

**OWNER'S MANUAL SUPPLEMENT
2000 XPEDITION 425
PN 9914929**



IMPORTANT: This is a supplement to your owner's manual. This information should remain with your owner's manual at all times.

Starting the Engine

The engine can only be started with the transmission in neutral.

Turn the key to "on" and ensure the stop switch is in the run position.

The neutral indicator light should be on. If it is not, shift the foot pedal down (or up and down, if in Reverse) to find neutral. Refer to the gear shift pedal illustrated on this page.

Once the vehicle is in neutral, start the engine by engaging the start button.

Gear Shift Control

Gear Shift Pedal

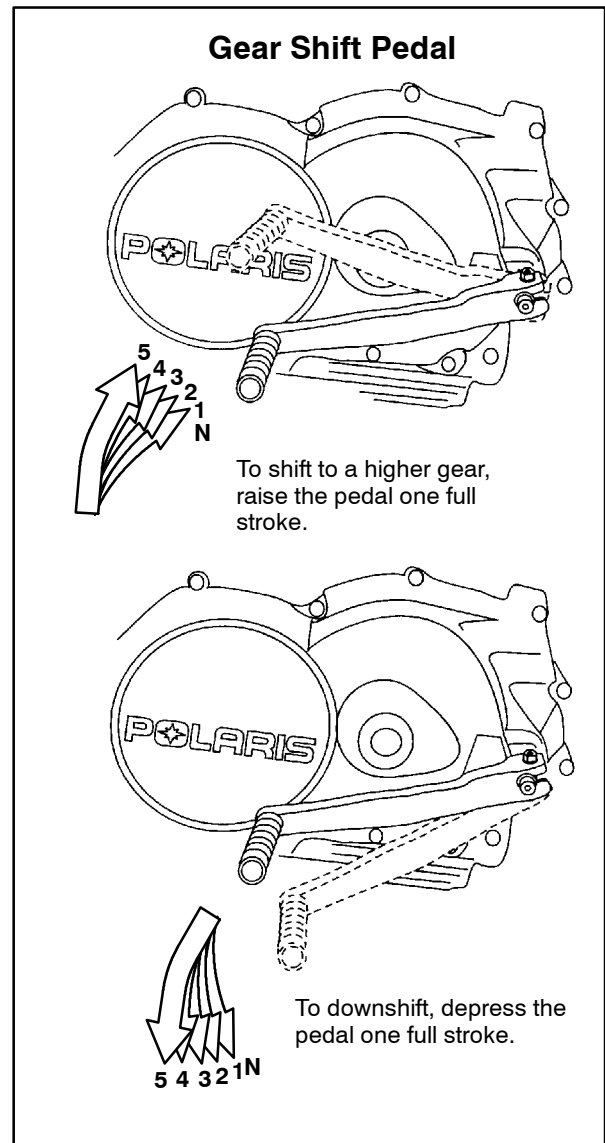
The gear shift pedal is above the left floorboard. One full stroke of the pedal shifts the transmission to the next higher or lower gear in the shifting sequence. The pedal automatically returns to the horizontal position when released.

The Xpedition has five forward gears (1, 2, 3, 4, and 5). To upshift to a higher gear, put the toe of your boot under the gear shift pedal and raise the pedal one full stroke. To downshift, step on the gear shift pedal and depress the pedal one full stroke.

Shifting Gears

Start the engine and let it warm up, follow this procedure:

1. With the transmission in neutral, hold the brake lever.
2. With the throttle closed, raise the gear shift pedal one full stroke to shift into first gear.
3. Release the brake lever and increase engine speed by gradually opening the throttle.
4. When speed increases, release the throttle and shift to 2nd gear by raising the gear shift pedal one full stroke.
5. Repeat sequence 4. to progressively upshift to 3rd, 4th and 5th (top) gear.
6. To downshift, reverse sequence 4. Remember to release the throttle each time you shift to the next lower gear.



WARNING

POTENTIAL HAZARD

Shifting gears without releasing the throttle.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Always release the throttle when shifting gears.

Shifting to Reverse

With the ATV running and in neutral, hold the brake lever and push the Reverse/Override button on the LH control. Depress the gear shift pedal one stroke. The reverse indicator light will come on. Slowly release the brake lever and press throttle control lightly. See Owner's manual page for reverse operation.

Shifting From Reverse to Forward

Be sure machine is completely stopped. Hold the brake lever, raise gear shift pedal one full stroke to engage forward gear. **NOTE:** neutral is bypassed when shifting from reverse to 1st gear. To engage neutral, depress gear shift pedal one full stroke from the 1st gear position.

To Decelerate

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be certain the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

WARNING

POTENTIAL HAZARD

Engaging a lower gear when the engine speed is too high.

WHAT CAN HAPPEN

The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

HOW TO AVOID THE HAZARD

Make certain the engine has sufficiently slowed before shifting to a lower gear.

Specifications


Xpedition 425		
C A P A C I T I E S	Body Style	IV
	Gross Vehicle Weight	1135 lbs.
	Fuel Capacity	4 gallons
	Engine Oil	5.5 quarts
	Front Rack (Maximum - Capacity)	90 Lbs.
	Rear Rack	180 Lbs.
	Tongue Weight	30 lbs.
	Tow Hitch	Standard
	Tow Capacity	850 lbs.
	Turn Radius	65"
	Ground Clearance	7.25"
	Height	47"
	Length	81"
	Seat Height	34"
	Weight	647 lbs.
	Wheel Base	49.75"
Width	46"	
D R I V E S Y S T E M	Drive System Type	Shaft
	Shift Type	Manual 5 Speed / Reverse
	Front Drive (ratio)	3.7/1
	Final Drive (ratio)	3.1/1
	Center Drive (ratio)	Not Applicable
	Drive Chain	Not Applicable
T I R E S	Front Tire	25 x 8 - 12
	Rear Tire	25 x 11 - 10
	Tire Pressure (front)	4 psi
	Tire Pressure (rear)	3 psi

Xpedition 425		
S U S P	Front Susp. - Mac Strut	6.7"
	Rear Susp. - Progressive Rate Swing Arm	6.5"
	Shock Adjustment	CAM
B R A K E S	Front Brake	Hydraulic
	Rear Brake	Hydraulic
	Park Brake	Hydraulic
	Auxiliary Brake	Hydraulic Foot Brake
E N G I N E & C O O L I N G	Engine Model Number	EH42PLE03
	Engine Type	4 Stroke, Single Cycle
	Lubrication	Wet Sump
	Bore x Stroke	87.9 x 70
	Displacement	425
	Compression Ratio	9.2:1
	Engine Cooling	Liquid cooled with fan assist
	Alternator Output (watts)	200 Watts
	Carburetion	34mm Mikuni (CV Type)
	Main Jet	150
	Pilot Jet	42.5
	Needle Jet	P-8
	Cutaway	Not Applicable
	Pilot Screw	2 5/8
	Jet Needle	4HB41-3
	Ignition	CDI
	Timing	30° BTDC @ 3500 rpm
Spark Plug Gap	0.7 mm / .028 in	
Spark Plug Type	NGK BKR5ES	
Exhaust	USFS Approved	
L I G H T S	Headlight (grille)	30 / 30
	Taillight (watts)	8.26
	Brake Light (watts)	26.9

Xpedition 425		
F E A T U R E S	3-Point Hitch	Accessory
	Battery	Standard
	DC Plug In - Rear	Standard
	DC Socket - Forward	Accessory
	Electric Start	Standard
	High Beam Indicator	Standard
	High Temp Indicator	Standard
	Windshield	Accessory
	Low Oil Light	Not Applicable
	Neutral Indicator	Standard
	Reverse Indicator	Standard
	Speedometer	Standard
	Tool Kit	Standard


**1999 Xpedition 425
(Engine - EHPLE03
Carburetor Jetting**

Altitude	Ambient Temperature	Below 0°F (Below -18°C)	0° to 40°F (-18°C to +5°C)	+40° to +80°F (+5°C to +26°C)	+80°F & Above (+26°C & Above)
Meters (Feet)	0-900 (0-3000)	162.5	157.5	150	145
	900-1800 (3000-6000)	157.5	152.5	147.5	140
	1800-2700 (6000-9000)	155	147.5	142.5	137.5
	2700-3700 (9000-12000)	150	142.5	137.5	132.5

 - Pilot screw in 1/2 turn

Gear	Ratio
1	4.182
2	2.562
3	1.522
4	1.036
5	0.758
Reverse	4.484
Primary	2.406
Secondary (at chain)	1.333
Secondary (at bevel drive)	1.313

The following decal replaces the decal found on page 6 of your Owner's Manual.

 **WARNING**

READ AND UNDERSTAND WARNINGS AND OWNER'S MANUAL BEFORE OPERATION. SEVERE INJURY OR DEATH CAN RESULT FROM IGNORING WARNINGS OR IMPROPER USE. IF YOU DO NOT HAVE THE OWNER'S MANUAL FOR THIS VEHICLE. CALL 1-800-342-3764 TO HAVE ONE PROVIDED AT NO EXTRA CHARGE.

- TO REDUCE TIPOVER RISK, BE ESPECIALLY CAREFUL WHEN ENCOUNTERING OBSTACLES AND SLOPES, WHEN BRAKING ON HILLS OR DURING TURNS.
- KEEP FEET ON FOOTRESTS AT ALL TIMES.
- HILL CLIMBING IS DANGEROUS, and should be attempted only by experienced operators. Start on shallow slopes and practice procedures described in Owner's Manual before trying steeper terrain. Some hills are too steep to safely stop or recover from an unsuccessful climbing attempt. Effectiveness of brakes is significantly reduced on hills. \angle^{25°

Never operate this ATV on grades steeper than 25 degrees . If vehicle slides backwards down hill, apply hand brakes with gradual, even pressure to avoid flipover. Never open throttle suddenly as flipover may result.

- REDUCE SPEED when operating this vehicle on rough or hilly terrain, or when carrying cargo on the racks.
- REVERSE OPERATION CAN BE DANGEROUS even at low speeds. Steering control becomes difficult. When backing up, proceed slowly and apply hand brakes carefully; aggressive braking may result in flipover. Avoid backing downhill. Avoid turning at sharp angles in reverse.
- USE OVERRIDE FOR REVERSE SPEED LIMITER WITH CAUTION; It allows full engine power and can result in excessive speeds. Never activate override button while throttle is open, as loss of control may result.
- STOPPING DISTANCE MAY INCREASE with wet brakes or on wet surfaces.
- AUXILIARY FOOT BRAKE: The right foot auxiliary brake pedal operates the rear brake only. When backing up or when operating on hills, avoid sudden use of the auxiliary brake; aggressive braking may result in flipover.
- PARK BRAKE MAY RELAX WHEN USED FOR LONG PERIODS. When parking on grades, leave the gear shift in forward and don't leave brake engaged for more than 5 minutes.
- VEHICLE DESIGNED MAINLY FOR WARM WEATHER USE. Throttle linkage and brakes may stick if operated in freezing weather, causing loss of control. Dirt, mud, water, or other contaminants can also affect operation of controls. Check both frequently.
- ENGINE SHUT OFF SWITCH is available for use in event of throttle failure or other emergency when engine shut off is desired.
- NEVER PERMIT A GUEST TO OPERATE THIS ATV unless the guest has read the Owner's Manual and all labels, and has completed a certified training course.

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1999 EXPEDITION 425

WIRES ARE REPRESENTED BY SOLID OR DASHED LINES TO SIMPLIFY TRACING IN DIAGRAM.

JB 9-17-98

△ = ENGINE GROUND

□ = CHASSIS GROUND

○ = SPARK PLUG

○ = SWITCH NORMALLY CLOSED

○ = SWITCH NORMALLY OPEN

○ = NO COLOR WIRES ARE SHOWN WITH

GRN = GREEN

BRN = BROWN

BLU = BLUE

YEL = YELLOW

OR = ORANGE

W = WHITE

GRN/W = GREEN/WHITE

BLU/W = BLUE/WHITE

OR/W = ORANGE/WHITE

W/Y = WHITE/YELLOW

W/B = WHITE/BROWN

W/R = WHITE/RED

W/BK = WHITE/BLACK

W/BLU = WHITE/BLUE

W/GRN = WHITE/GREEN

W/BRN = WHITE/BROWN

W/BLK = WHITE/BLACK

W/RED = WHITE/RED

W/GRN = WHITE/GREEN

W/BLU = WHITE/BLUE

W/OR = WHITE/ORANGE

W/YEL = WHITE/YELLOW

W/BLK = WHITE/BLACK

W/BRN = WHITE/BROWN

W/GRN = WHITE/GREEN

W/BLU = WHITE/BLUE

W/OR = WHITE/ORANGE

W/YEL = WHITE/YELLOW

W/BLK = WHITE/BLACK

W/BRN = WHITE/BROWN

W/GRN = WHITE/GREEN

W/BLU = WHITE/BLUE

W/OR = WHITE/ORANGE

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W/OR = WHITE/ORANGE

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W/BLK = WHITE/BLACK

W/BRN = WHITE/BROWN

W/GRN = WHITE/GREEN

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RESISTANCES (±20% @ 68°F/20°C)

CHARGE COIL	GRN TO BLK/R	446 OHMS
TRIGGER COIL	GRN TO R	3.2 OHMS
BATTERY CHARGE COIL	GRN TO GROUND	NO CONNECTION
IGNITION COIL	W TO W/R	87 OHMS
	GRN TO GROUND	NO CONNECTION
	Y TO Y/BRN	6.17 OHMS
	Y/R TO Y/BRN	0.17 OHMS
	Y TO GROUND	NO CONNECTION
PRIMARY	6.3 OHMS	
SECONDARY	5300 OHMS PLUS	

