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Identification Terminology and Component Nomenclature Knuckle Boom Log Loader

1. **Scope**—This SAE Recommended Practice includes the types of mounting configurations and the names of major components and parts peculiar to this type of machine.

Illustrations used here are not intended to include all existing commercial machines or to be exactly descriptive of any particular machine.

They have been provided to describe the principles to be used in applying this document.

2. References

- 2.1 **Related Publication**—The following publication is provided for information purposes only and is not a required part of this document.

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1209 JAN85—Identification Terminology of Mobile Forestry Machines

3. Definition

- 3.1 **A Knuckle Boom Log Loader**—A swing-to-load machine with articulated booms, grapple, and supporting structure designed to grab, lift, swing, and place trees or parts of trees.

4. Identification Terminology

4.1 Six different types of mounting configurations are illustrated. (See Figure 1.)

4.2 Five different types of boom configurations are illustrated. (See Figure 2.)

5. **Component Nomenclature**—Figure 2 identifies the major components.

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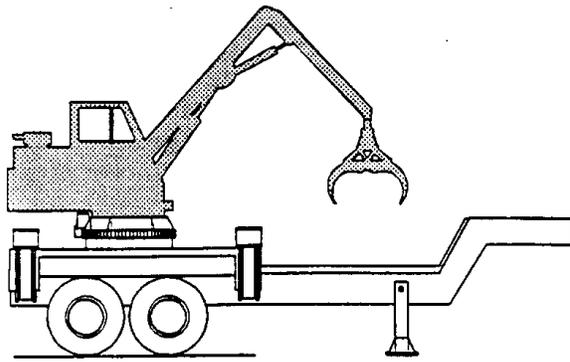
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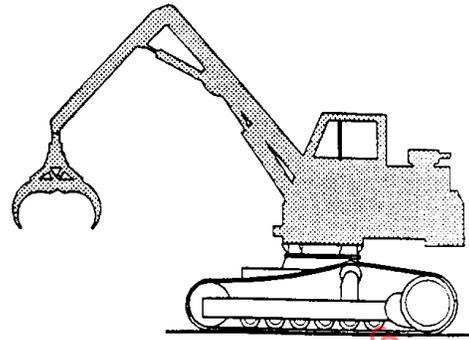
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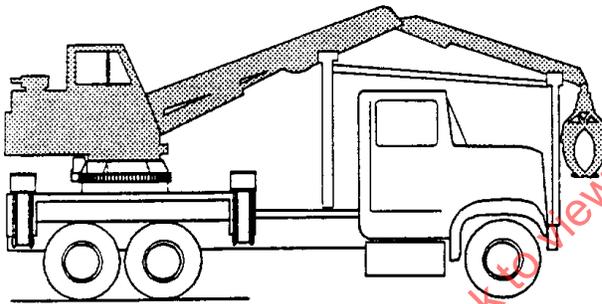
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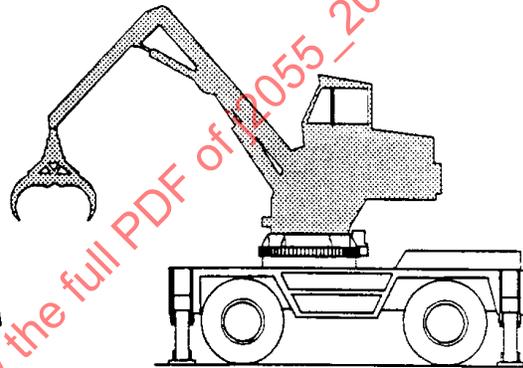
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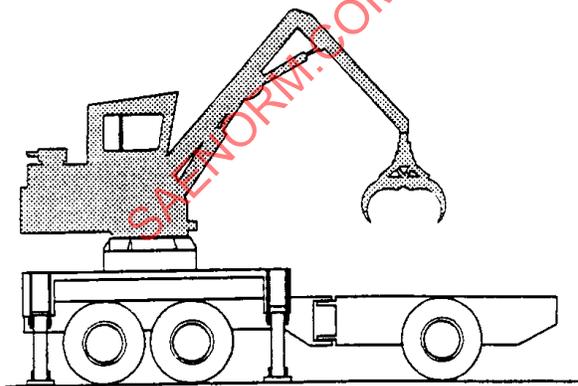
CRAWLER MOUNT



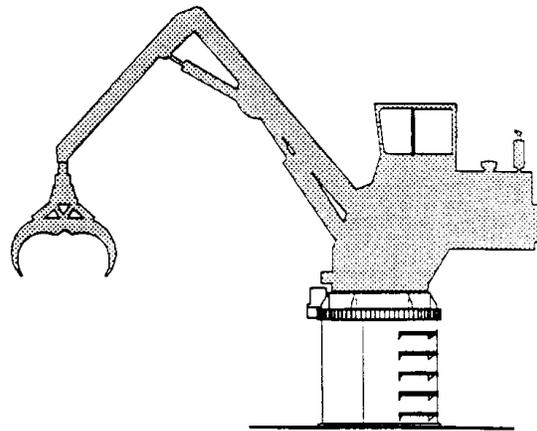
TRUCK MOUNT



RUBBER-TIRED CARRIER MOUNT



ARTICULATED CARRIER MOUNT



STATIONARY MOUNT

FIGURE 1—MOUNTING CONFIGURATIONS

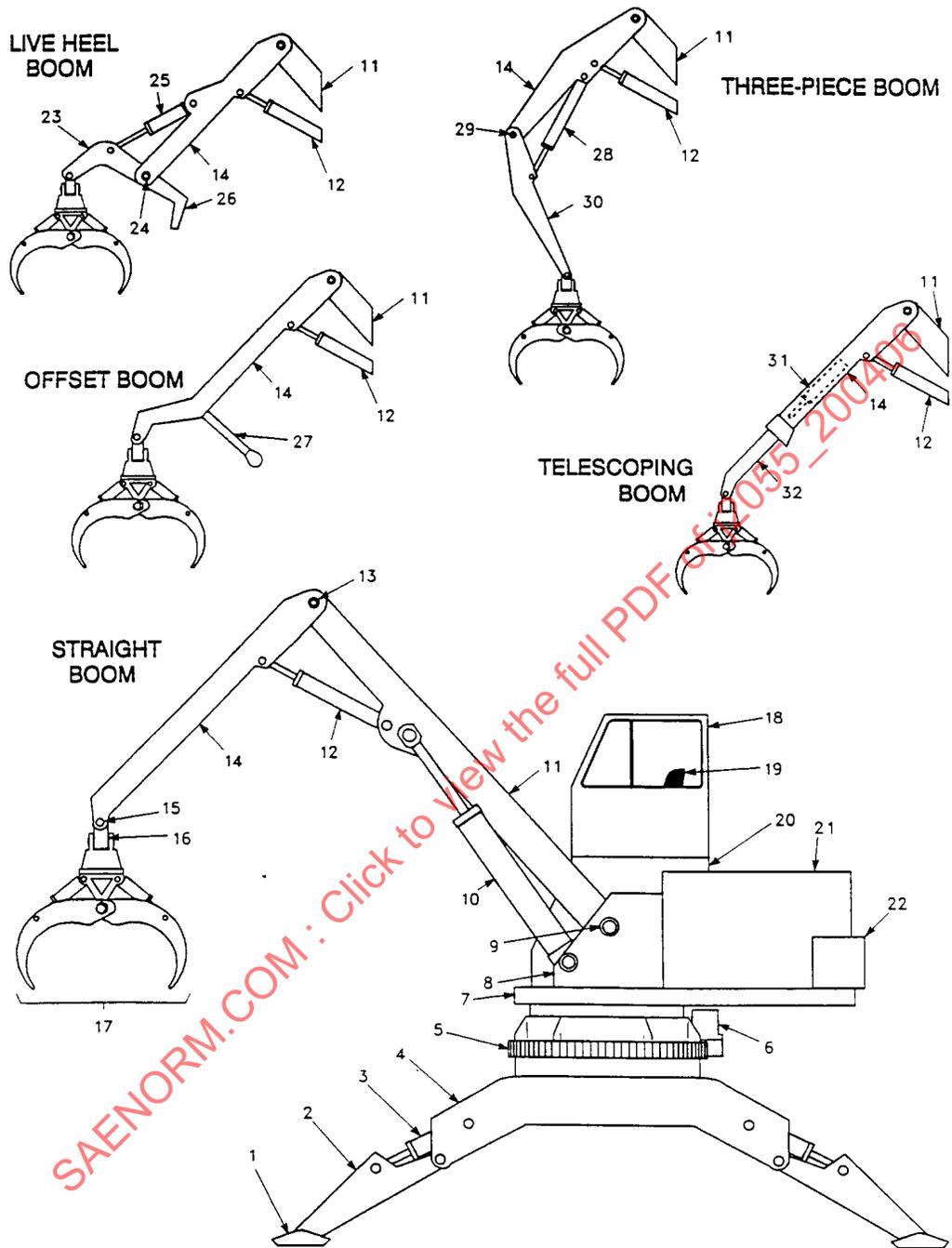


FIGURE 2—BOOM TYPES AND NOMENCLATURE

Component Nomenclature Knuckle Boom Log Loader

1. Stabilizer pad
2. Stabilizer leg
3. Stabilizer cylinder
4. Lower frame
5. Swing bearing
6. Swing actuator
7. Upper frame
8. Head
9. Main boom pivot pin
10. Main boom cylinder
11. Main boom
12. Stick boom cylinder
13. Stick boom pivot pin
14. Stick boom
15. Grapple pivot pin
16. Grapple pivot
17. Grapple
18. Cab
19. Operator station
20. Cab riser
21. Power unit
22. Counterweight
23. Heel boom
24. Heel boom pivot pin
25. Heel boom cylinder
26. Heel
27. Fixed heel
28. Jib boom cylinder
29. Jib boom pivot pin
30. Jib boom
31. Telescoping boom cylinder
32. Telescoping boom section

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