

Nomenclature—Hydraulic Backhoes —SAE J326 SEP80

SAE Standard
Completely Revised September 1980

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φ NOMENCLATURE—HYDRAULIC BACKHOES—
SAE J326 SEP80

SAE Standard

Report of the Tractor Technical Committee, approved January 1968, completely revised by the Off-Road Machinery Technical Committee, Subcommittee 25, September 1980. Rationale statement available.

1. **Purpose**—This SAE Standard defines hydraulic backhoes, and the names of major components and parts peculiar to hydraulic backhoes.

2. **Scope**—This SAE Standard includes hydraulic backhoes which have no more than 190 deg of rotational swing, and are mounted on wheel tractors and crawler tractors. Illustrations used are not intended to include all existing commercial machines or to be exact descriptions of any particular machine. The illustrations have been chosen to describe the principles to be used in applying this standard.

3. **Definitions**—For purposes of this standard, hydraulic backhoes are divided into three type classifications dependent on the method of attaching to the machines. The arrangement of backhoe components illustrated is applicable to any of the three types.

Type A Backhoe—A backhoe designed to be installed on a standard

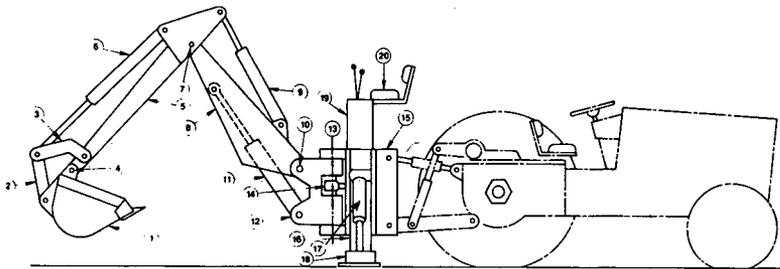
three-point hitch, or equivalent, in which usage¹ is as an alternate implement. (Ref. SAE J715.)

Type B Backhoe—A backhoe designed to be installed on a machine in which usage¹ is a basic function of the machine, but can be readily removed and replaced by other tools or equipment.

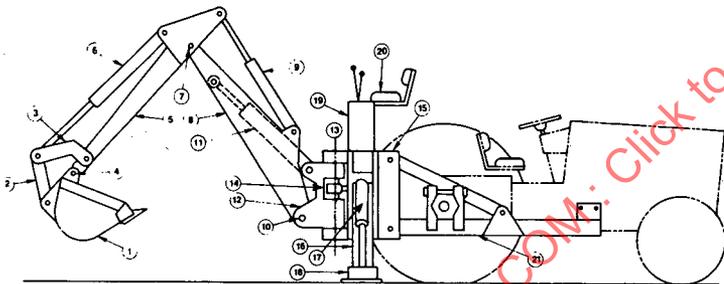
Type C Backhoe—A backhoe designed to be an integral part of the machine, in which usage¹ is a primary function of the machine. Even though the backhoe may be removable, the tractor is not designed to have the backhoe replaced by other tools or equipment.

Backhoe Directional References—The terms *right*, *left*, *front*, or *rear* shall be determined from the position of the operator when seated in the backhoe operating position.

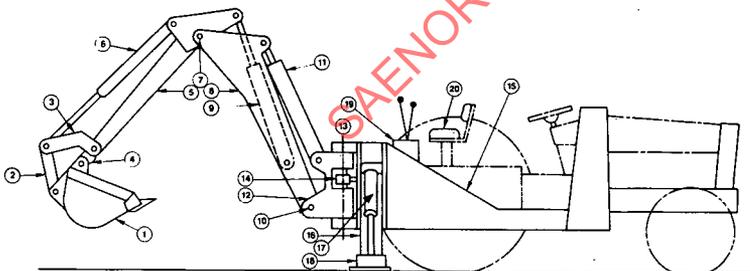
¹End point usage intended by the manufacturers' design objectives.



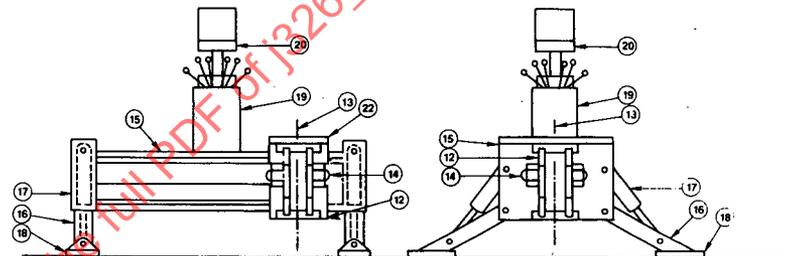
Type A Backhoe



Type B Backhoe

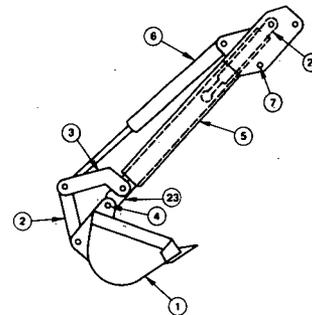


Type C Backhoe



Sideshift Main Frame

Fixed Pivot Main Frame



Extendable Dipperstick

- | | |
|--------------------------------------|---|
| 1. Bucket | 13. Swing Pivot Center Line |
| 2. Bucket Link | 14. Swing Actuator |
| 3. Guide Link | 15. Main Frame |
| 4. Bucket Hinge Pin | 16. Stabilizer (Right or Left) |
| 5. Dipperstick (Extendable or Fixed) | 17. Stabilizer Cylinder (Right or Left) |
| 6. Bucket Cylinder | 18. Stabilizer Pad (Right or Left) |
| 7. Dipperstick Hinge Pin | 19. Control Console |
| 8. Boom | 20. Seat |
| 9. Dipperstick Cylinder | 21. Subframe |
| 10. Boom Hinge Pin | 22. Sideshift Frame (Sliding) |
| 11. Boom Cylinder | 23. Dipperstick Extension |
| 12. Swing Frame | 24. Dipperstick Extension Cylinder |

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