

ski-doo.

© Trademark of Bombardier Inc. and/or its subsidiaries.
© 1999 Bombardier Inc. All rights reserved.
Printed in Canada



BOMBARDIER
RECREATIONAL PRODUCTS

OPERATOR'S GUIDE SUPPLEMENT

**THIS SUPPLEMENT MUST BE USED
IN CONJUNCTION WITH
2000 ZX SERIES OPERATOR'S GUIDE
(P/N 484 100 017)**

2000

520 000 235

MX Zx 440 LC

SAFETY WARNING

Disregarding any of the safety precautions and instructions contained in this *Operator's Guide Supplement*, *Safety Handbook* or on-product labels could cause injury, including the possibility of death.

This *Operator's Guide* handbook should remain with the snowmobile at all time.



BOMBARDIER
Recreational Products
After Sales Service
Sherbrooke (Quebec)
Canada J1L 1W3

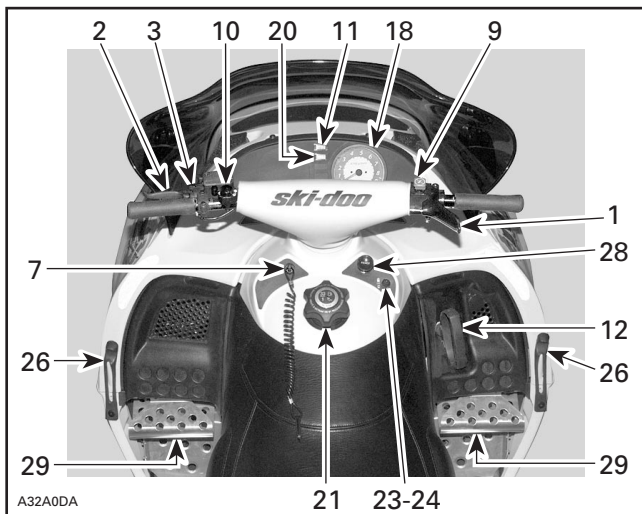
Dear 2000 MX Zx 440 LC owner, all informations on MX Z 600 in the 2000 ZX Series Operator's Guide (P/N 484 100 017) also applies to your MX Zx 440 LC except for the following.

LIMITED WARRANTY VALIDATION

The 2000 MX Zx 440 LC is shipped from the factory with high compression ratio (CR) combustion chamber inserts installed.

To validate limited warranty coverage, low CR combustion chamber inserts must be installed on engine.

CONTROLS/INSTRUMENTS



NOTE: See description or numbered items in 2000 ZX Series Operator's Guide (P/N 484 100 017) except for the following.

7) Tether Cut-Out Switch

Attach tether cord to clothing then snap tether cut-out cap over receptacle before starting engine.

To stop engine, completely pull cap from safety switch.

28) Primer Button

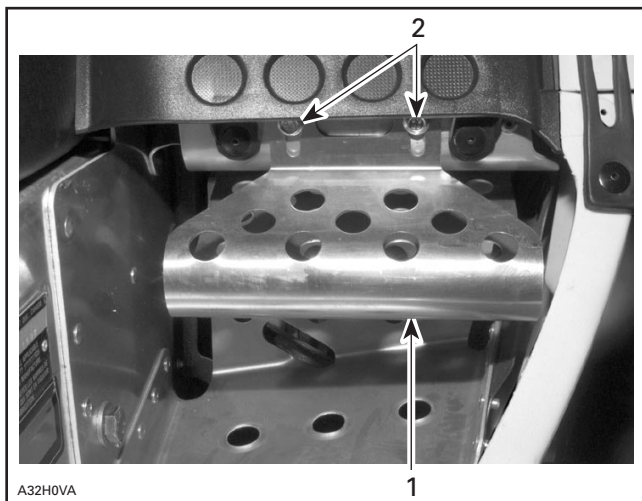
Pull and push button. It is not necessary when engine is warm.

To prime, activate button until a pumping resistance is felt. From this point, pump 2 or 3 times to inject fuel in intake manifold. After priming, ensure that primer button is pushed back.

NOTE: In very cold temperature, it is recommended to rotate primer button 3-4 turns prior to pull it. This will eliminate the possibility of sticking.

29) Adjustable Toeholds

Each toehold can be adjusted to suit driver's preference. Loosen bolts, adjust then, retighten bolts to 10 N•m (89 lbf•in).



RIGHT SIDE SHOWN

1. Toehold
2. After adjustment retighten bolts to 10 N•m (89 lbf•in)

FUEL AND OIL

Recommended Fuel

Use super unleaded gasoline, available from most service stations or gasohol containing less than 10% of ethanol or methanol. The gasoline used must have an octane number $(R + M)/2$ of 91 or higher.

NOTE: In most service station pump octane number corresponds to $(R + M)/2$ octane number.

When snowmobile is used in powder snow condition and/or at temperatures from and below -10°C (14°F), we highly recommend the use of gas line antifreeze in a proportion of 150 mL (5 U.S. oz) of gas line antifreeze added to 40 liters (10-1/2 U.S. gal) of gas.

This precaution is in order to reduce the risk of frozen carburetor(s) which may lead, in certain cases, to high fuel consumption or severe damage to engine.

NOTE: Use only **methyl hydrate free** gas line antifreeze, Kleen-Flo™ or equivalent.

CAUTION: Never experiment with other fuels or fuel ratios. The use of unrecommended fuel can result in snowmobile performance deterioration and damage to critical parts in the fuel system and engine components.

WARNING

Never top up the fuel tank before placing the snowmobile in a warm area. As temperature increases, fuel expands and might overflow. Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the snowmobile.

Recommended Oil

CAUTION: Never mix brands of 2-cycle oil as chemical reaction can cause engine damage. Never use outboard or straight mineral oils. Use only oil that flows at -40°C (-40°F).

Use BOMBARDIER-ROTAX injection oil (P/N 413 802 900 — 12 x 1 L) available from authorized dealer or suitable equivalent. This type of oil will flow at temperatures as low as minus 40°C (-40°F).

OIL/FUEL 33/1



METRIC (SI)

1 L of oil + 33 L of fuel = 33/1

IMPERIAL

35 imp. oz of oil + 7.2 imp. gal of fuel = 33/1

1 L of oil + 7.2 imp. gal of fuel = 33/1

UNITED STATES

34 U.S. oz of oil + 8.8 U.S. gal of fuel = 33/1

1 L of oil + 8.8 U.S. of fuel = 33/1

STARTING PROCEDURE

- Re-check throttle control lever operation.
- Ensure that the emergency cut-out switch is in the ON position.
- Ensure the tether cut-out cap is in position and that the cord is attached to your clothing.
- To prime, activate button until a pumping resistance is felt. From this point, pump 2 or 3 times to inject fuel in intake manifold. After priming, ensure that primer button is pushed back.

NOTE: In very cold temperature, it is recommended to rotate primer button 3-4 turns prior to pull it. This will eliminate the possibility of sticking.

NOTE: Priming is not necessary when engine is warm.

FLUID LEVEL

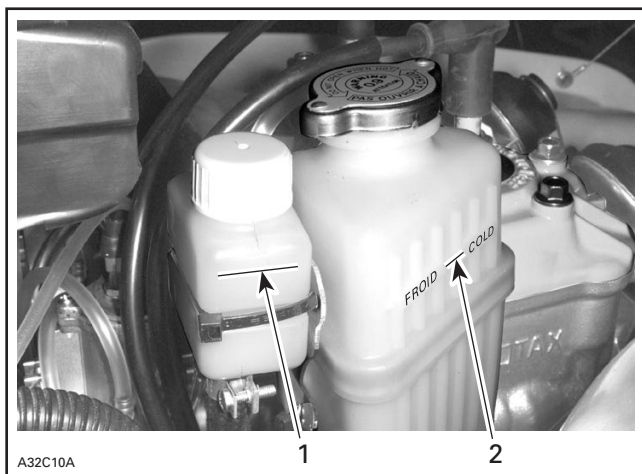
Coolant Pump Shaft Oil Reservoir

Use BOMBARDIER-ROTAX injection oil (P/N 413 802 900) (12 x 1 L).
Fill up to mark.

Coolant Reservoir

Use ethylene-glycol antifreeze for aluminum engines mixed with water (3 parts of antifreeze for 2 parts of water).

Fill up to mark when engine is cold.

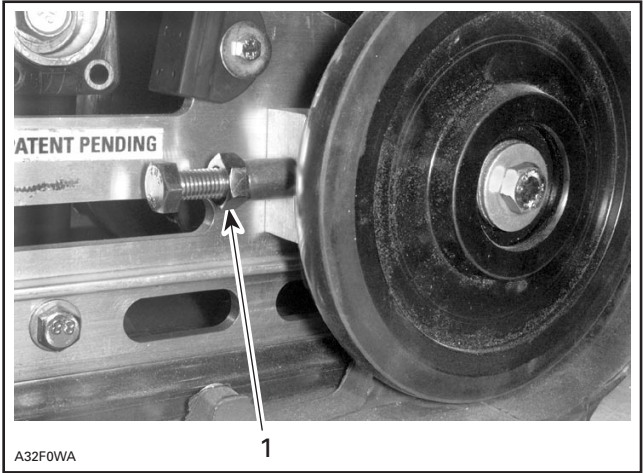


1. Coolant pump shaft oil filling mark
2. Coolant cold level mark

MAINTENANCE

Track Tension and Alignment

Loosen lock nut on both adjustment screws before adjusting track tension and/or alignment. Retighten after adjustments are done.



LEFT SIDE SHOWN

1. Lock nut on adjustment screw

SPECIFICATIONS

GENERAL	MX Zx 440 LC	
Engine		
– Maximum power engine speed	± 50 RPM	8450
Drive belt		
– Number		414 860 700
– New belt width	mm (in)	34.9 (1-3/8)
– Wear limit width	mm (in)	32.5 (1-1/4)
Spark plug		
– Type		NGK BR 9 ES
– Gap	mm (in)	0.45 (.018)
Track		
– Tension	mm (in)	30 to 35 (1-3/16 to 1-3/8) ①
– Alignment		②
FLUIDS		
Fuel		
– Type		③
– Tank capacity	L (U.S. gal)	37 (9.86)
Oil (engine)		
– Type		④
– Premix ratio		33/1
Chaincase/Transmission Oil		
– Type		⑤
– Capacity	mL (U.S. oz)	250 (8.5)
Cooling System		
– Type		⑥
– Capacity	L (U.S. oz)	3.5 (118)
Brake System Fluid		
– Type		DOT 4

① Measure gap between slider shoe and bottom inside of track when exerting a downward pull of 7.3 kg (16 lb) to the track.

② Equal distance between edges of track guides and slider shoes.

③ Super unleaded gasoline with a minimum octane number of 91 (R + M)/2.

④ BOMBARDIER-ROTAX injection oil (P/N 413 809 900) (12 x 1 L).

⑤ Bombardier synthetic chaincase oil (P/N 413 803 300).

⑥ Ethylene-glycol antifreeze for aluminum engines mixed with water (3 parts of antifreeze for 2 parts of water).

Bombardier reserves the right at any time to discontinue or change specifications, designs features, models, prices or equipment without incurring obligation.