



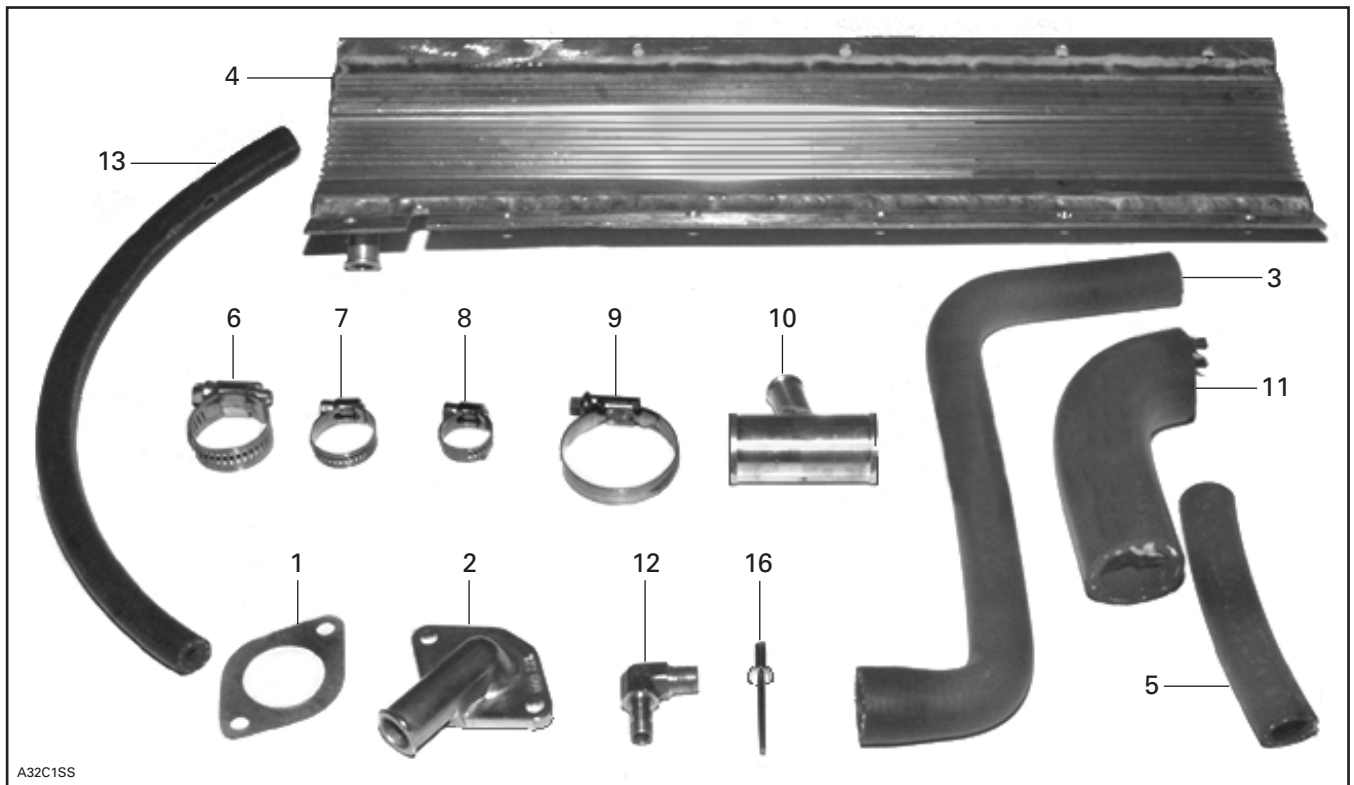
**FRONT RADIATOR KIT
(P/N 861 777 400)**

⚠ WARNING

For safety reasons, this kit must be installed by an authorized Ski-Doo® snowmobile dealer. Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one. This instruction sheet should be given to the purchaser. This kit is designed for specific applicable models only. It is not recommended for units other than those for which it was sold.

NOTE: Installation time is approximately 5.0 hours.

PARTS TO BE INSTALLED



- 1. Gasket
- 2. Exhaust Socket
- 3. S-Shaped Hose
- 4. Radiator
- 5. Hose
- 6. Clamp (14-32)
- 7. Clamp (11-22) (3)
- 8. Clamp (11-17) (2)
- 9. Clamp (25-40) (2)
- 10. T-Fitting
- 11. J-Shaped Hose
- 12. Elbow Fitting
- 13. Hose
- 14. Coolant Reservoir (not illustrated)
- 15. Clamp (17-38) (2) (not illustrated)
- 16. Pop Rivet (11)
- 17. Locking Tie (not illustrated)

PROCEDURE

Vehicle Preparation

Flush coolant system. Refer to the appropriate *Shop Manual* for proper procedure.

Remove MPEM and air box. Close carburetor air intakes with rags.

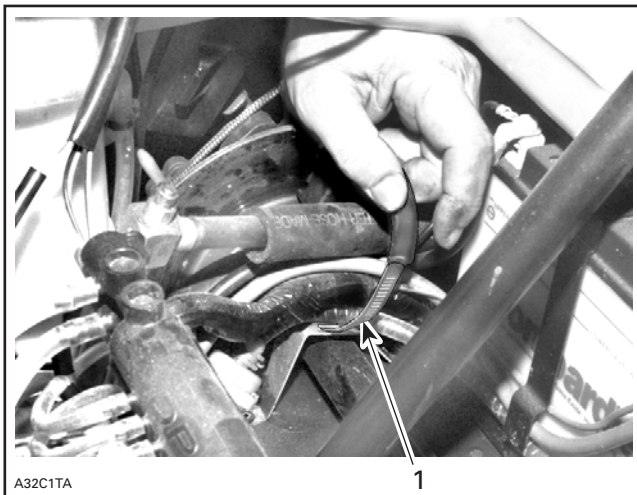
Remove exhaust system (tuned pipe and muffler) in order to free chaincase. Refer to the appropriate *Shop Manual* for proper procedures.

Remove chaincase cover.

Remove track, suspension and drive axle and driven pulley. Refer to *Shop Manual* for proper procedures on each of these items.

Remove coolant reservoir. Keep bolt.

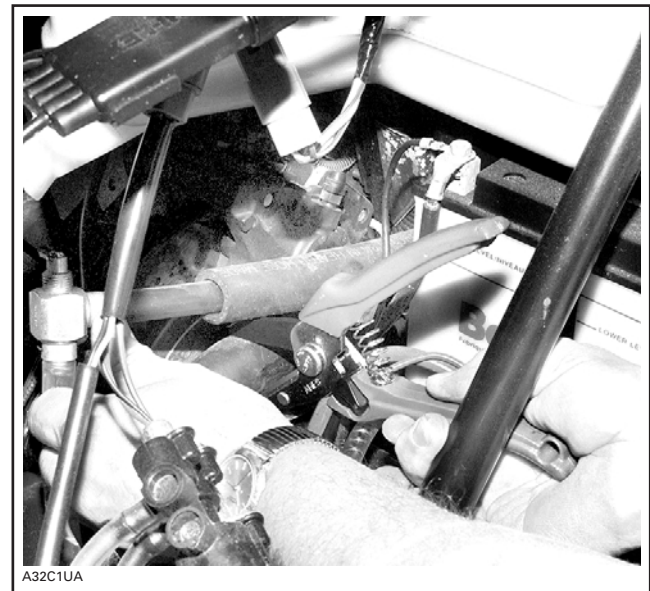
Remove the clamp retaining hoses and electrical wires. Move wires aside (see photo).



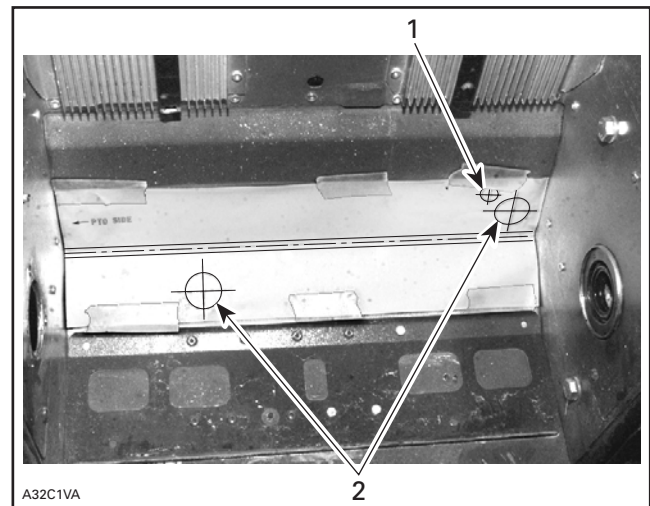
1. Clamp to be removed. Keep for further installation

Radiator Installation

Cut radiator return hose behind knee, flush with support end.



Cut holes in template provided on last page and fold it on dashed line. Using the rivet already installed as a guide, tape template in place in tunnel.

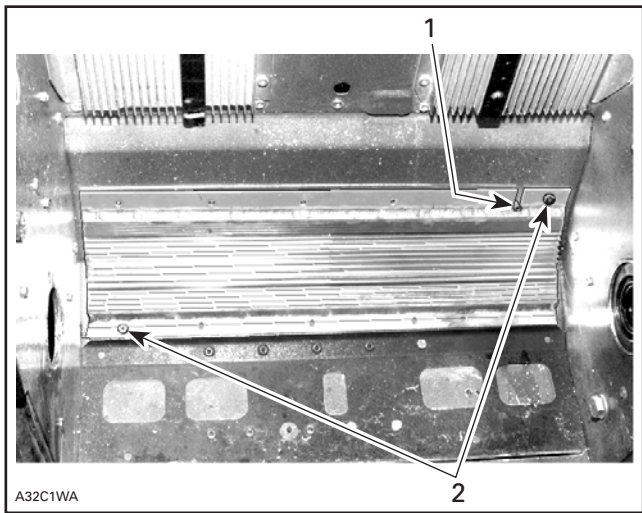


1. Guide
2. Holes to be drilled

Punch holes and drill them with a hole saw. Drill hose holes to 32 mm (1-1/4 in). Burr holes.

Remove template and, using radiator no. 4 as a template, drill rivet holes with a 4.5 mm drill (3/16 in). First, drill and install upper right and lower left corner rivets no. 16 then drill remaining holes.

Secure radiator with rivets no. 16.

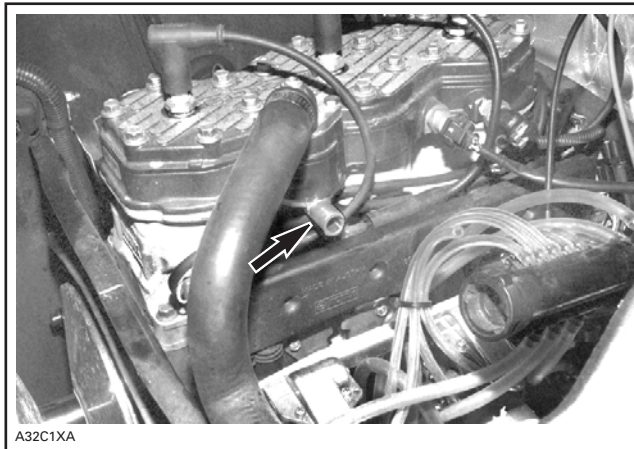


1. Use this rivet as a guide to position radiator
2. Install these rivets first

NOTE: Rivet lower side of radiator from tunnel side of firewall and rivet upper side of radiator from engine side of firewall.

Hoses and Fittings Installation

Remove plate from engine coolant outlet and install new gasket no. 1 and exhaust socket no. 2.



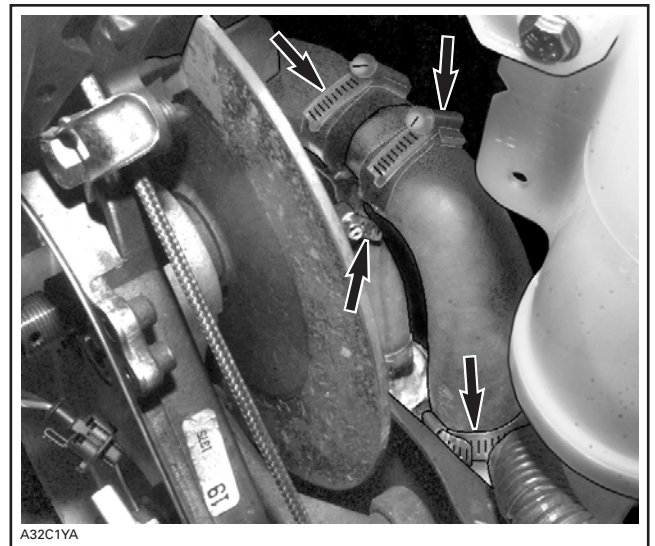
NEW SOCKET INSTALLED

Move carburetors aside.

Connect S-shaped hose no. 3 on exhaust socket no. 2 and front radiator intake. Secure with clamp no. 6 (engine side) and clamp no. 7 (radiator side).

Move back carburetors in place.

Install J-shaped hose no. 11 and hose no. 5 on T-fitting no. 10. Position assembly on front and rear radiator hoses. Secure with clamps no. 9 and a clamp no. 7. See photo.



Install new coolant reservoir no. 14 in place. Secure with bolt taken from old reservoir and elastic nut provided with reservoir.

Secure hoses on reservoir with clamp no. 15 and clamp no. 7.

CAUTION: Make sure that hose no. 5 does not interfere with oil pump lever while reinstalling reservoir.



LEVER MOVEMENT MUST BE FREE

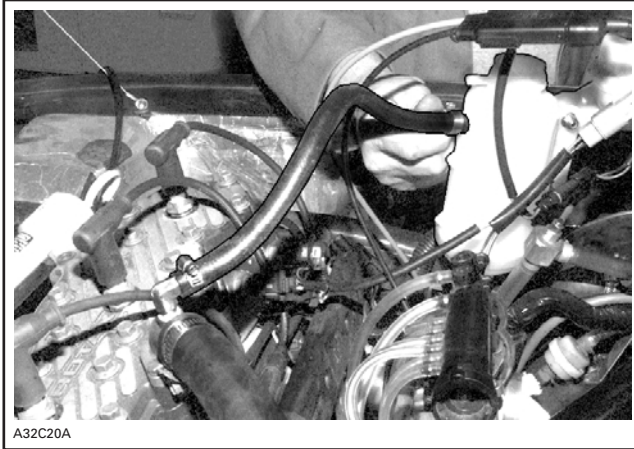
Reinstall clamp around electrical wires and hoses. Use locking tie no. 17 to secure wires.

Air Derivation Hose Installation

Remove set screw from upper exhaust socket.

Install elbow fitting **no. 12** on upper exhaust socket. Prior to installation, coat fitting with Loctite sealant (P/N 413 702 300).

Join elbow fitting **no. 12** with upper nipple on reservoir with hose **no. 13**. Secure hose with clamps **no. 8**.



Final Installation and Verification

WARNING

Torque wrench tightening specifications must be strictly adhered to. Locking devices (e.g. lock tabs, elastic nuts) must be installed or replaced by new ones, where specified. Fasteners with locking agent must be replaced by new ones. If the efficiency of a locking devices is impaired, it must be renewed.

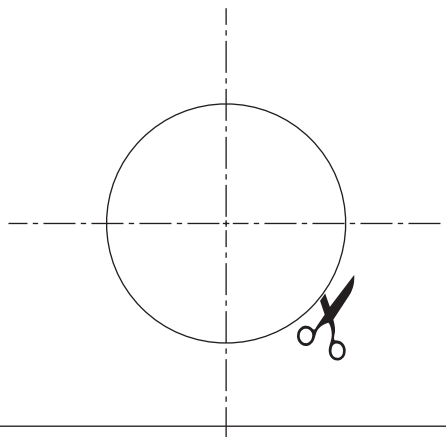
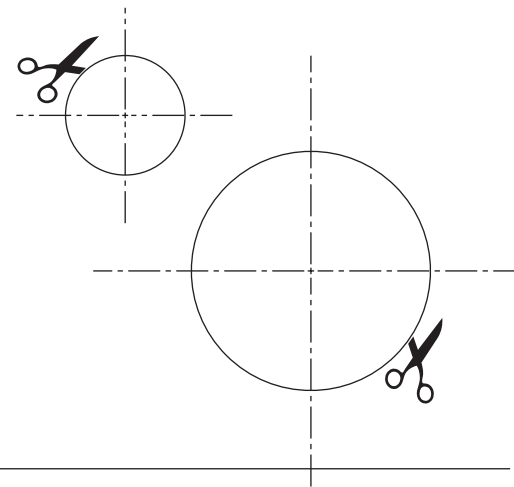
Reinstall all previously removed parts. Refer to *Shop Manual* for appropriate reinstallation procedures:

- carburetors;
- air intake;
- drive axle;
- chaincase;
- exhaust system;
- driven pulley and strap;
- rear suspension and track.

Fill up cooling system and reservoir. Refer to *Shop Manual* for proper procedure.



**← PTO SIDE
CÔTÉ PDM**



861 777 400

1.	420 850 336	Gasket	Joint d'étanchéité
2.	420 922 600	Exhaust Socket	Raccord d'échappement
3.	509 000 083	S-Shaped Hose	Boyau en S
4.	509 000 084	Radiator	Radiateur
5.	276 000 001	Hose	Boyau
6.	408 803 400	Clamp (14-32)	Collier de serrage (14-32)
7.	293 650 037	Clamp (11-22) (3)	Collier de serrage (11-22) (3)
8.	293 650 027	Clamp (11-17) (2)	Collier de serrage (11-17) (2)
9.	293 650 098	Clamp (25-40) (2)	Collier de serrage (25-40) (2)
10.	509 000 089	T-Fitting	Raccord en T
11.	509 000 100	J-Shaped Hose	Boyau en J
12.	293 700 020	Elbow Fitting	Raccord coudé
13.	509 000 093	Hose	Boyau
14.	509 000 079	Coolant Reservoir	Réservoir de liquide de refroidissement
15.	408 800 400	Clamp (17-38) (2)	Collier de serrage (17-38) (2)
16.	390 402 200	Pop Rivet (11)	Rivet (11)
17.	414 115 200	Locking Tie	Attache