

**SUPPLEMENT
FOR MODEL:**

**SKANDIC^{*}
377R**

**This correction booklet must be used in correlation with
the 1984 Citation 3500 - Skandic 377 operator's manual.
(P/N 414 5071 00)**

**OPERATOR'S
MANUAL**

1984

○ **NOTE:** All informations and instructions regarding the Skandic 377 model contained in the 1984 Citation 3500 - Skandic 377 operator's manual also applied to the Skandic 377R model except those appearing in this booklet.

INDEX

CONTROLS/INSTRUMENTS

Parking brake lever, gear shift lever **2**

LUBRICATION

Drive axle, countershaft support bearing, chaincase oil level **3**

MAINTENANCE

Drive belt removal, brake condition, brake adjustment, brake light switch adjustment, drive chain tension **4**

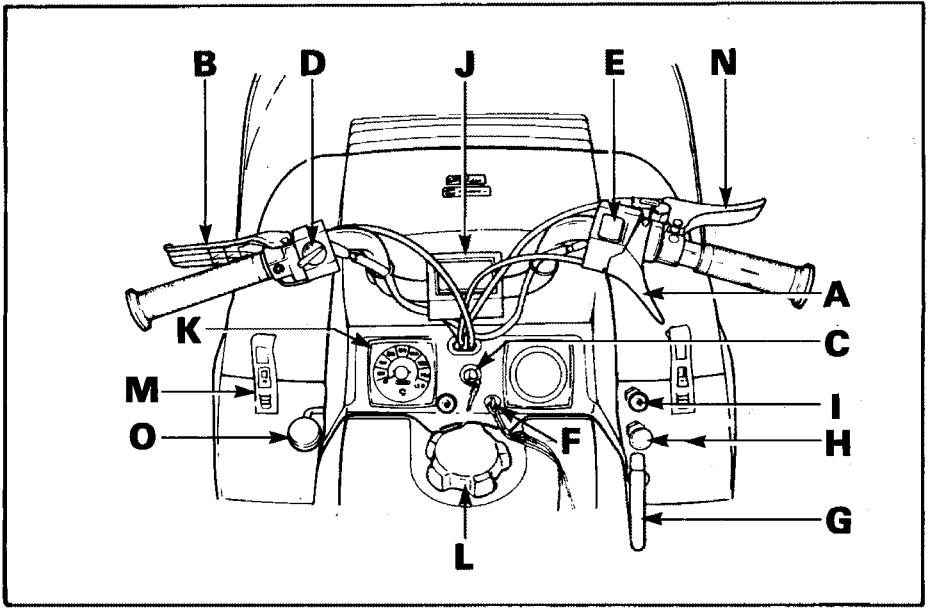
STORAGE

Chaincase **6**

SPECIFICATIONS

7

CONTROLS/INSTRUMENTS

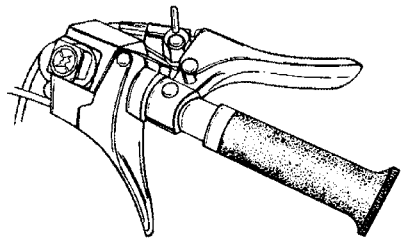


- A) Throttle Control Lever
- B) Brake Control Lever
- C) Ignition/Light Switch
- D) Headlamp Dimmer Switch
- E) Emergency Cut-Out Switch
- F) Tether Cut-Out Switch
- G) Rewind Starter Handle
- H) Primer
- I) Decompressor (Citation 3500 only)
- J) Adjustable Steering Handle
- K) Speedometer (Skandic only)
- L) Fuel Gauge / Tank Cap
- M) Hood Opening
- N) Parking Brake Lever (Skandic R only)
- O) Gear Shift Lever (Skandic R only)

N) Parking Brake Lever

(Skandic 377R only)

Located on right side of steering handle. Parking brake should be used when vehicle is not in use. To engage parking brake, pull handle and turn cam then release a little for proper engagement.



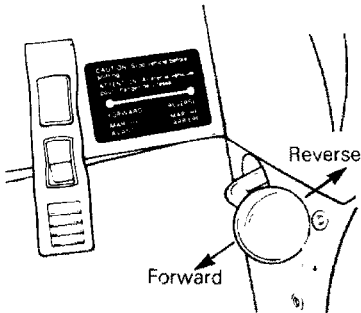
To release parking brake, pull handle to disengage brake mechanism, turn cam, then release handle.

▼ CAUTION: Always release parking brake before riding vehicle. If not, some engine, transmission and brake components could be seriously damaged.

O) Gear Shift Lever

(Skandic 377R only)

At 2 position (forward/reverse) gear shift lever. Pull lever out for forward speed or push in for reverse.



◆ WARNING: This snowmobile is capable of a fast reverse. On first outing, operator should become familiar with this operation by practicing on level ground. Always apply the brake before shifting and ensure the path behind is clear of obstacles or bystanders. Fast reverse, while turning, could result in loss of stability.

▼ CAUTION: This vehicle must be completely stopped before shifting, otherwise, serious transmission damage may occur.

LUBRICATION

Drive Axle

The lubrication of the drive axle ball bearing does not apply to the Skandic 377R model.

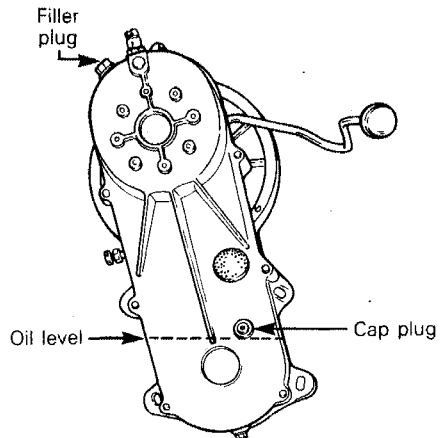
Countershaft Support Bearing

The lubrication of the countershaft support bearing does not apply to the Skandic 377R model.

Chaincase Oil Level

(Skandic 377R only)

Check the oil level by removing the oil level cap plug.



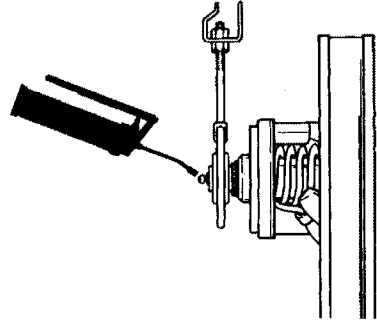
The oil should be level with the bottom of the oil level orifice.

○ **NOTE:** The chaincase oil capacity is approximately 450 ml (16 oz. Imp. - 15 oz. U.S.).

Transfer Shaft

(Skandic 377R only)

Lubricate at grease fitting using low temperature grease.



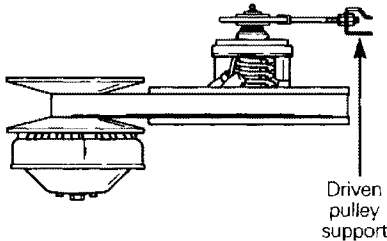
MAINTENANCE

Drive Belt Removal and Installation

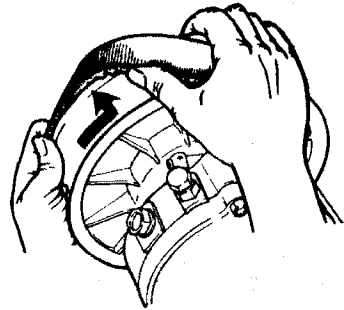
(Skandic 377R only)

◆ **WARNING:** At the removal or installation of the drive belt be careful not to burn yourself on the exhaust system.

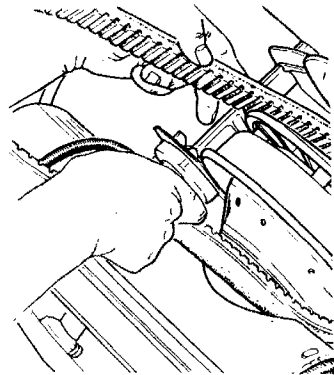
1. Remove the belt guard.
2. Unlock and raise driven pulley support.



3. Open the driven pulley by twisting and pushing the sliding half. Hold in fully open position. Slip slackened belt over the top edge of the sliding half.



4. Slip the belt out from the drive pulley and remove completely from vehicle.



WARNING: Never start or run engine without the drive belt installed. Running an unloaded engine is dangerous.

To install the drive belt, reverse the procedure.

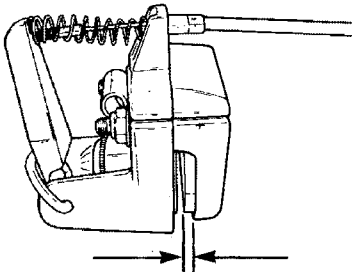
CAUTION: Once belt is installed, be sure to lock driven pulley support.

Brake condition

(Skandic 377R only)

The brake mechanism on your snowmobile is an essential safety device. Keep this mechanism in proper working condition. Above all, do not operate your snowmobile without an effective brake system.

WARNING: Brake pads must be replaced as soon as only 1 mm (1/32") of the fixed lining is still projection out of caliper. Replacement must be performed by an authorized dealer.

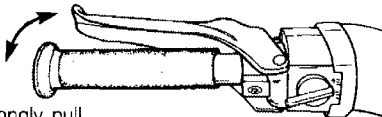


Minimum projection of fixed pad: 1 mm (1/32")

Brake Adjustment

(Skandic 377R only)

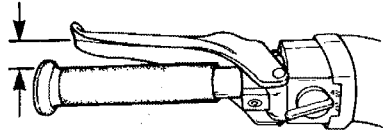
The brake mechanism is a self-adjusting type. If a quicker brake response is desired, strongly pull the brake lever several times, this will actuate the self-adjusting mechanism.



Strongly pull

After the adjustment, brake should apply fully when lever is approximately 13 mm (1/2") from handlebar grip. If not, do not tamper with the brake, contact your servicing dealer.

13 mm (1/2")
approx.

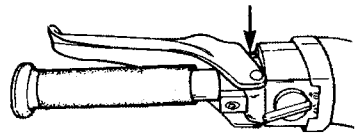


Brake Light Switch Adjustment

(Skandic 377R only)

Brake light switch is not adjustable on this vehicle and is part of the brake lever assembly.

Brake light switch

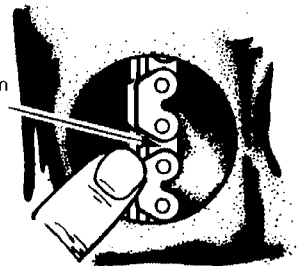


Drive Chain Tension

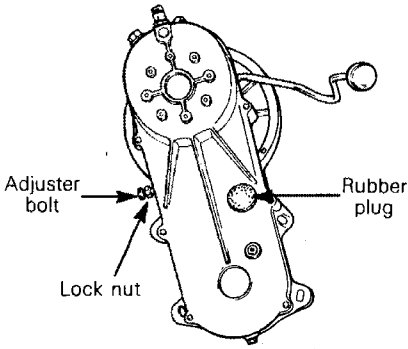
(Skandic 377R only)

Remove rubber plug and check chain tension. Free-play must be from 4 to 7 mm (5/32 to 9/32").

4 to 7 mm
free-play



To adjust, loosen lock nut and turn adjuster bolt to obtain the specified free-play. Tighten lock nut and recheck chain tension.



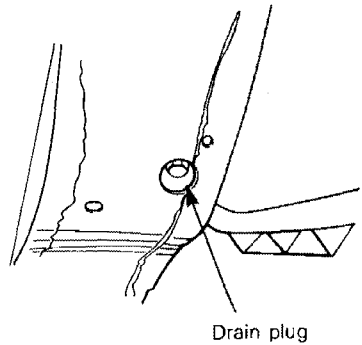
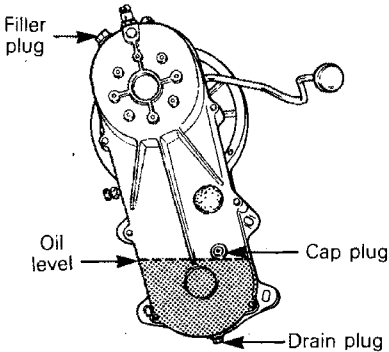
STORAGE

Chaincase

(Skandic 377R only)

Drain the chaincase and refill to proper level, using fresh chaincase oil. To drain, remove the chaincase drain plug.

○ NOTE: Drain plug is accessible through a hole located underneath vehicle.



SPECIFICATIONS

SKANDIC 377R

ENGINE

Type	377
No. of cylinders	2
Bore	62 mm (2.44")
Stroke	61 mm (2.40")
Displacement	368.3 cm ³ (22.47 in ³)
Compression ratio (corrected)	6.9:1
Maximum R.P.M.	7500
Carburetor type	VM 34
Carburetor adjustment:	
— air screw	1 1/2 turn
— idle speed	1800-2000 RPM
Torque:	
— engine head nuts	22 N•m (16 ft-lbs)
— crankcase nuts	M6 9 N•m (6 ft-lbs) M8 22 N•m (16 ft-lbs)
— magneto ring nut	85 N•m (62 ft-lbs)
— fan nut	65 N•m (48 ft-lbs)
— crankcase engine support nuts	38 N•m (27 ft-lbs)
— exhaust manifold bolts	22 N•m (16 ft-lbs)

CHASSIS

Overall length	289 cm (114")
Overall width	96.5 cm (38")
Overall height	108 cm (42 1/2")
Ski stance (center to center)	82 cm (32 1/4")
Ski alignment (toe out)	3.0 mm (1/8")
Torque:	
— steering arm/ski leg bolt	60 N•m (45 ft-lbs)
— steering column/handlebar	26 N•m (19 ft-lbs)
Dry weight	194 kg (428 lbs)
Bearing area	7579 cm ² (1175 in ²)
Ground pressure	2.51 kPa (.364 PSI)

POWER TRAIN

Track:	
— width	38.1 cm (15")
— length	353 cm (139")
— tension	13 mm (1/2") gap between slide shoe and bottom inside of track.
— alignment	Equal distance between edges of track guides and slider shoes.
Chaincase gear ratio	17/40
Drive belt:	
— number	414 3758 00
— Max. width	33.3 mm (1 5/16")
— Min. width	30.1 mm (1 3/16")
Chaincase oil capacity — SI	450 ml
— Imp.	16 oz
— U.S.	15 oz

ELECTRICAL	
Lighting system (output)	160 watts
Bulb:	
— headlamp	60/60 W
— tail/stop	5/21 W
— speedometer	5W
Spark plug	
— type	N.G.K. BR8ES
— gap	.4 mm (.016")
Ignition timing:	
— timing mark (B.T.D.C.) Direct:	2.31 mm (.090") (20°)
stroboscopic timing	6000 tr/mn
FUEL	
Gas type	Regular leaded or unleaded
Fuel tank capacity	
— SI	28.4 liters
— Imp.	6.25 gals
— U.S.	7.5 gals
Premixed fuel/oil	
— type	Bombardier snowmobile injection oil
— ratio	50:1
BRAKE	
Type	Disc self-adjusting
Lining minimum thickness	When only 1 mm (1/32") of fixed pad is projecting out of caliper.
Control lever adjustment	13 mm (1/2") minimum distance from handlebar grip when fully applied.

Bombardier Inc. reserves the right to make changes in design and specifications and/or to make additions to or improvements in its product without imposing any obligation upon itself to install them on its products previously manufactured.