

Special Tools

Adjusting angle set ENS 121 for Celette adjusting bench

Adjusting angle set ENS 145 for Celette adjusting bench

Adjusting angle set ENS 166 for Celette adjusting bench

Note

Since Type 107.04 in range of front axle supports and of rear axle attachment is in principle the same as Types 114/115, components of adjusting angle sets ENS 121 and ENS 145 can be used for Type 107.04.

Components item 2 and 16 are parts of adjusting angle set ENS 121, component item 14 is a part of adjusting angle set ENS 145.

The adjusting angle set ENS 166 also includes components for Type 107.02.

Arrangement and function of these components are described later in chapter 60.2

The adjusting angle set ENS 166 is designed for mounting vehicles on the Celette adjusting bench without units and in the event of front end damage without removal of rear axle (60.1–210).

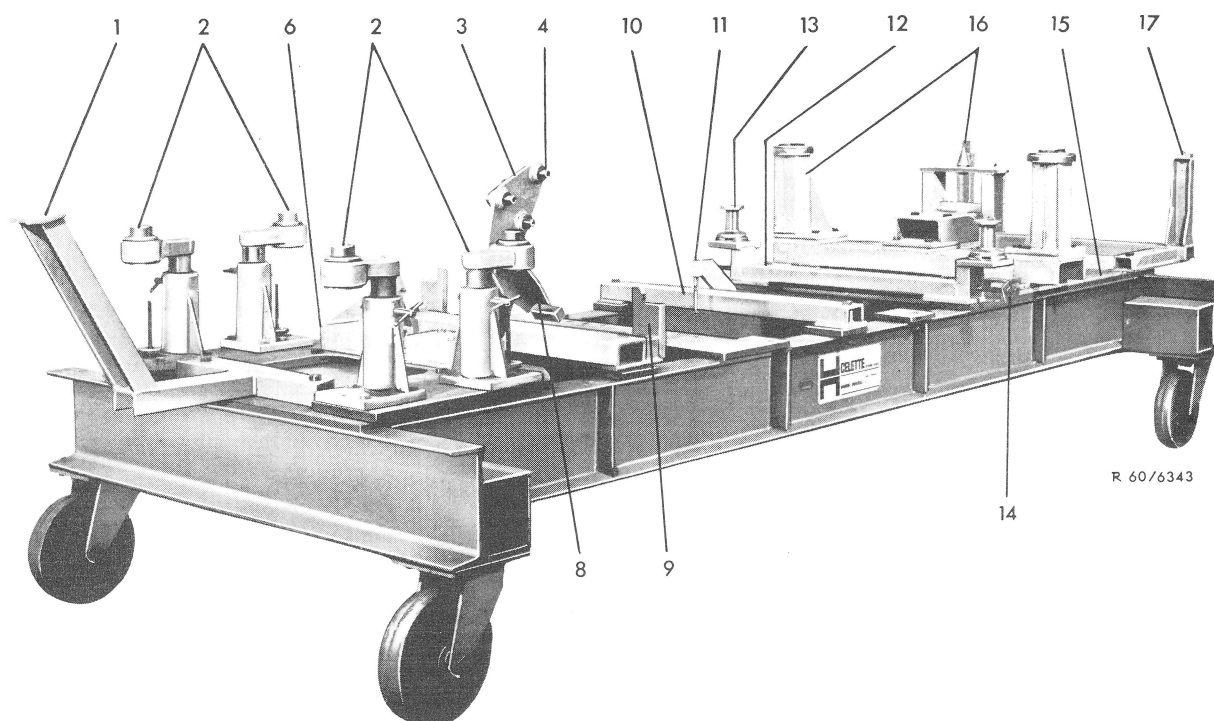


Fig. 1

- | | |
|---|--|
| 1 Support for front cross member | 9 Support for side member connecting shells |
| 2 Dome for front axle carrier | 10 Support for control bore |
| 3 Fastening and test bridge for steering gear contact surface | 11 Plug for control bore |
| 4 Insert for test bridge | 12 Support for rear axle supporting bearing |
| 5 Control plug for test bridge | 13 Spacer for supporting bearing holder |
| 6 Support for intermediate steering lever bearing | 14 Fastening bolts for supporting bearing |
| 7 Plug for intermediate steering lever bearing | 15 Intermediate plate for cross member with rear axle supports |
| 8 Support for steering gear damper | 16 Cross member with rear axle support |
| | 17 Support for cross member under rear center piece |
| | 18 Support for torsion bar bearing rear |

The adjusting angle set ENS 166 consists of components 1, 3 to 13, 17 and 18.

60.1 Conversion of Celette Adjusting Bench for Bodies without Units

Mounting of Adjusting Angle Set

The adjusting angle set is mounted on the Celette adjusting bench according to Fig. 1 and according to the chart added by the Celette company to the adjusting angle set.

The individual supports have the following functions:

Item 1 Support for front cross member when repairing the front end and replacing the front cross member (Fig. 2).

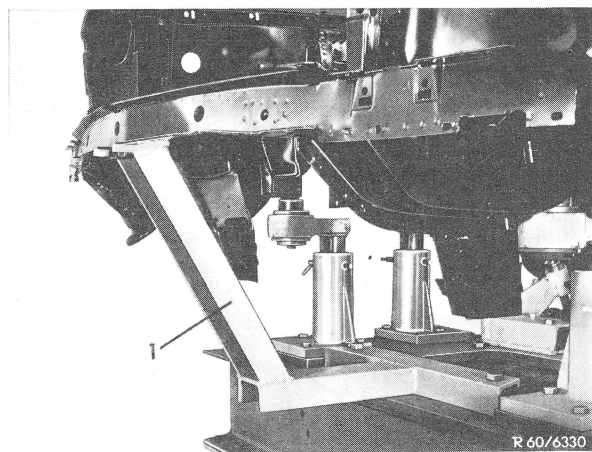


Fig. 2

1 Support for front cross member

Item 2 Dome for front axle carrier is taken from adjusting angle set ENS 121 (Fig. 3).

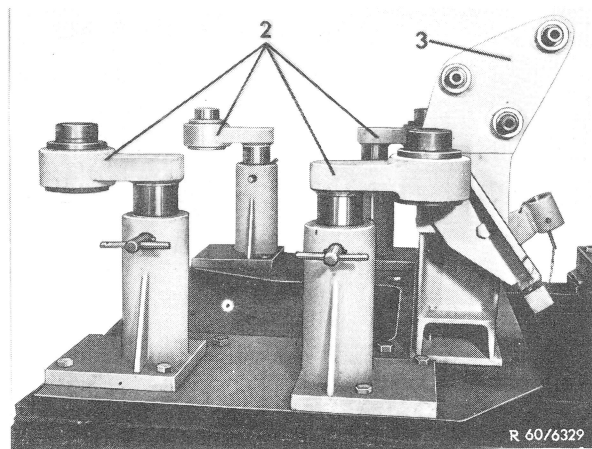


Fig. 3

2 Dome for front axle carrier
3 Bridge for steering gear contact surface

For replacement front ends and wheel installations the front axle brackets and the steering gear contact surface are finish-machined. No milling jobs required.

Item 3 Fastening and test bridge for steering gear contact surface for attaching and checking side beam in range of steering gear contact surface. (Fig. 4).

Item 4 Insert for test bridge for attaching side member and for checking deviations in crosswise direction.

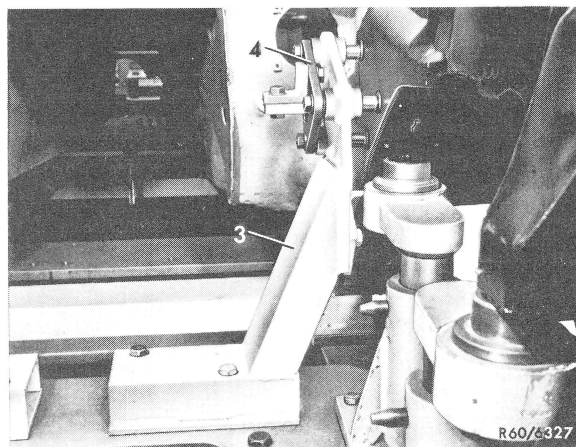


Fig. 4

3 Fastening and test bridge
4 Insert for test bridge

Item 5 Control plug for test bridge to check vertical and longitudinal deviations of steering gear contact holes (Fig. 5).

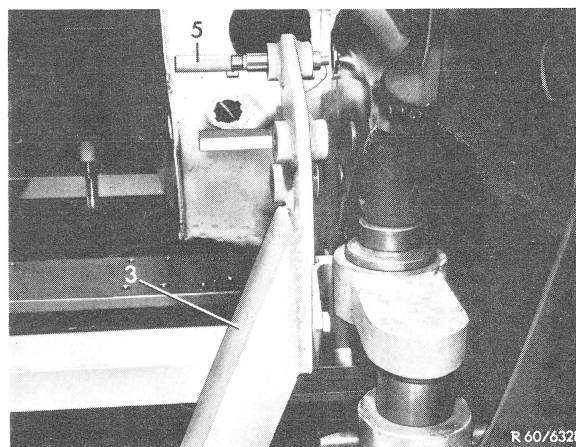


Fig. 5

3 Fastening and test bridge
5 Control plug for test bridge

Item 6 Support for intermediate steering lever bearing for checking and attaching intermediate steering lever bearing (Fig. 6).

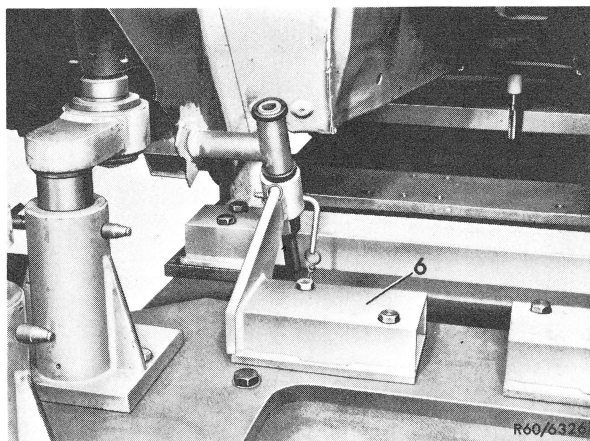


Fig. 6

6 Support for intermediate steering lever bearing

Item 7 Plug for support of intermediate steering lever bearing for setting up intermediate steering lever bearing with and without rubber bearing (Fig. 7).

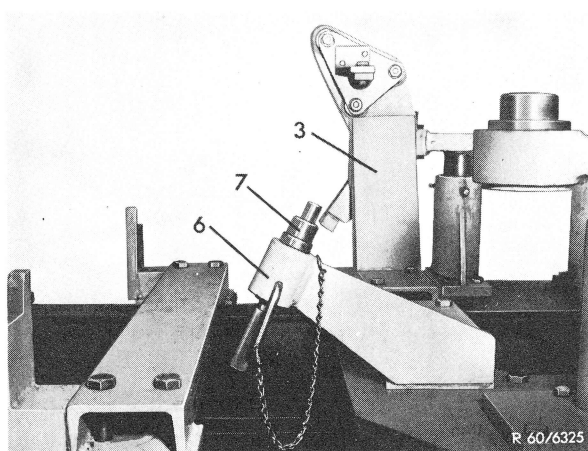


Fig. 7

3 Fastening and test bridge
6 Support for intermediate steering lever bearing
7 Plug for intermediate steering lever bearing

Item 8 Support for steering gear damper bearing for checking and welding down of brackets for steering gear shock absorber (Fig. 8).

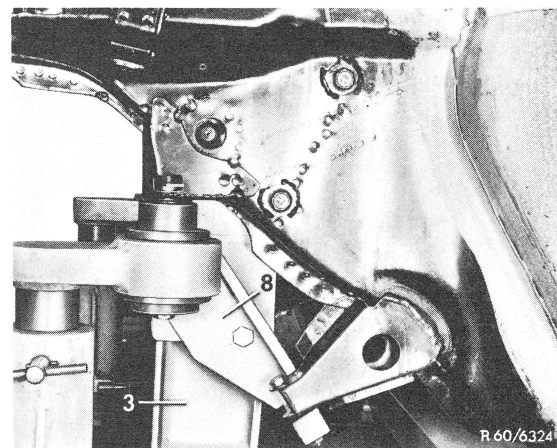


Fig. 8

3 Fastening and test bridge
8 Support for steering gear damper

Item 9 Support for side member connecting shell (Fig. 9).

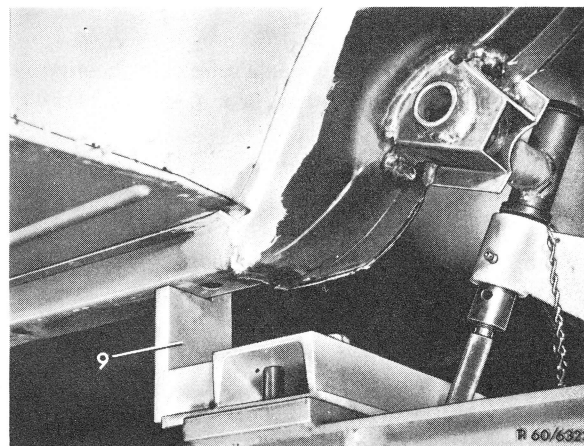


Fig. 9

9 Support for side member connecting shell

60.1 Conversion of Celette Adjusting Bench for Bodies without Units

Item 10 Support for control bore (Fig. 10).

Item 11 Plug for control bore for checking control bore on frame floor.

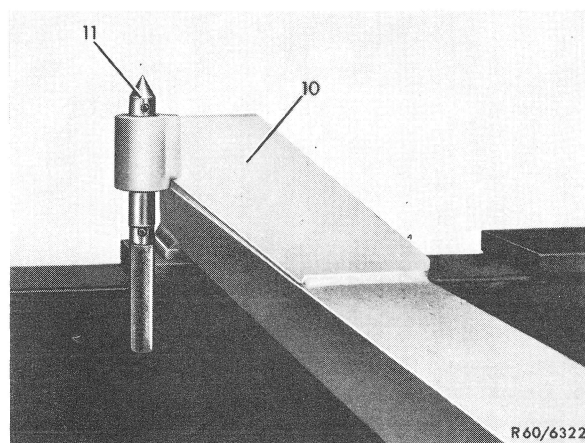


Fig. 10

10 Support for control bore
11 Plug for control bore

Item 12 Support for rear axle supporting bearing for vehicles with and without rear axle (Fig. 11).

Item 13 Spacer for supporting bearing is required for mounting bodies without units.

Item 14 Fastening bolts for supporting bearing are taken from adjusting angle set ENS 145.

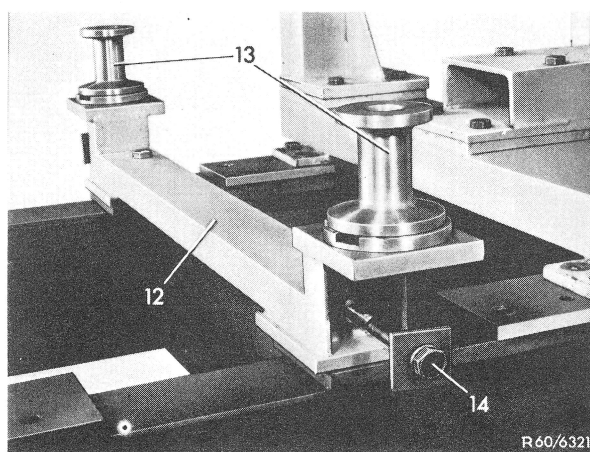


Fig. 11

12 Support for supporting bearing
13 Spacer for supporting bearing
14 Fastening bolts for supporting bearing

Item 15 Intermediate plate for cross beam with rear axle supports (Fig. 12).

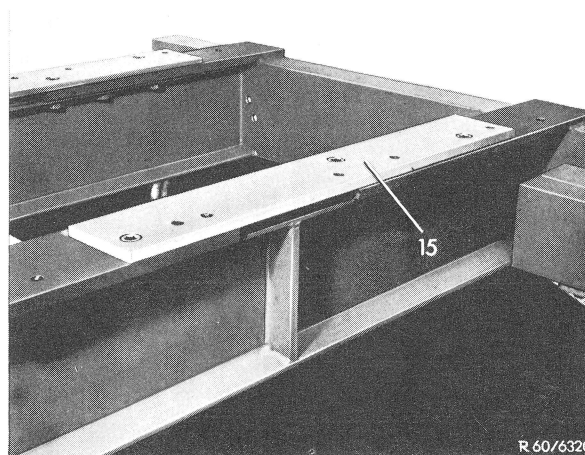


Fig. 12

15 Intermediate plate for cross beam rear axle supports

Item 16 Cross beam for rear axle supports is taken from ENS 121 (Fig. 13).

Item 17 Support for cross member under rear center piece is used only when repairing the rear end.

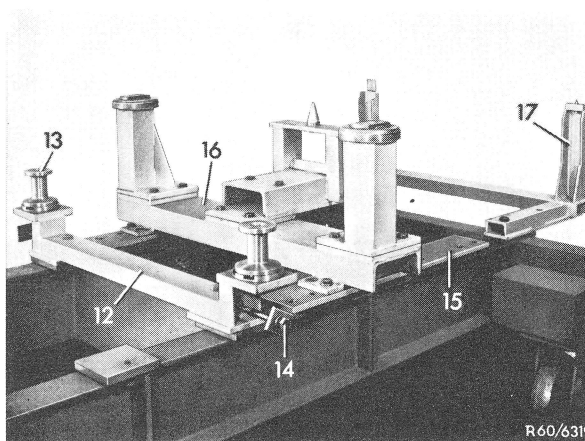


Fig. 13

12 Support for rear axle supporting bearing
13 Spacer for supporting bearing
14 Fastening screws for supporting bearing
15 Intermediate plate
16 Cross member for rear axle supports
17 Support for cross member under rear center piece