

## Operation menu

#### Left switch functions

Pressing the left switch during normal gauge operation will move through the below commonly viewed functions for convenience.

000	00.0	Odometer
12:01	08	Clock (hold left switch to set)
		Setting clock:
		Left switch press moves between hours and minutes
		Right switch press changes current value
		Hold left switch again to exit clock set mode
Н	0.0	Hourmeter

#### **Right switch functions**

Pressing the right function switch during normal operation will scroll through the following display functions. A heading will first appear after each press to display what display function is currently selected. After about 2 seconds, the display will show the data for the selected function.

<u>Heading</u>	<u>Data</u>	Description
TRIP A	R 0.0	Trip A (hold right switch to reset)
TRIP B	B 00	Trip B (hold right switch to reset)
SRV MI(SRV KM)	5 0000	Count down Service odometer if enabled (hold right switch to reset)
รณะ หต่	SH 000	Count down service hour meter if enabled (hold right switch to reset)
мрн(крн)	ОО МРН <b>(</b> ОО КРН <b>)</b>	Alternate speed display (hold right switch to change primary unit)
TREH	R 0000	Tachometer displays in information center

# **INSTALLATION:**

- 1. Disconnect the battery to prevent possible damage to the electrical system or gauge during install.
- 2. Remove the stock gauge or indicator panel (see service manual for removal instructions). The UTV gauge will mount in this mounting location.
- 3. Remove the seats, console/engine cover, front engine cover, and center floor/front drive shaft cover (refer to service manual). This allows access to sensor locations on the engine and wire routing locations.
- 4. Temperature sender installation:
  - a. Unplug the wire from the thermal switch. The thermal switch is located toward the top of the engine near the coolant outlet. *NOTE: If engine is warm, allow it to cool before continuing.*
  - b. Remove the thermal switch from the engine.
  - c. Replace with the supplied temperature sender (SEN-04-9). DO NOT use sealant tape on the threads as this will cause a poor ground, which will give an incorrect sender reading.
  - d. Plug the wire from the thermal switch onto the temperature sender. The gauge will use the thermal switch wiring for the sender.
  - e. Check coolant level and add coolant if needed.



## 5. Oil sender installation:

- a. Turn the provided oil sender into the oil pressure sender hose fitting. Sealant tape may be used on this sender as the gauge provides ground through the harness.
- b. Tighten the sender into the fitting with appropriate wrenches.
- c. Cut either one of the hoses going to the oil cooler toward the front of the engine to allow the installation of the oil sender T-fixture. It doesn't matter which hose. Have some rags handy as the hose will leak some oil.
- d. Place a hose clamp onto each end of the cut oil cooler hose. Two hose clamps are included with the gauge.
- e. Insert the fitting into the hose and tighten hose clamps onto hose and fitting.
- f. Remove terminal thumb nuts on oil pressure sender and put ring terminals from oil sender harness onto the terminals. Secure



- with terminal thumb nuts. The sender terminals don't have a polarity so just connect one wire to each terminal. g. Route oil sender harness up to the gauge mounting location. Zip tie the harness with provided zip ties so that it
- will not be pinched or damaged.
- h. Be sure to check engine oil level and add oil if needed.

- 6. Fuel sender installation (optional tube sender from Dakota Digital):
  - a. To mount the sensor you will need to drill a hole in the fuel tank. Use a 1" hole saw, and drill a hole adjacent to the small dimple on the gas tank closest to the passenger side of the vehicle. Use a fuel safe sealant and coat the supplied cork gasket to provide a leak free seal from the tank to the sensor. Secure the sensor with the supplied stainless screws. DO NOT OVER TIGHTEN THE SCREWS.
  - b. Attach the wiring harness provided with the sender. Connect the Red wire to the POS terminal. Connect the Black wire to the NEG terminal. Connect the GREEN wire to the SEND terminal.
  - c. Route the wire harness up to the gauge mounting location using supplied zip ties to tie the harness so that it will not be pinched or damaged.
- 7. Locate the stator rotation detection wire (red wire, pin 6 in the 8 pin connector coming out of CDI module located near the battery) and place the included T-tap connector onto it using a pair of pliers. This wire will be used for the tachometer signal.



- 8. Route the wires from the UTV gauge through the hole in the gauge opening and place gauge into opening. Secure the gauge with the three provided washers and thumb nuts.
- 9. Route the yellow tach wire to the T-tap connector for the tachometer and plug into the connector.
- 10. Plug the four pin connector from the oil pressure harness into the four pin connector in back of gauge.
- 11. If using a separate fuel sender plug the three pin connector from the fuel sender harness into the three pin connector in the back of the gauge.
- 12. Locate the three gauge connectors in the Rhino harness. These connectors will be located close to the gauge mount location on the under hood side of the dash panel.
- 13. Plug the 6 pin gauge connector into the 6 pin connector on the Rhino.
- 14. Plug the 4 pin gauge connector into the 4 pin connector on the Rhino
- 15. Plug the 3 pin gauge connector into the 3 pin connector on the Rhino.
- 16. Reconnect battery.
- 17. Turn the key on and verify that the gauge functions as expected.
- 18. Start engine and check for oil and water leaks. Shut off engine.
- 19. If there are no oil or water leaks, reinstall the floor panels, engine covers and seats as described in the service manual.
- 20. Installation is now complete. If you experience difficulties check the troubleshooting section in this manual.

## SETUP

To enter the setup menu, press and hold the left switch while turning the key on. If your speed calibration differs from stock due to non-stock tires or gears and you will be calibrating the speedometer, press and hold the left switch while starting the engine.

-Press the left switch to move through the menus or change the settings after a menu option is selected.

-Hold the left switch for more than 2 seconds to scroll through options or settings

-Press the right switch to select a menu option or to save a setting and go back to the menu.

SETUP INFO	Release switch to enter setup menu Information menu		
VER	Displays software version		
U I I3	Current software version		
SP ERL	Displays current speed cal value		
160000	Current speed cal value		
MAIN	Returns to info menu		
SPEEJ	Speed gauge menu		
LINIT	Select unit for speed		
RUTO	Toggle between MPH and KPH (select unit to use for calibration) Auto calibrate speed to a marked mile or kilometer		

Я]JJUST Я]JJUST SRV MI (SRV KM) OFF ( OFF) SOO ( 800)  ISOO ( 12000) MRIN	<ul> <li>Pulls up all values <i>EL</i> on speed and speed pulses in odometer Press Right switch to finish cal and save value</li> <li>Adjust speed cal while driving Each press of left switch toggles direction of adjustment, right switch to save and exit</li> <li>Sets value of service odometer set when service odometer is reset Turns off the count down service odometer (default) Sets service to 500 mi or 800 km when resetting service odometer. Service point can be set in 500 mi (800km) increments. Sets service to 7500 mi or 12000 km when resetting service odometer.</li> <li>Returns to info menu</li> </ul>
ТЯСН	Tachometer gauge menu
ENGINE	Sets number of cylinders from 1-15 (default 12 for use on alternator output)
488N 4 3360	Sets RPM warning point (default 5500 RPM)
N CCDU	Warning point on 2250 RPM increments
 И 9750	Maximum warning point of 9750 RPM
5RV HR	Sets service hour value used when resetting count down service hour meter
0FF	Service hour meter disabled (default)
111	Minimum service hour set point Service hour react point can be act in 10 hr incremente
 7 IN	Maximum service hour set point
MAIN	Returns to info menu
68U6ES	Gauge option menu
VLI HI	Set high voltage warning point (default 15.4V)
VLT LO	Set low voltage warning point (default 11.1 V)
FL 5NU NANG	Set fuel sender used fuel area will be blanked out (default)
STAFK	Uses stock fuel sender for Rhino
JAKJIG	Uses Dakota Digital sender to be installed in tank
EUSTOM	Uses custom sender, user must calibrate for the sender curve
EAL / <b>(</b> EAL	N) Select ERL / to calibrate sender
צחריי הה ההה	Start with empty tank, or fuel sender in empty position
22 LLA 811 66	Fill fuel to 2/3 tank, press right switch to save point
AJJ 99	Fill fuel to full tank, press right switch to save point
DONE	Custom fuel calibration is complete, press right switch to go back to menu
OIL LO	Set low oil pressure warning point (default 9 PSI)
WIR H <u>I</u> Deele (Deele)	Set high water temp warning point and set temperature unit (default 230F)
ШСС К (ШСС L) ЦТР ИТ	Select temp unit, press left switch to change, right switch to save
MAIN	Returns to info menu
ΠΡΤΤΠΝ	Option menu
DIM LV	Adjust dimming point on gauge
0FF	Dimming function is off
	Gauge will dim when light on gauge face is very low (default)
   !!! ]	/ selectable dimming levels Gauge will dim early when more light is on gauge face
TIM DIT	Enables/disables dim output for other gauges
ON	Dim output will be high when gauge is dimming
0F F	Dim output will be disabled (default)
WN OUT	Selects which gauges provide a warn out signal on warn out wire (default all on)
WN OUT	Gauges that provide signal out are lit up, left switch to change, right switch to save
TALL FARLA	wan ouput wire is disabled

ELOEK±	Adjust clock speed for accuracy
~7 SEE	Subtract 7 seconds from clock every 24 hrs
 0 sec	No adjustment to factory clock speed (default)
+7 SEE	Add seven seconds to clock every 24 hrs
ST ODO	Allows presetting of odometer value on initial install (not available after 10 miles / 16km)
SET HR	Allows presetting of hour meter value on initial install (not available after 1.0 hrs)
MRIN	Returns to info menu
DONE	Leaves setup menu if selected

## ADDITIONAL SETUP NOTES:

## <u>SPEED – AUTO</u>

This setup option allows calibrating to a known mile or kilometer. By default, the speed is calibrated to use the Rhino Factory speed signal. Calibration should only be needed if the factory calibration is no longer correct due to changes to tires or gearing.

- 1. Start with vehicle at the beginning of the marked mile or kilometer and turn the key off.
- 2. Start engine while holding the left switch to enter setup.
- 3. Select speed option in setup and select appropriate unit (if you will be calculating to a known kilometer choose KPH, else choose MPH).
- 4. Select the Auto option. The gauge will light all the displays and the speed display will read [L
- 5. Begin driving the mile or kilometer. The message center will read the number of pulses read from the speed signal. This value cannot be used to determine if a mile or kilometer has been driven.
- 6. At the end of the mile or kilometer, stop the vehicle and press the right switch to save the new speed calibration. The gauge will return to the speed setup menu.

## <u>SPEED – ADJUST</u>

This setup option allows adjustment to speed while driving. By default, the speed is calibrated to use the Rhino Factory speed signal. Calibration should only be needed if the factory calibration is no longer correct due to changes to tires or gearing.

- 1. Start vehicle while holding the left switch to enter setup.
- 2. Select speed option in setup and select appropriate unit (if you will be calculating to a known kilometer choose KPH, else choose MPH).
- 3. Select the ADJUST option. The gauge will light all the displays and the message center will read 810051
- 4. Follow another vehicle traveling at a constant known speed. Hold the left switch to begin increasing the speed reading. To decrease the speed reading, release the switch and press and hold the switch again.
- 5. The direction of adjustment will change each time the switch is released.
- 6. When the speed has been adjusted, press the right switch to save the new speed calibration. The gauge will return to the speed setup menu.

#### SERVICE METERS

This gauge has two service meters. These are a countdown hour meter and a countdown odometer. Both service meters can be disabled, or enabled independently. This allows for setting of two individual service points, one based on engine run time, the other based on odometer. This could also allow for setting a service point on whichever service point comes first, hourly or odometer.

When the setup point is reached, SERVICE INE will scroll in the message center. Pressing either switch will clear the message until the next time the key is turned on. Once the service has been done, use the left switch to select the service meter that is due (display will show a negative value or zero). Press and hold the right switch to reset the service meter to the value set in setup.

The service meter can be disabled by selecting  $\square FF$  in setup. If a new value is set for the service meter, and the meter was previously set to  $\square FF$ , the service message may immediately be displayed. Reset the service meter to begin a new countdown.

#### ODO/HR PRESET

Within the first 10 miles (16 km) and 1.0 engine hours after first installing the gauge, the option is available for a ONE TIME preset of the odometer and hour meter to the reading(s) of the previous gauge. If this option is not used within the first 10 miles (16 km) or 1.0 engine hours or an incorrect reading is saved, the gauge will need to be returned to Dakota Digital for any odometer/hour meter adjustment. The procedure to preset the meters is as follows:

- 1. If setting odometer select 57 010 option in setup. If setting hour meter select 587 HR.
- 2. For odometer preset, verify that correct unit is displayed above message center. If not, turn key off to leave setup and use unit option under speed to set correct unit. **NOTE:** *Preset MUST be done with correct unit or odometer will not be set correctly!*
- 3. The current odometer / hour meter value is displayed with the first digit blinking
- 4. Press and release the left switch to change the digit. Press and release the right switch to move on to the next digit.
- 5. Repeat step 4 until all digits are set. After tenths digit is set, press and release the right switch.
- 6. Water temp display will read "np". Check the current unit (if in odo preset) and the odometer / hour meter value to make sure it is correct. If not, press and release the right switch to go back and make changes.
- 7. NOTE: Check the displayed odometer value VERY carefully before next step. After selecting yes, you will no longer be able to change the odometer / hour meter.
- 8. If the settings are all correct, press and release the left switch. Water temp display will read "JE5".
- 9. Press and release the right switch to preset the odometer / hour meter to the new value.

#### SELECTING FUEL SENDER

By default, no fuel sender is selected and the fuel display will be blank. If a fuel sender is used a fuel sender must be selected. Use the fuel sender option in the Gauges menu to select used fuel sender. The name of the fuel sender is displayed in the message center. Two numbers are also displayed on the right side of the panel. The upper number is the sender resistance in ohms at full tank. The lower number is the sender resistance in ohms at empty tank.

#### CUSTOM FUEL SENDER SETUP

If a fuel sender other than the Rhino stock fuel sender or the Dakota Digital fuel sender is used, the gauge needs to be calibrated to the new fuel sender. The custom fuel sender option in the gauges menu allows this function.

- 1. Begin with an empty (or near empty) fuel tank.
- 2. Select custom fuel sender option in gauge setup menu.
- 3. Use left switch to change to change to  $ERL \neq$  and then press the right switch to select.
- 4. The gauge will light two numbers on the right side. The lower number is the current resistance of the fuel sender in ohms. The upper number is the tank percentage point currently being calibrated.
- 5. Four points are needed to calibrate the sender, empty, 33%, 66%, 99% (full tank). The gauge expects calibration to start at empty and move to each of these points.
- 6. Gauge will display EMPTY. Make sure tank is empty or sender is at empty point. Press the right switch to save point in calibration.
- 7. Gauge will display RBB 33. Add fuel to 1/3 tank or move sender to 1/3 full point. Press the right switch to save point in calibration.
- 8. Gauge will display 811 55. Add fuel to 2/3 tank or move sender to 2/3 full point. Press the right switch to save point in calibration.
- 9. Gauge will display 811 99. Add fuel to full or move sender to full point. Press the right switch to save point in calibration.
- 10. Gauge will display IONE. Press the right switch to finish calibration and return to gauges setup menu.

#### OPTION - DIM OUT

The dim out option allows the dim output to be turned on or off. The dim output is used if you have installed other Dakota Digital gauges and would like this gauge to also control the dimming of these gauges. If the dim out option is turned on, 12v is sent out on the dim out wire when the gauge is dimming. In this mode, the gauge will be either in dim mode or full brightness mode.

If no other gauges are to be dimmed, this option can be set to off. In this mode the gauge will fade when dimming and gauge dimming will be less noticeable.

# TROUBLESHOOTING

Gauge does not light up       Gauge has bad ground or power       Check connections to wiring harness and check wiring harness and gauge wires for pinched or broken wires.         Tach always stays blank       Tach wire is not connected properly       Check for good connection to alternator wire.         Tach reads incorrectly       Engine value set incorrectly       Set Engine value to 12 for alternator connection         Speed reads incorrectly       Speedometer needs to be recalibrated       See setup for speed calibration instructions.         Gauge is always dim       Dim level is set to of for set too low       Set dim level to higher level (see setup)         Gauge dues not fuel setup       Fuel sender resistance is too high       Set dim level to number level (see setup)         Gauge ustom fuel setup       Fuel sender resistance is too high       Check for good connection to fuel sender and fuel sender must be below 1000Ω         SPID FUEL is scrolled       Resistance has not changed enough since previous point.       Shigh resistance has started with falling resistance and now the resistance has fisher than expected.         SVID L0 displayed during custom setup       Fuel sender resistance is lower than expected.       Fuel sender resistance is lower than expected.         PROBLEM       CAUSE       SOLUTION       Set dim level on sender. Check for good ground and remove any sealant tape on threads of sender.         FEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender is being us	PROBLEM	CAUSE	SOLUTION
Writing harness and gauge wires for pinched or broken wires.Tach always stays blankTach wire is not connected properly Engine value set incorrectlyCheck for good connection to alternator wire. Set Engine value to 12 for alternator (see setup)Tach reads incorrectlyEngine value set incorrectlySet Engine value to 12 for alternator connectionSpeed reads incorrectlySpeedometer needs to be recalibratedSee setup for speed calibration instructions.Gauge does not dimDim level is set to of or set too lowSet dim level to higher level (see setup)Gauge does not dimDim level is set to of or set too lowSet dim level to lower level (see setup)Gauge does not dimDim level is set to of highSet dim level to lower level (see setup)Gauge does not dimDim level is set too highSet dim level to lower level (see setup)Gauge does not dimFuel sender resistance is too highCheck for good connection to fuel sender and fuel sender to ground. Sender must be below 10000RBNDE Lis scrolled during custom fuel setupResistance has not changed enough since previous point.Add fuel until next third of tank or move sender to the next third tank position.SNID Li displayed during custom setupFuel sender resistance is lower than expected.Fuel sender resistance is lower than expected.SNID Li displayed during custom setupFuel sender resistance is lower than expected.Fuel sender connected, or incorrect key.SNID Li displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.SolLUTIONEEE is displayed in fuel, oil, <br< td=""><td>Gauge does not light up</td><td>Gauge has bad ground or power</td><td>Check connections to wiring harness and check</td></br<>	Gauge does not light up	Gauge has bad ground or power	Check connections to wiring harness and check
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Tach reads incorrectly     Engine value set incorrectly     Set Engine value to 12 for alternator connection       Speed reads incorrectly     Speedometer needs to be recalibrated     See setup for speed calibration instructions.       Gauge does not dim     Dim level is set to of or set too low     Set dim level to higher level (see setup)       Gauge is always dim     Dim level is set too high     Set dim level to lower level (see setup)       Make sure left side of lens is not covered.     Make sure left side of lens is not covered.       RRMSE displayed during     Fuel sender resistance is too high     Check for good connection to fuel sender and fuel sender to ground. Sender must be below 1000Ω       MIL # Li sis scrolled     Resistance has not changed enough during custom fuel setup     Fuel sender resistance is higher than expected.     Add fuel until next third tank position.       SNIL # Li displayed during custom setup     Fuel sender resistance is lower than expected.     Fuel sender resistance is lower than expected.     Fuel sender resistance is lower than expected.       SNIL # Li displayed during custom setup     Fuel sender connected, or incorrect sender selected.     SolLUTION       EEE is displayed in fuel, oil, or water display     No sender connected, or incorrect sender selected.     Check proper connection to sender. Check for good ground and remove any sealant tape on threads of sender.		Engine value set incorrectly	Set Engine value to 12 for alternator (see setup)
Speed reads incorrectly         Speedometer needs to be recalibrated         See setup for speed calibration instructions.           Gauge does not dim         Dim level is set to off or set too low         Set dim level to higher level (see setup)           Gauge is always dim         Dim level is set too high         Set dim level to lower level (see setup)           Make sure left side of lens is not covered.         Make sure left side of lens is not covered.           RBN5E displayed during custom fuel setup         Fuel sender resistance is too high         Check for good connection to fuel sender and fuel sender to ground. Sender must be below 1000Ω           ABIB FUEL is scrolled during custom fuel setup         Resistance has not changed enough since previous point.         Add fuel until next third of tank or move sender to the next third tank position.           SHIB H displayed during custom setup         Fuel sender resistance is higher than expected.         Fuel sender resistance is lower than expected.         Fuel sender resistance has risen. Correct fuel position or start custom programming over by turning off key.           SHIB L D displayed during custom setup         Fuel sender connected, or incorrect sender selected.         Check proper connection to sender. Check for broken or pinched sensor wires.           PROBLEM         CAUSE         SOLUTION         Solution           EEE is displayed in fuel, oil, or water display         No sender connected, or incorrect sender selected.         For water temp sender, check for good ground and remove any se	Tach reads incorrectly	Engine value set incorrectly	Set Engine value to 12 for alternator connection
Gauge does not dim         Dim level is set too figh         Set dim level to higher level (see setup)           Gauge is always dim         Dim level is set too high         Set dim level to lower level (see setup)           Gauge is always dim         Light sensor over left switch is covered         Make sure left side of lens is not covered.           RRMSE displayed during         Fuel sender resistance is too high         Check for good connection to fuel sender and fuel sender to ground. Sender must be below 1000Ω           RRMSE displayed during custom fuel setup         Resistance has not changed enough during custom setup         Fuel sender resistance is higher than expected.         Add fuel until next third of tank or move sender to the next third tank position.           SMB HI displayed during custom setup         Fuel sender resistance is higher than expected.         Fuel sender resistance and now the resistance has risen. Correct fuel position or start custom programming over by turning off key.           SMB LB displayed during custom setup         Fuel sender resistance is lower than expected.         Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.           PROBLEM         CAUSE         SOLUTION           EEE is displayed in fuel, oil, or water display         No sender connected, or incorrect sender selected.         Check proper connection to sender. Check for broken or pinched sensor wires.           For water temp sender, check for good ground and remove any s	Speed reads incorrectly	Speedometer needs to be recalibrated	See setup for speed calibration instructions.
Gauge is always dim       Dim level is set too high Light sensor over left switch is covered       Set dim level to lower level (see setup)         RRMSE displayed during custom fuel setup       Fuel sender resistance is too high since previous point.       Check for good connection to fuel sender and fuel sender to ground. Sender must be below 1000Ω         RBM FUEL is scrolled during custom fuel setup       Resistance has not changed enough since previous point.       Add fuel until next third of tank or move sender to the next third tank position.         SMD HI displayed during custom setup       Fuel sender resistance is higher than expected.       Fuel sender resistance is lower than expected.         SMD LB displayed during custom setup       Fuel sender resistance is lower than expected.       Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.         PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       For water temp sender, check for good ground and remove any sealant tape on threads of sender.	Gauge does not dim	Dim level is set to off or set too low	Set dim level to higher level (see setup)
Light sensor over left switch is coveredMake sure left side of lens is not covered.RRNEE displayed during custom fuel setupFuel sender resistance is too highCheck for good connection to fuel sender and fuel sender to ground. Sender must be below 1000ΩRBID FUEL is scrolled during custom fuel setupResistance has not changed enough since previous point.Add fuel until next third of tank or move sender to the next third tank position.SHID HI displayed during custom setupFuel sender resistance is higher than expected.Fuel sender resistance is lower than expected.SHID LD displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with falling resistance and now the resistance has risen. Correct fuel position or start custom programming over by turning off key.SHID LD displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTIONEEE is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.For water temp sender, check for good ground and remove any sealant tape on threads of sender.	Gauge is always dim	Dim level is set too high	Set dim level to lower level (see setup)
RRH5E       displayed during custom fuel setup       Fuel sender resistance is too high custom fuel setup       Check for good connection to fuel sender and fuel sender to ground. Sender must be below 1000Ω         RBIF_FUEL is scrolled during custom fuel setup       Resistance has not changed enough since previous point.       Add fuel until next third of tank or move sender to the next third tank position.         SHIF_HI_Gisplayed during custom setup       Fuel sender resistance is higher than expected.       Fuel sender resistance has risen. Correct fuel position or start custom programming over by turning off key.         SHIF_LIF_Gisplayed during custom setup       Fuel sender resistance is lower than expected.       Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.         PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       For water temp sender, check for good ground and remove any sealant tape on threads of sender.		Light sensor over left switch is covered	Make sure left side of lens is not covered.
custom fuel setup       sender to ground. Sender must be below 1000Ω         RII FUEL is scrolled during custom fuel setup       Resistance has not changed enough since previous point.       Add fuel until next third of tank or move sender to the next third tank position.         SHI HI displayed during custom setup       Fuel sender resistance is higher than expected.       Fuel sender resistance is higher than expected.       Fuel sender resistance has risen. Correct fuel position or start custom programming over by turning off key.         SHI LO displayed during custom setup       Fuel sender resistance is lower than expected.       Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.         PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       If no fuel sender is being used, set the fuel sender	RBN5E displayed during	Fuel sender resistance is too high	Check for good connection to fuel sender and fuel
RIB FUEL is scrolled during custom fuel setup       Resistance has not changed enough since previous point.       Add fuel until next third of tank or move sender to the next third tank position.         SHB HI displayed during custom setup       Fuel sender resistance is higher than expected.       Fuel sender was started with falling resistance and now the resistance has risen. Correct fuel position or start custom programming over by turning off key.         SHB LO displayed during custom setup       Fuel sender resistance is lower than expected.       Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.         PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       For water temp sender, check for good ground and remove any sealant tape on threads of sender.	custom fuel setup		sender to ground. Sender must be below $1000\Omega$
during custom fuel setupsince previous point.the next third tank position.5HB HI displayed during custom setupFuel sender resistance is higher than expected.Fuel sender was started with falling resistance and now the resistance has risen. Correct fuel position or start custom programming over by turning off key.5HB LB displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.5HB LB displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTIONEEE is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.For water temp sender is being used, set the fuel sender	RII FUEL is scrolled	Resistance has not changed enough	Add fuel until next third of tank or move sender to
SH3 HI displayed during custom setupFuel sender resistance is higher than expected.Fuel sender was started with falling resistance and now the resistance has risen. Correct fuel position or start custom programming over by turning off key.SH3 L0 displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.SH3 L0 displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTIONEEE is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.For water temp sender, check for good ground and remove any sealant tape on threads of sender.	during custom fuel setup	since previous point.	the next third tank position.
custom setupexpected.now the resistance has risen. Correct fuel position or start custom programming over by turning off key.5NIL L0 displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTIONEEE is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.If no fuel sender is being used, set the fuel sender	SNI HI displayed during	Fuel sender resistance is higher than	Fuel sender was started with falling resistance and
SNB L0 displayed during custom setup       Fuel sender resistance is lower than expected.       Fuel sender resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.         PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       If no fuel sender is being used, set the fuel sender	custom setup	expected.	now the resistance has risen. Correct fuel position
SNIL D displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTIONEEE is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.For water temp sender, set the fuel sender			or start custom programming over by turning off
SNB LD displayed during custom setupFuel sender resistance is lower than expected.Fuel sender was started with rising resistance and now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTIONEEE is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.For water temp sender, set the fuel sender			key.
custom setupexpected.now the resistance has fallen. Correct fuel position or start custom programming over by turning off key.PROBLEMCAUSESOLUTION <i>EEE</i> is displayed in fuel, oil, or water displayNo sender connected, or incorrect sender selected.Check proper connection to sender. Check for broken or pinched sensor wires.For water temp sender, check for good ground and remove any sealant tape on threads of sender.For water temp sender, check for good ground and remove any sealant tape on threads of sender.	5NI LO displayed during	Fuel sender resistance is lower than	Fuel sender was started with rising resistance and
PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       If no fuel sender is being used, set the fuel sender	custom setup	expected.	now the resistance has fallen. Correct fuel position
PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       For water is being used, set the fuel sender			or start custom programming over by turning off
PROBLEM       CAUSE       SOLUTION <i>EEE</i> is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       For fuel sender is being used, set the fuel sender			key.
PROBLEM       CAUSE       SOLUTION         EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender selected.       Check proper connection to sender. Check for broken or pinched sensor wires.         For water temp sender, check for good ground and remove any sealant tape on threads of sender.       If no fuel sender is being used, set the fuel sender		041105	
EEE is displayed in fuel, oil, or water display       No sender connected, or incorrect sender.       Check proper connection to sender. Check for broken or pinched sensor wires.         or water display       sender selected.       For water temp sender, check for good ground and remove any sealant tape on threads of sender.         If no fuel sender is being used, set the fuel sender       If no fuel sender is being used, set the fuel sender	PROBLEM	CAUSE	SOLUTION
or water display sender selected. broken or pinched sensor wires. For water temp sender, check for good ground and remove any sealant tape on threads of sender. If no fuel sender is being used, set the fuel sender	EEE is displayed in fuel, oil,	No sender connected, or incorrect	Check proper connection to sender. Check for
For water temp sender, check for good ground and remove any sealant tape on threads of sender. If no fuel sender is being used, set the fuel sender	or water display	sender selected.	broken or pinched sensor wires.
and remove any sealant tape on threads of sender.			For water temp conder, shock for good ground
If no fuel sender is being used, set the fuel sender			and remove any sealent tape on threads of
If no fuel sender is being used, set the fuel sender			and remove any sealant tape on threads of
If no fuel sender is being used, set the fuel sender			Sender.
			If no fuel sender is being used, set the fuel sender
option to off in setup. This will blank out the fuel			option to off in setup. This will blank out the fuel
display			display
is displayed in fuel oil Sensor wire is shorted to ground Check sensor wire harness for correct connection	is displayed in fuel oil	Sensor wire is shorted to around	Check sensor wire harness for correct connection
or water display	or water displayed in idel, of		to sensor. Check for pinched or broken sensor
wire harness.	or water display.		wire harness.
SERVICE DUE is scrolled One of the countdown service meters Perform service and reset service meter by	SERVICE DUE is scrolled	One of the countdown service meters	Perform service and reset service meter by
in the message center has reached zero holding right switch when service meter is	in the message center	has reached zero	holding right switch when service meter is
displayed. If service meter operation is not	<b>3</b>		displayed. If service meter operation is not
desired, disable service meter by setting to NFF in			desired, disable service meter by setting to RFF in
			the setup menu.

#### 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.



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