

Transaxle Oil & Filter Change Instructions

Brite Striper 7000



4529 Industrial Park Way, Cleveland, OH T 800.877.1500 • Pioneerathletics.com

Brite Striper 7000 Airless Riding Field Line Striper

ALWAYS wear safety goggles or protective eye-wear when operating the unit!

Transaxle service and maintenance

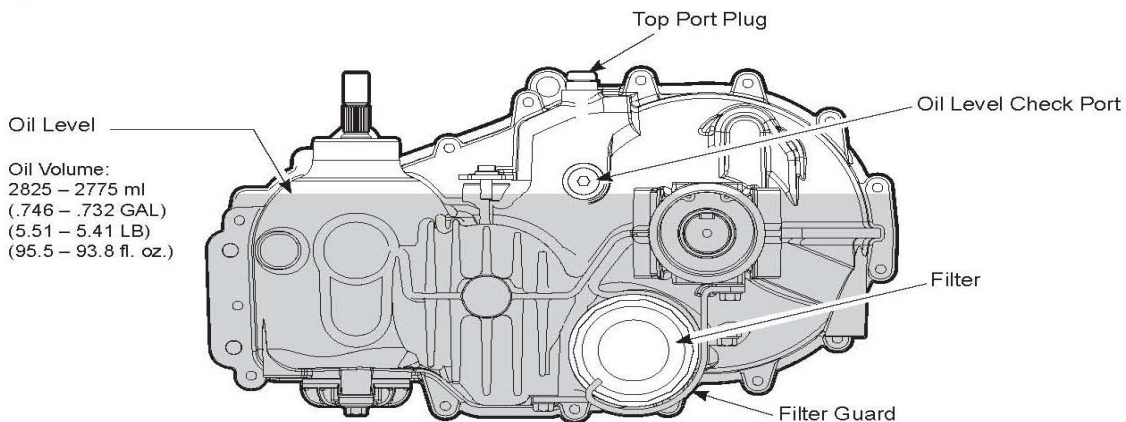
Fluid change

This transaxle is designed with an external filter for ease of maintenance. To ensure constant fluid quality levels and longer life, an initial oil and filter change at 75-100 hours, then every 400 hours thereafter is recommended. The following procedure can be performed with the transaxle installed in the vehicle, and the vehicle on level ground. Apply the bypass valve and lock the vehicle parking brake.

1. Remove the three 1/4" filter guard screws and filter guard. Clean any loose debris from around the perimeter of the filter. See filter and filter guard removal Page 15 of this manual.
2. Place an oil drain pan (12" or more diameter and 8 qt. capacity is optimal) beneath the oil filter. Remove the oil filter from the transaxle.
3. After the oil has drained, wipe the filter base surface off and apply a film of new oil to the gasket of the new replacement filter (Pioneer part number 10003778).
4. Install the new filter by hand, turn 3/4 to one full turn after the filter gasket contacts the filter base surface.
5. Re-install the filter guard with three 1/4" screws (Snug do not over tighten).
6. Drain old oil filters of all free flowing oil prior to disposal. Place used oil in appropriate containers and deliver to an approved recycling collection facility.
7. Remove the oil level check port plug from the transaxle prior to filling with oil. This will allow the transaxle to vent during oil fill.
9. Fill with **Mobil 1 Full Synthetic 15W50 Motor Oil ONLY** through the reservoir bottle under the seat until oil just appears at the bottom of the oil level check port. Install the oil level check port plug into transaxle. Snug do not over tighten.
10. Top off the reservoir with **Mobil 1 Full Synthetic 15W50 Motor Oil ONLY** to the "FULL COLD" mark
11. Proceed to the purge procedure.
12. Top off the reservoir with **Mobil 1 Full Synthetic 15W50 Motor Oil ONLY** to the "FULL COLD" mark.

****Warning: Use ONLY Mobil 1 Full Synthetic 15W50 Motor Oil and Pioneer Filter Part Number 10003778 in the transaxle of this machine.**

Failure to use the correct filter and oil will cause damage to the transaxle and void the warranty.



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Brite Striper 7000 Manual / 3033.0916

Page 15 of 19

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Transaxle service and maintenance

External Maintenance

1. Check oil level in reservoir under seat daily.
2. Inspect the vehicle drive belt, idler pulleys, and idler springs. Insure that no belt slippage can occur. Slippage can cause low input speed to the transaxle.
3. Inspect the vehicle control linkage to the directional control arm on the transaxle. Also insure that the control arm is securely fastened to the trunnion arm of the transaxle.
4. Inspect the bypass mechanism on the transaxle and the vehicle linkage to insure that both actuate and release fully.

Purging

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical that it is purged from the system. Air creates inefficiency because its compression and expansion rate is higher than that of the oil approved for use in hydrostatic drive systems. These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or the oil has been changed. The resulting symptoms in hydrostatic systems may be:

1. Noisy operation.
2. Lack of power or drive after short term operation.
3. High operation temperature and excessive expansion of oil. Before starting, make sure the transaxle is at the proper oil level. If it is not, fill to the specifications outlined in this manual.

Purging Procedures

The following procedures are best performed with the vehicle drive wheels off the ground. Then repeated under normal operating conditions. If this is not possible, then the procedure should be performed in an open area free of any objects or bystanders.

1. Disengage the brake if activated.
2. With the bypass valve open (Transaxle release lever towards rear and over in slot) and the engine running, slowly move the directional control in both forward and reverse directions (5 or 6 times).
3. With the bypass valve closed (Transaxle release lever in forward position) and the engine running, slowly move the directional control in both forward and reverse directions (5 to 6 times). Check the oil level, and add oil as required after stopping the engine.
4. It may be necessary to repeat Steps 2 and 3 until all the air is completely purged from the system. When the transaxle operates at normal noise levels and moves smoothly forward and reverse at normal speeds, then the transaxle is considered purged.

Please call us, if you have any questions regarding any of the above procedures.



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Brite Striper 7000 Manual / 3033.0916

Page 16 of 19