" set the gear reading to factory gearing and tire size for a Sportster 1200
 - o "P-883" set the gear reading to factory gearing and tire size for a Sportster 883
 - "LEARN" starts the leaning process of speed and RPMs to calculate your gear reading.
- To set the gear for a factory setup select "PRESET", "P-1200", or "P-883".
 - o Press and hold the switch until "RELEASE" is displayed, then release the switch.
 - o Press and hold again to return to Gear menu.
- To start learning gears, press and release the switch until ">LEARN" is displayed, then press and hold the switch.
 - The message will show "NO RPM" if the engine RPM is below 1500.
 - o The message could also say "LOW SPEED" if the vehicle speed is below 5 MPH.
- Begin riding in 1st gear. The display should show "WAIT 1".
- Ride at a steady speed and steady RPM until the message changes to "SHIFT TO 2".
- It should only take about 20 seconds if the speed and RPMs are steady.
 - Optional: If the message continues to say "WAIT 2", you can manually override and jump to the next gear by pressing and releasing the switch to store the gear position quicker.
- Upshift to 2nd gear and ride at a steady speed. The display should change to "WAIT 2".
- Ride until the message changes to "SHIFT TO 3". Shift to 3rd gear.
 - Optional: If the message continues to say "WAIT 3", you can manually override and jump to the next gear by pressing and releasing the switch to store the gear position quicker.
- · Repeat this through each gear.
- When you are done, press and hold the switch until the display shows "MOVE LINE" and then release it.
- The gears will now show up to the left of the clock display only.

*When downshifting, the gear position may jump up momentarily as the RPM is higher than expected. Also, the gear position reading may drop to "N" or a "0" when you pull the clutch in coming to a stop. The position will begin reading as the bike begins to move in gear.

FACTORY RESET

- In the event you would like to start over with your settings, preferences and display locations, this will reset all settings back to the out-of-the-box configuration.
- This includes message locations, color selections and speedometer calibration but DOES NOT include the odometer.
- When you see ">FACTORY RESET", press and hold the switch until "RELEASE" then release the switch.
- The options will be "NO" and "YES".
- By pressing and holding on ">NO" it will exit the reset menu.
- When you select ">YES", press and hold the switch until "RELEASE" is displayed, then release the switch.
- The screen will "YES" and "RESET". Tap the switch once to return to the main menu.

VERSION

 For technical support assistance, this screen can display the model number and the software versions loaded for the two processors.

EXIT SETUP

• Exits the setup menu and returns to normal gauge operation.

Troubleshooting guide

Problem	Possible cause	Solution
Gauge will not light up.	Brown/Gray wire does not have power.	Inspect and repair stock harness.
	Orange/White wire does not have power.	Inspect and repair stock harness.
	Orange wire does not have power.	Inspect and repair stock harness.
	Black wire is not getting a good ground.	Inspect and repair stock harness.
	Ignition switch not connected or damaged.	Inspect and repair stock switch or harness.
	Gauge is damaged.	Return gauge for repair (see instructions).
Gauge lights up, but speed	No data from ECM.	Check engine trouble codes.
will only show zero.	Sensor is not sending a speed signal.	Check wiring and test sensor.
Speed reading is incorrect.	Gauge is not calibrated correctly.	Gauge must be calibrated (see instructions).
Gauge lights up, but tach will only show zero.	No data from ECM.	Check engine trouble codes.
Gauge will not dim.	Auto dimming is disabled.	Check setting under "night" menu.
Gauge remains dim at all times.	Light sensor is covered.	Make sure the lower left side of the gauge lens is clean and not obstructed.
Temperature reading does	'Run' switch is not on.	'Run' switch must be on to get temperature data from ECM.
not show up.	Sender wire is loose or broken.	Check all wire connections and inspect wire for breaks.
·	Aftermarket ECM does not support transmitting the head temperature data.	Contact ECM manufacturer.
Low Fuel Light not turning on.	Incorrect setting or turned off.	Verify function is "ON" in FUEL setup menu and that the set up is correct or adjust value.
Low Fuel Light turning on too early/late.	Incorrect setting.	Verify setting or adjust the value following FUEL menu adjust feature in setup.
Low Fuel Light always on.	Sensor damaged.	Check resistances following procedure in service manual.
Low Fuel Light flashing.	Wiring short or open.	Check gauge and fuel sender connections.
Gauge display has white background in sunlight	Sunlight setting is set to "Invert"	This is a default setting on this gauge to increase visibility in direct sunlight. This can be modified in the "Sunlight" menu if desired

SERVICE AND REPAIR

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our products. Please read through the Troubleshooting Guide. There, you will find the solution to most problems.

Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number. Package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. Be sure to include the RMA number on the package and include a complete description of the problem with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day. Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase. Send no money. We will bill you after repair.

Dakota Digital 24 Month Warranty

DAKOTA DIGITAL warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship within 24 MONTHS FROM THE DATE OF PURCHASE, such defect(s) will be repaired or replaced at Dakota Digital's option. This warranty does not cover nor extend to damage to the vehicle's systems and does not cover removal or reinstallation of the product. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident. This Warranty is in lieu of all other expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty. Any action for breach of any warranty hereunder, including any implied warranty of merchantability, must be brought within a period of 24 months from date of original purchase. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

▲WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



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