

STREET SWEEPER, SELF-PROPELLED

This Evaluation Guide for Skills Demonstration is to be used in the evaluation of an operator for certification on the specific piece of equipment stated above. It is intended that this Guide be followed closely during an evaluation, and the operator is expected to demonstrate competency in each of the items listed. However, variances may be made in some situations when, in the opinion of an evaluator, site conditions, operational constraints or the demonstrated skill of the operator requires that an item(s) be deleted or added to ensure a comprehensive evaluation. Documentation of any variance in the evaluation, and documentation of satisfactory completion of the evaluation and subsequent certification is to be made on the appropriate Certification Form.

1. Performs a thorough pre-op inspection and adjustment

- Visually inspects exterior of machine for loose, leaking, hanging, or broken parts
- Enters cab using steps and grab handles for safety (3 point climbing procedure)
- Removes keys from ignition for safety
- Ensures that parking brake is applied
- Ensures that transmission is in neutral or lowest forward gear or reverse, as per policy
- Ensures that battery disconnect is turned off
- Checks that R297g is in the vehicle
- Reviews R297g for prior failures
- Completes R297g correctly (see attached Preventive Maintenance Checklist for relevant items)
- Makes note of deficiencies on EM3; completes EM3 correctly
- Performs general safety checks including unsecured objects
- Inspects the following machine components
 - Carrier Engine
 - * Checks oil, coolant, power steering and window washer levels (and fills as needed)
 - * Checks the radiator and fins for cracks, distortion, debris and any signs of leakage
 - * Checks fan for presence and distortion
 - * Checks air restriction indicator (monometer) and cleans dust valve daily
 - * Checks that oil and fuel filters are in good condition, secured tight and without leaks
 - * Checks batteries for corrosion and to be properly secured
 - * Inspects condition and tightness of belts
 - * Checks turbo charger for leaks and cracks
 - Repeats procedure for pre-op of sweeper engine (upper unit)

- Steering and Suspension
 - * Checks springs and spring hangers for presence and condition
 - * Checks that shocks are properly attached, are not damaged and are not leaking
 - * Inspects pitman arm, drag link and tie rod ends for condition
 - * Checks power steering assist cylinder and steering box for leaks and that it is secured to the frame
 - * Checks tires for tread depth, proper inflation and obvious defects
 - * Checks wheels/rims for tightness, cracks, valve stem alignment, slippage or any damaged, broken or missing parts

- Rear Axle and Suspension
 - * Checks springs and spring hangers for presence and condition
 - * Inspects drive shaft visually for damage, debris or any sign of failure
 - * Checks tires for tread depth, proper inflation and obvious defects
 - * Checks wheels/rims for tightness, cracks, valve stem alignment, slippage or any damaged, broken or missing parts

- Exterior
 - * Checks fuel tank for damage or leaks and fuel levels
 - * Checks lights, warning lights and reflectors are clean and intact, properly attached and operating correctly
 - * Checks exhaust system for presence and condition
 - * Checks main broom pattern
 - ~ Starts rear engine, pushes main broom lever forward and allows broom to run 30 - 45 seconds
 - ~ Retracts main broom and checks that broom pattern on ground is adjusted according to Operator's Manual
 - ~ Adjust gutter brooms according to Operator's Manual
 - * Adjusts drag shoes and center drag brush to be level with pavement
 - * Checks that gutter brooms and main broom are fully in upright position by placing hydraulic lever for each broom in retract position until bypass is heard
 - * Checks that hydrant wrench and hose are on vehicle
 - * Fills water tank from hydrant or other clean water source
 - * Checks that rear side deflectors are adjusted according to Operator's Manual

- Interior
 - * Performs general safety check including unsecured objects
 - * Describes functions of controls
 - * Inspects presence and condition of seat belts and other safety equipment, including horn, backup alarm, charged and secured fire extinguisher, first aid kit and emergency triangles
 - * Inspects for excessive free play in the steering wheel

- * Inspects for 1-1/2" clutch free play
- * Verifies vehicle is safe to operate
- * States all safety warnings for machine

2. Prepares machine for travel and transports machine

- Starts carrier engine
- Raise drag shoe
- Transports machine to work location

3. Sweeps designated work area

- Lower drag shoe
- Starts gutter brooms, main broom and elevator in correct sequence
- Turns on water to spray bar
- Allows elevator to attempt to unjam itself by disengaging elevator lever and moving handle to reverse
- Does not allow water tank to run dry, causing damage to water pump

4. Dumps hopper

- Recognizes when hopper is full
- Retracts brooms, disengages elevator and travels to dump site or location to dump into truck
- Checks for overhead wires and position sweeper on level ground and raise RPM to 1200, then activates hopper
- Activates hopper control lever by pulling it backwards (direct opposite of other levers)
- Installs safety pins and visually checks empty hopper elevator for wire, rope, rags, etc., and if present, removes them
- Checks that hopper is down and elevator is open

5. Shuts down machine, prepares machine for transport

- Parks machine in a safe and secure site
- Applies parking brake
- Checks that gutter brooms and main brooms are fully in upright position by placing hydraulic lever for each broom in retract position until bypass is heard
- Uses proper engine shutdown procedure (Idles machine for 3 - 5 minutes)
- Completes post operational check
- Completes all necessary paperwork (ie., equipment report, R 297g, etc.), if applicable

6. Cleans machine and checks adjustments

- Removes all wire, rope, rags, etc. from top and bottom elevator shafts
- Washes down sweeper with special care to the hopper, elevator and lower elevator shafts (augers)
- Checks and adjusts the main broom and gutter broom pattern
- Adjusts the drag shoes

7. Performs daily/weekly preventive maintenance

- Greases all grease fittings at end of each day as described in Operator's Manual
- Checks gutter broom upper and lower arm, hopper cylinder hydraulic door, right and left pivot arm and right, left hopper cylinder and water pump weekly
- Inspects water strainer daily and cleans as necessary
- Checks air restriction gauge, changes air filter as necessary