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Title: Engine Attachments Updates

Applies To: TranStar

DESCRIPTION

Repairs are to be made by Vitran unless special arrangements have been made with them.

This article contains the instructions on how to: install a new power steering line and dipstick tube clamps, align CAC Pipes, battery cable routing changes, and verify engine parameters.

MODEL

TranStar

PARTS INFORMATION

Part #	Description	Qty.
120380	Washer Lock 1/4"	1
25483R1	Bolt 1/4 x 1 PHC Type 8	1
25519R1	Nut 1/4 NC Type 8	1
3553742C1	Guide Brk Hose and Cable*2-way	1
3626607C1	Strap Cable Lock 250lb 20in BLK	2
3807534C1	Support	1
446075R91	Dipstick Tube Clamp	1
Provided	Power Steering Clamp	1

WARNING:

Park vehicle on hard flat surface, turn the engine off, set the parking brake, and block the wheels to prevent the vehicle from moving in both directions. Failure to do so may result in property damage, personal injury, and/or death.

WARNING:

If the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over, potentially resulting in property damage, personal injury, and/or death.

WARNING:

Always wear safe eye protection when performing vehicle maintenance. Failure to do so may result in serious eye injury.

REPAIR PROCEDURES

POWER STEERING CLAMP INSTALLATION GUIDE:

1. Park the unit on level ground, set the parking brake and chock the wheels.

2. Open the hood of the vehicle.

3. On the left hand side of the vehicle, near the oil fill tube and oil level gauge (dipstick), inspect the power steering line and dipstick tube.
- The power steering line and the dipstick tube is secured from the factory with a p-clip.
- During your inspection, you may find that the p-clip is installed correctly, broken or completely missing (*Figure 1* and *Figure 2*).

Figure 1

Broken Clamp

Figure 2

Clamp Missing (including dipstick clamp)

Install the two New Clamp:

1. Remove the bolt intended to secure the power steering line and the oil level tube.

2. Using the same bolt, install the new power steering line clamp as well as the new oil level clamp.

NOTE:

The oil level clamp should be mounted on top of the power steering clamp (as shown in the following image).

3. Hold the power steering clamp and dipstick tube while tightening the nut to prevent movement of the clamps (*Figure 3*).

Figure 3

CAC Hose Adjustment:

1. Loosen both clamps and position hose to contact end stops (*Figure 4*).

Figure 4

2. With clamps loosened and each end of the hose positioned to the end stops, clock the elbow of hose up to allow clearance of power steering line and

inner fender (*Figure 5*).

Figure 5

3. With hose positioned and clocked correctly, tighten clamps to 90 to 100 lb-in (10 to 11 N•m) (*Figure 6*).

Figure 6

4. Revised CAC routing (*Figure 7*).

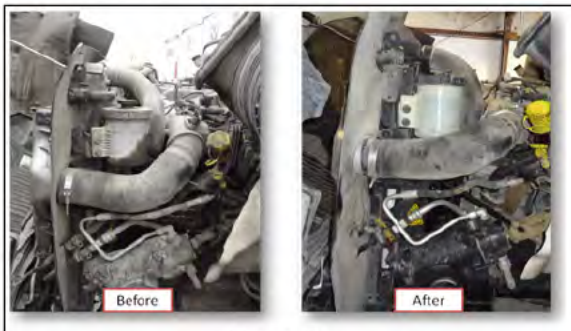


Figure 7

BATTERY BRACKET INSTALLATION GUIDE:

1. Use a creeper to move underneath the vehicle from the front, left side.
   a. The area of inspection is inside the left hand frame rail.
2. Inspect the battery cables and the way they are routed and clipped (Refer to *Figures 8, 9, and 10 for examples*).
   a. Depending on build date, assembly plant, etc; there are a variety of ways the cables may be routed.
   b. The primary area of concern is the spring shackle bolt. This is the area of the frame rail between the front, left steer tire and the fuel tank.

Figure 8

Figure 9

Figure 10

3. The rub point of concern is marked in the following image (*Figure 11*).

Figure 11

4. Some units may have the bracket installed at the factory. Some units will have the cable secured in other ways. If it is determined that the bracket should be installed, please proceed with the following instructions.

5. To access the mounting point for the battery bracket, remove the front, left quarter fender.

   a. This requires the removal of four (4) 13MM bolts. You will need a standard 13MM wrench as well as a deep well socket.

6. With the fender removed, identify the appropriate mounting bolt for the standoff bracket (See *Figure 12*, to identify the proper location).

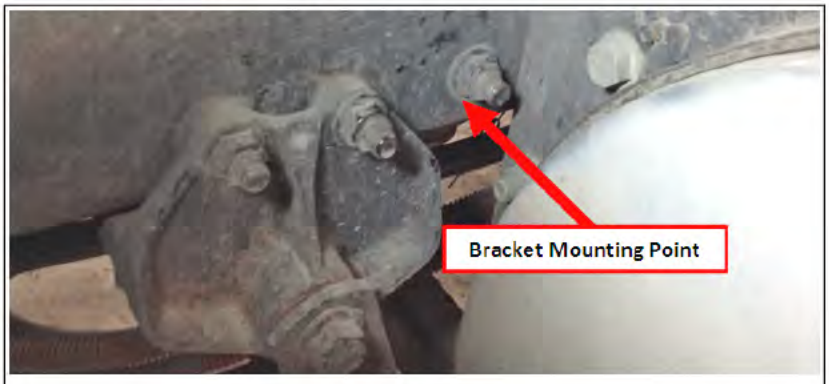


Figure 12

7. Remove the nut from the frame rail bolt.

8. Install the bracket on the outside of the frame rail (*Figure 13*).

   a. The primary, 90-degree bend in the bracket is **NOT** intended to line up flush with the frame rail.

9. Reinstall the nut and torque to 140 ft-lbs.

Figure 13

10. Attach clip (3553742C1), to the newly installed bracket, using bolt (25483R1), lock washer (120380) and nut (25519R1).
11. Use the two straps (3626607C1) to secure the battery cables to the clip (*Figure 14*).
12. Close the hood.

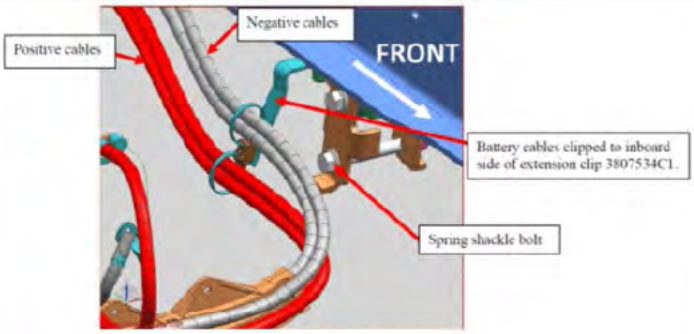
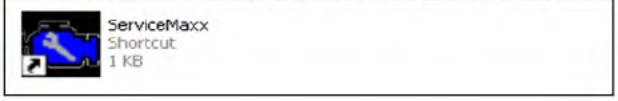


Figure 14

PROGRAM ECM AND VERIFY PARAMETERS:

1. Program Engine ECM using PocketMaxx.
2. After using PocketMaxx to update the ECM calibration we will need to verify an engine parameter.
3. This will require the use of ServiceMaxx:
   a. Connect ServiceMaxx To Engine.
   b. Find Parameter.
   c. Edit Parameter.
   d. Program Engine.
4. Launch ServiceMaxx from the Desktop Icon.
5. For optimal performance, use in conjunction with Java Version 6, Update 27.
6. For support with installation, renewal or related items, please contact the Navistar ServiceMaxx Hotline: (877) 905-6716.

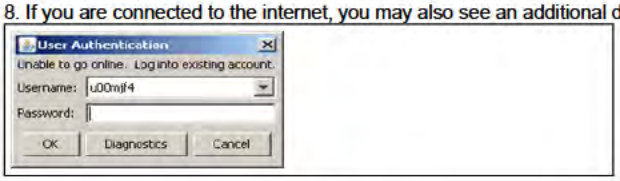


7. When the application is first launched, you will typically be requested to enter a password.

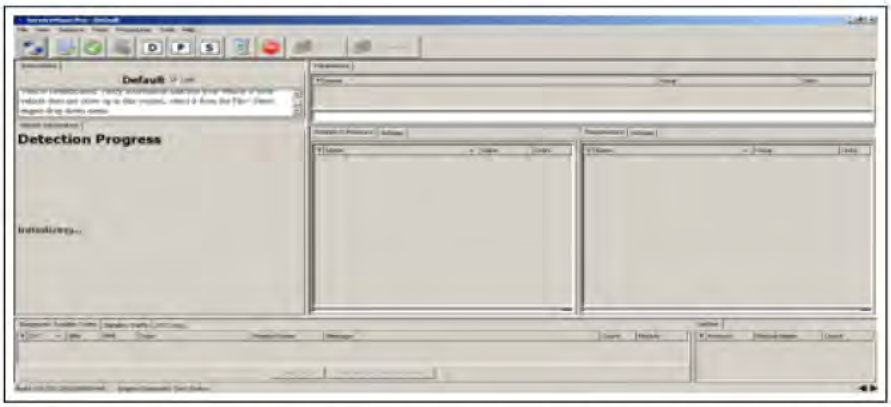
   a. It is NOT necessary to enter a password.

   b. For most situations, click the "Diagnostics" button.

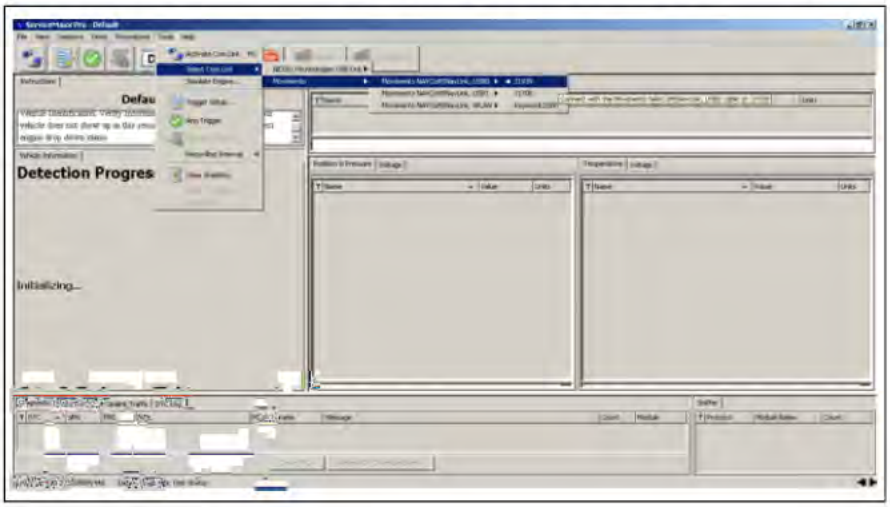
8. If you are connected to the internet, you may also see an additional dialogue box indicating that ServiceMaxx is downloading available updates.

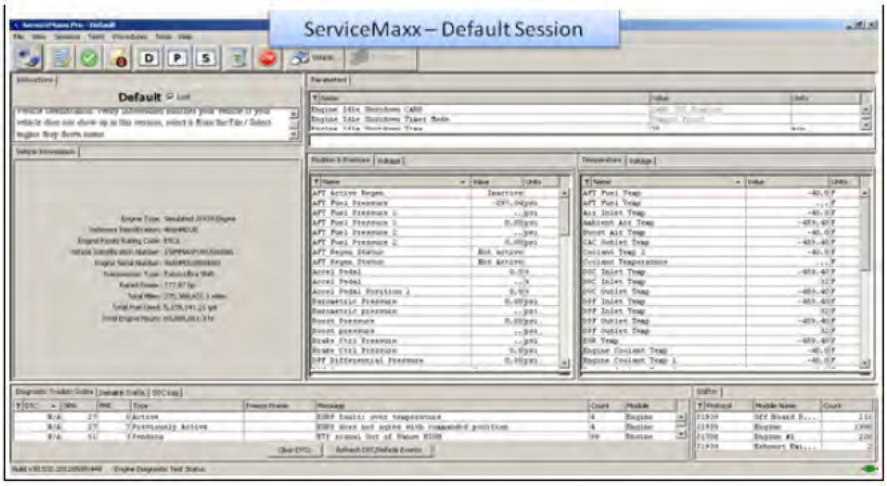


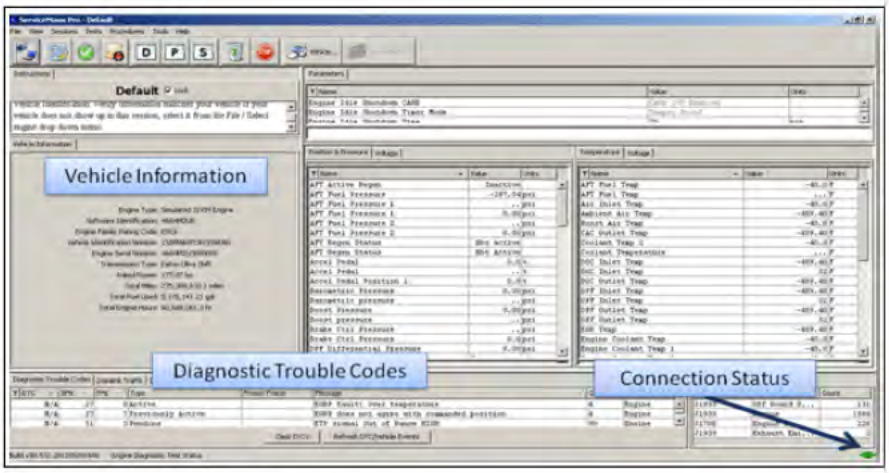
9. The 'Default' session will load. 



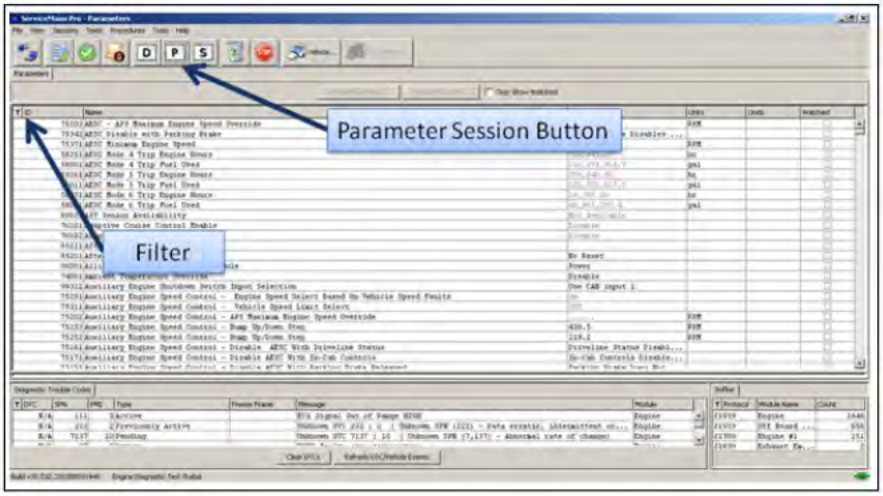
10. The vehicle may connect automatically, or you may be required to choose your datalink type.







11. Parameters Session. 



12. Using the Filter  to find Specific Engine Parameters.

13. Search by category.

14. Search by keyword.

15. Entering '79012' will bring up:

    a. 'Max Engine Speed with VSS Fault'.

    b. This value will likely need to be modified.

16. Changing Engine Parameters:

    a. Filter for Engine Parameter '79012'.

    b. Edit Parameter Value; set to '1,300'.

        i. In this particular case, we are changing 'Max Engine Speed with VSS Fault'.

        ii. This will limit engine RPM to 1,300 if a VSS (Vehicle Speed Sensor) fault is detected.

    c. 'Program Engine'.

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