

Issued	1993-04
Cancelled	2009-02

Superseded by J2130-1 and  
J2130-2

## Self-Propelled Sweepers and Cleaning Equipment

1. **Scope**—This SAE Standard applies to all self-propelled machines that are designed to clean material from highways, parking lots, and floors in non-residential buildings. Primary methods for removing material can be by mechanical means, pneumatic, washing system, or a combination.
  - 1.1 **Purpose**—To identify self-propelled cleaning equipment, which are grouped into street and industrial sweepers and scrubbers.
  - 1.2 **Rationale**—SAE J2130 has been cancelled and replaced with SAE J2130-1 and SAE J2130-2 to differentiate between two classes of sweepers. SAE J2130-1 covers sweepers with gross vehicle mass greater than 5000 kg. These sweepers are used primarily for road building and maintenance. SAE J2130-2 covers sweepers with gross vehicle mass less than 5000 kg and are used primarily as industrial scrubbers and for side walk maintenance. The separation of the document will facilitate sweepers standards development within ISO TC195 road building equipment.
2. **References**—There are no referenced publications specified herein.
3. **Definitions**
  - 3.1 **Street Sweepers**—Self-propelled machines primarily designed to sweep material from highways, parking lots, construction sites, and road repaving work. These machines can move material to a hopper or other type of container attached to the machine by mechanical or pneumatic means, or by combinations of each.
  - 3.2 **Industrial Sweepers**—Self-propelled or operator-assisted machines used to clean up material inside Industrial and Commercial areas. These machines can be mechanical, pneumatic, or combinations of each with or without floor scrubbing attachments.
  - 3.3 **Industrial Scrubbers**—Self-propelled machines which use a washing system to remove material. This washing system consists of a tank of cleaning solution, a method for applying the cleaning solution to the surface and a collection system to recover the cleaning solution.
  - 3.4 **Combination Industrial Sweepers/Scrubbers**—Self-propelled machines which incorporate both a sweeping and a scrubbing system.
4. **Identification**
  - 4.1 Integral mechanical tricycle configuration sweepers with a maximum transport speed of less than 40 km/h. (See Figure 1).

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

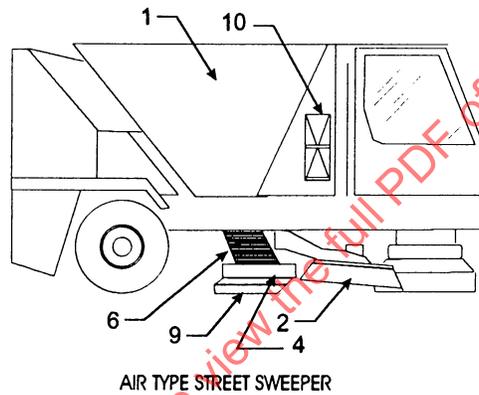
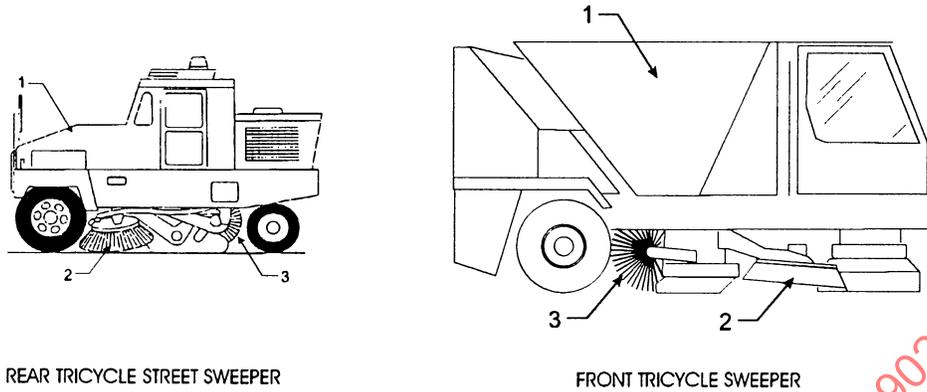
Copyright © 2009 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER:

Tel: 877-606-7323 (inside USA and Canada)  
 Tel: 724-776-4970 (outside USA)  
 Fax: 724-776-0790  
 Email: CustomerService@sae.org  
<http://www.sae.org>

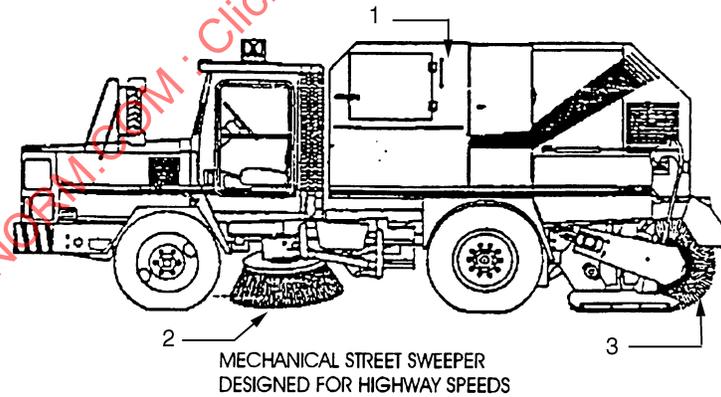
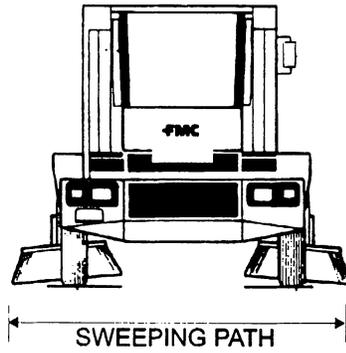
SAE WEB ADDRESS:



- |   |                   |
|---|-------------------|
| 1. Hopper                                   | 6. Vacuum Hose    |
| 2. Gutter Broom                             | 7. Transfer Broom |
| 3. Main Broom                               | 8. Caster Wheel   |
| 4. Pick-up Head                             | 9. Skids          |
| 5. Pick-up Nozzle (If less than Full width) | 10. Fan           |

FIGURE 1—SELF-PROPELLED CLEANING EQUIPMENT—  
REAR TRICYCLE STREET SWEEPER, FRONT TRICYCLE SWEEPER,  
AND AIR TYPE STREET SWEEPER

- 4.1.1 Hoppers can be high dump (being able to dump into refuse container or low dump (being able to dump into refuse container).
- 4.1.2 The machine can be front or rear wheel steer with steering controls located either center, left, right, or both left/right.
- 4.1.3 Material can be placed in the hopper via mechanical or pneumatic means or by combinations of each.
- 4.2 Integral chassis sweepers some of which have a top speed less than 40 km/h and some of which are designed to transport at highway speeds. (See Figure 2).

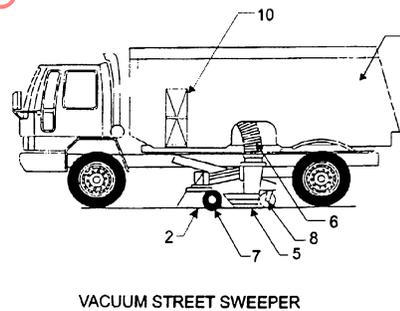
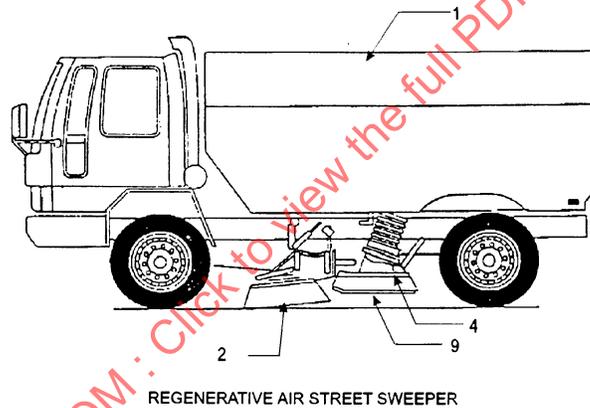
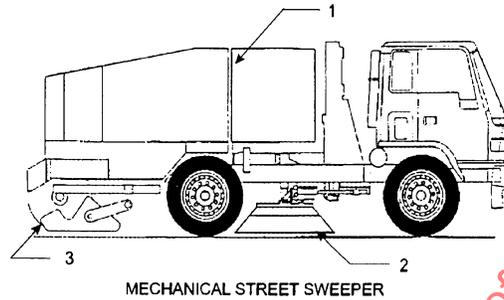


- 1. Hopper
- 2. Gutter Broom
- 3. Main Broom

FIGURE 2—SELF-PROPELLED CLEANING EQUIPMENT—  
VACUUM STREET SWEEPER WITH SPEEDS LESS THAN 40 KM/H  
AND MECHANICAL STREET SWEEPER DESIGNED FOR  
HIGHWAY SPEEDS

SAE J2130 Cancelled FEB2009

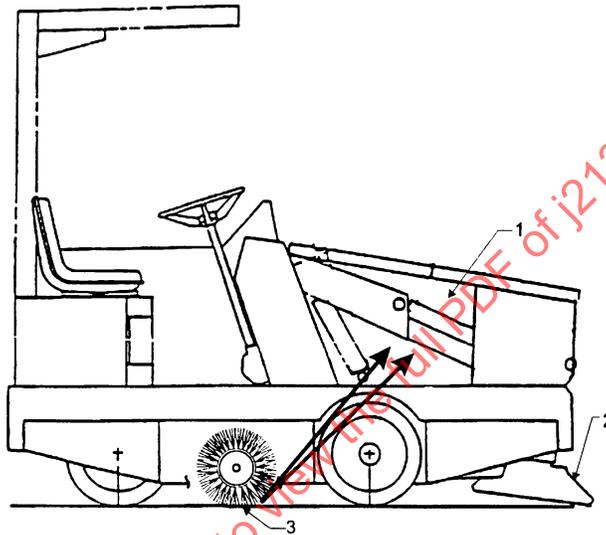
- 4.2.1 Hoppers can be high dump (being able to dump into refuse container) or low dump (being able to dump on the ground only).
- 4.2.2 Steering controls can be located in the center, on the left or right side or both.
- 4.2.3 Material can be placed in the hopper by mechanical or pneumatic means or by combinations of each.
- 4.3 Truck chassis mounted sweepers that are able to transport at highway speeds. (See Figure 3).



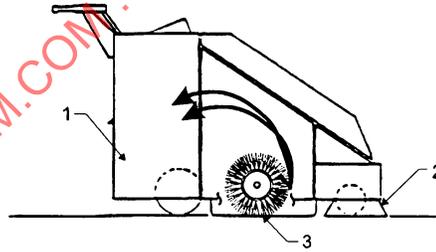
- |   |                   |
|---|-------------------|
| 1. Hopper                                   | 6. Vacuum Hose    |
| 2. Gutter Broom                             | 7. Transfer Broom |
| 3. Main Broom                               | 8. Caster Wheel   |
| 4. Pick-up Head                             | 9. Skids          |
| 5. Pick-up Nozzle (If less than Full width) | 10. Fan           |

FIGURE 3—SELF-PROPELLED CLEANING EQUIPMENT—  
MECHANICAL STREET SWEEPER, REGENERATIVE AIR STREET SWEEPER,  
AND VACUUM STREET SWEEPER

- 4.3.1 Hoppers can be high dump (being able to dump into refuse container) or low dump (being able to dump on the ground only).
- 4.3.2 Steering controls can be located on the left or right side or both.
- 4.3.3 Material can be placed in the hopper by mechanical or pneumatic means, or by combinations of each.
- 4.4 Industrial sweepers are designed to work in buildings, general parking areas, and other off-highway applications with speeds less than 20 km/h. (See Figure 4.) Industrial sweepers can also include walk-behind style sweepers.



DIRECT THROW RIDER INDUSTRIAL SWEEPER



OVER THROW WALKBEHIND INDUSTRIAL SWEEPER

- 1. Hopper
- 2. Side Sweeping Broom
- 3. Main Sweeping Broom

FIGURE 4—SELF-PROPELLED CLEANING EQUIPMENT—  
DIRECT THROW RIDER INDUSTRIAL SWEEPER AND  
OVER THROUGH WALK-BEHIND INDUSTRIAL SWEEPER