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### Application
The 9700 Series suspension is an indirect result of Hutchens’ Rocker Bushing Improvement Program. It can be utilized anywhere a 7700 Series suspension can, and almost all of the suspension components are interchangeable. However, the 9700 Series suspension offers several options that were previously unavailable with the 7700 Series, as well as numerous improvements.

### Capacity
Like our 7700 Series, the 9700 Series suspension has a Gross Axle Weight Rating (G.A.W.R.) of 22,400 lbs. when equipped with single leaf, two leaf, standard three leaf and seven leaf springs. Heavy-duty three leaf and eight leaf springs raise the G.A.W.R. to 25,000 lbs.

### Features
- A Huck ‘lockbolt’ fastening system for the rocker/rocker hanger assembly that is virtually maintenance free.
- Lightweight, fabricated hangers and equalizers with 1/2” wear pads to reduce wear at all spring contact points.
- Torque arm screws that are coated with “NEVER-SEEZ.”
- A Huck “lockbolt” fastening system for the rocker/rocker hanger assembly that is virtually maintenance free.
- A redesigned top plate that is lighter and offers greater stability under U-bolt clamp loads.
- An improved spring seat design that more efficiently transfers forces from the axle to the springs.
- A redesigned top plate that is lighter and offers greater stability under U-bolt clamp loads.
- Wrapped fabricated torque arm eye ends that utilize a single 5/8” bolt and a higher clamp load to prevent separation under extreme conditions.
- Torque arm screws that are coated with ‘NEVER-SEEZ’, and then painted to resist corrosion while allowing easy adjustment for suspension alignment.
- Except for the rockers and rocker hangers, the component parts of all 7700 and 9700 Series suspensions are completely interchangeable.

### Options
The 9700 Series suspensions are available in single, tandem and multi-axle configurations.

#### Single Axle (S)

#### Tandem Axle (T)

#### Tri-Axle (Tri)

In addition to the standard overshing configuration, an undershing configuration is available for reduced mounting heights. Mounting height (Mtg/ht) is the distance from the center line of the axle to the top of the spring hangers.

#### Overshing (OS)

#### Undershing (US)

The standard 9700 Series suspensions have U-bolts that point downward (threads and nuts below the axle). However, a model is available with inverted U-bolts (threads and nuts above the axle).

### All 9700 Series suspensions are available with either fabricated or cast steel hangers and rockers. These hangers come in various styles.

#### Fabricated (H)

#### Under Mount (Un/mt)

#### Side Mount (Si/mt)

#### Flange Mount (Fl/mt)

#### Modified Weld (M/wo)

### Capacity

**Axle spacings of 42 1/2”, 44” and 49” will be covered in this publication. Axle spacings greater than 49” will be covered in the widespread section.**

### Note:
When using 751-06, 752-01, 752-06 and 16316-01 springs, the hanger spacing should be 58” (960mm). * Str/mt = 3 1/2” (89mm), Un/mt & Si/mt = 3 7/8” (99mm), Fl/mt = 5 1/2” (140mm). ** Ref: This dimension may vary with changes in springs, spring seat heights, etc. *** Recommended spring clearance.
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Application

The 9700 Series suspension is an indirect result of Hutchens' Rocker Bushing Improvement Program. It can be utilized anywhere a 7700 Series suspension can, and almost all of the suspension components are interchangeable. However, the 9700 Series suspension offers several options that were previously unavailable with the 7700 Series, as well as numerous improvements.

Capacity

Like our 7700 Series, the 9700 Series suspension has a Gross Axle Weight Rating (G.A.W.R.) of 22,400 lbs. when equipped with single wheel, two leaf, standard three leaf and seven leaf springs. Heavy-duty three leaf and eight leaf springs raise the G.A.W.R. to 25,000 lbs.

Features

- A Huck ‘lockbolt’ fastening system for the rocker/rocker hanger assembly that is virtually maintenance free.
- Lightweight, fabricated hangers and equalizers with 1/2” wear pads to reduce wear at all spring contact points.
- Cast steel hangers and equalizers with increased wall thickness at spring contact points. Eliminating the need for additional wear pads.
- The industry’s finest rocker bushing. Combining a new rubber compound and improved bushing installation techniques, coupled with dimensional changes in the bushing and fasteners.
- An improved spring seat design that more efficiently transfers forces from the axle to the springs.
- A redesigned top plate that is lighter and offers greater stability under U-bolt clamp loads.
- Wrapped fabricated torque arm eye ends that utilize a single 5/8" bolt and a higher clamp load to prevent separation under extreme conditions.
- Torque arm screws that are coated with ‘NEVER-SEEZ®’, and then painted to resist corrosion while allowing easy adjustment for suspension alignment.

Options

The 9700 Series suspensions are available in single, tandem and multi-axle configurations.

Single Axle (S)
Tandem Axle (T)
Tri-Axle (Tri)

In addition to the standard overshing configuration, an undershing configuration is available for reduced mounting heights. Mounting height (M) is the distance from the center line of the axle to the top of the spring hangers.

Overshing (OS)
Undershing (US)

The standard 9700 Series suspensions have U-bolts that point downward (threads and nuts below the axe). However, a model is available with inverted U-bolts (threads and nuts above the axe).

All 9700 Series suspensions are available with either fabricated or cast steel hangers and rockers. These hangers come in various styles.

- Fabricated (H)
- Cast (CH)
- Under Mount (Un/mt)
- Side Mount (Si/mt)
- Flange Mount (Fl/mt)
- Weld-on (w/mt)

Axle spacings of 42 1/2”, 44” and 49” will be covered in this publication. Axle spacings greater than 49” will be covered in the widespread section. Unless otherwise specified, axle centers are assumed to be 49”. Hanger spacings for single axle units (H and CH models) are as follows:

1. Standard 9700 single axle

2. Reduced hanger spacing when utilizing 751-04 or 7051-42 springs

Hanger spacings for tandem axle units with 42 1/2” and 44” axle centers are shown on pages 17 and 18 of this publication. Hanger spacings for tandem axle units with 49” axle centers (H and CH models) are covered with their appropriate illustration. Hanger spacings for tri-axle units with 49” axle centers (H and CH models) are as follows:

Note: When using 751-06, 752-01, 752-06 and 16316-01 springs, this hanger spacing should be 58” (964mm).

* Str/mt = 3 1/2” (89mm), Un/mt & Si/mt = 3 7/8” (99mm), Fl/mt = 5 1/2” (140mm). ** Ref: This dimension may vary with changes in springs, spring seat heights, etc. *** Recommended spring clearance.
As an option to the Huck fastener, a single cap screw fastener is available for the rocker and center rocker hanger. This system is also offered as a replacement for the Huck fastener should that become necessary.

Spring seats and U-bolts to fit 5" round axles (shown below) are standard. These spring seats range in height from 3/4" to 4 3/4". Heavy duty spring seats as well as spring seats and U-bolts for special axle shapes are available as an option.

**How To Order Your 9700 Series Suspension System**

With so many options available on the 9700 Series suspension, the basis of any order must begin with a complete description of the unit. The following procedure will provide the descriptive information required:

1. Determine the number of axles required and the spacing of these axles. Unless otherwise specified, tandem axles with 49" axle centers are assumed.

2. Select the style of hangers required to mount the suspension on your particular frame or subframe. Specify whether these hangers are to be fabricated (H) or cast (CH) steel.

3. Determine the mounting height (Mtg/ht) your application requires. For your convenience, a Mounting Height Chart may be found on Page 4 of this brochure. From this chart please note that mounting height is dependent upon:
   a) Suspension configuration - Overslung or Underslung. Unless otherwise specified, suspension configuration is assumed to be overslung.
   b) Axle size - 5" Round or other. (Hutchens does not manufacture or sell axles.)
   c) Spring seat height – 3/4" to 4 3/4" in 1/2" increments.
   d) Drop type - Standard or Heavy-Duty, number of leaves and spring arch. Hutchens is not a spring manufacturer. As a service to our customers we will supply mounting heights upon request. Whether or not we provide you with springs, we will need to know what springs you intend to use to assure we furnish the appropriate U-bolt for the spring and spring seat combination you've ordered.

4. Choose which U-bolt size you would like (either the standard 7/8" or the optional 3/4" size).

**Notes**

1. Mounting heights given are for units with 5" (127mm) round axles and 3/4" (19mm) round springs. Add 1/2" (15mm) to the mounting height shown for each 1/2" (13mm) increase in spring seat height.

2. The mounting heights for 5" x 5" (127mm x 127mm) square axles are the same as those for 5" (127mm) round axles. To obtain the mounting heights for overslung 4" x 6" (102mm x 152mm) rectangular axles add 1/2" (13mm) to the appropriate 5" (127mm) round mounting height.

3. Mounting heights shown are for Underslung, Sidemount and Flangemount hangers. For Series 10 mounting heights subtract 1 1/4" (32mm). Refer to the Series 10 catalog section for additional considerations when using the Series 10.

4. Mounting heights must not exceed 17 1/4" (438mm) on No-Hop suspensions. For best performance, do not exceed 17 1/4" (438mm) mounting heights on any suspension.

5. For single axle units with 38" (965mm) hanger spacings only. **FRP mounting heights include additional 1/8" (3mm) for reinforced seats.**

6. It is recommended that a minimum of 4 1/2" (114mm) vertical clearance be maintained above the tires with trailer or chassis in an unloaded condition. Also, a minimum of 4" (102 mm) is required between the axle and the frame. When using mounting heights less than 6 1/2" (165 mm) it may be necessary to modify the trailer or chassis frame to achieve the required clearances.
As an option to the Huck fastener, a single cap screw fastener is available for the rocker and center rocker hanger. This system is also offered as a replacement for the Huck fastener should that become necessary.

Spring seats and U-bolts to fit 5" round axles (shown below) are standard. These spring seats range in height from 3/4" to 4 3/4". Heavy duty spring seats as well as spring seats and U-bolts for special axle shapes are available as an option.

A no-hoop feature is available for rear axle application on overslung H and CH 9700’s with the standard U-bolt configuration. This feature is designed to prevent rear axle rotation and the resulting ‘chatter’ or ‘hop’ that sometimes occurs when an empty trailer brakes hard. All overslung H and CH 9700 Series suspensions are available with optional 3/4" U-bolts in lieu of the standard 7/8" U-bolts. These model variations are standard catalog items. Many more combinations are possible. If your particular need is not covered in this publication, please contact Hutchens for assistance.

How To Order Your 9700 Series Suspension System

With so many options available on the 9700 Series suspension, the basis of any order must begin with a complete description of the unit. The following form will provide the descriptive information we require.

1. Determine the number of axles required and the spacing of these axles. Unless otherwise specified, tandem axles with 49" axle centers are assumed.
2. Select the style of hangers required to mount the suspension on your particular frame or subframe. Specify whether these hangers are to be fabricated (H) or cast (CH) steel.
3. Determine the mounting height (Mtg/ht) your application requires. For your convenience, a Mounting Height Chart may be found on Page 4 of this booklet from this chart please note that mounting height is dependent upon:
   a) Suspension configuration - Overslung or Underslung. Unless otherwise specified, suspension configuration is assumed to be overslung.
   b) Axle size - 5" Round or other. (Hutchens does not manufacture or sell axles.)
   c) Spring seat height – 3/4" to 4 3/4" in 1/2" increments.
   d) Spring type - Standard or Heavy-Duty, number of leaves and spring arch. Hutchens is not a spring manufacturer. As a service to our customers we will supply springs upon request. Whether or not we provide you with springs, we will need to know what springs you intend to use to assure we furnish the appropriate U-bolt for the spring and spring seat combination you’ve ordered.
4. Choose which U-bolt size you would like (either the standard 7/8" or the optional 3/4" size).

Note: In many instances more than one combination will result in the same mounting height. Therefore, all of the aforementioned factors should be taken into consideration when ordering.

Example: A tandem axle (T) 9700 Series suspension requiring a mounting height of 10" and fabricated (H) undermount hangers (Un/mt) for use with 3/4" U-bolts and 5" round axles with 354-00 springs would be ordered as follows:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Fabricated</th>
<th>Spec. No.</th>
<th>Tandem axle</th>
<th>Underslung Hangers</th>
<th>For use with 3/4&quot; U-bolts</th>
<th>Spring Seat</th>
<th>See Chart</th>
<th>With 354-00 Springs</th>
</tr>
</thead>
</table>

Notes

1. Mounting heights given are for units with 5" (127mm) round axles and 3/4" (19mm) spring seats. Add 1/2" (15mm) to the mounting height shown for each 1/2" (13mm) increase in spring seat height.
2. The mounting heights for 5" x 5" (127mm x 127mm) square axles are the same as those for 5" (127mm) round axles. To obtain the mounting heights for overslung 4" x 6" (102mm x 152mm) rectangular axles add 1/2" (13mm) to the appropriate 5" (127mm) round mounting height.
3. Mounting heights shown are for Underslung, Sidemount and Flangedmount hangers. Subtract 1/4" (6mm) for Straddlemount hangers. For Series 10 mounting heights subtract 1/4" (32mm). Refer to the Series 10 catalog section for additional considerations when using the Series 10.
4. Mounting heights must not exceed 17 1/4" (438mm) on No-Hop suspensions. For best performance, do not exceed 17 1/4" (438mm) mounting heights on any suspension.
5. For single axle units with 38" (965mm) hanger spacings add approximately 1/4" (6mm) to the 36 1/2" (927mm) mounting height.
6. It is recommended that a minimum of 4 1/2" (114mm) vertical clearance be maintained above the tires with trailer or chassis in an unloaded condition. Also, a minimum of 4" (102 mm) is required between the axle and the frame. When using mounting heights less than 6 1/2" (165 mm) it may be necessary to modify the trailer or chassis frame to achieve the required clearances.
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