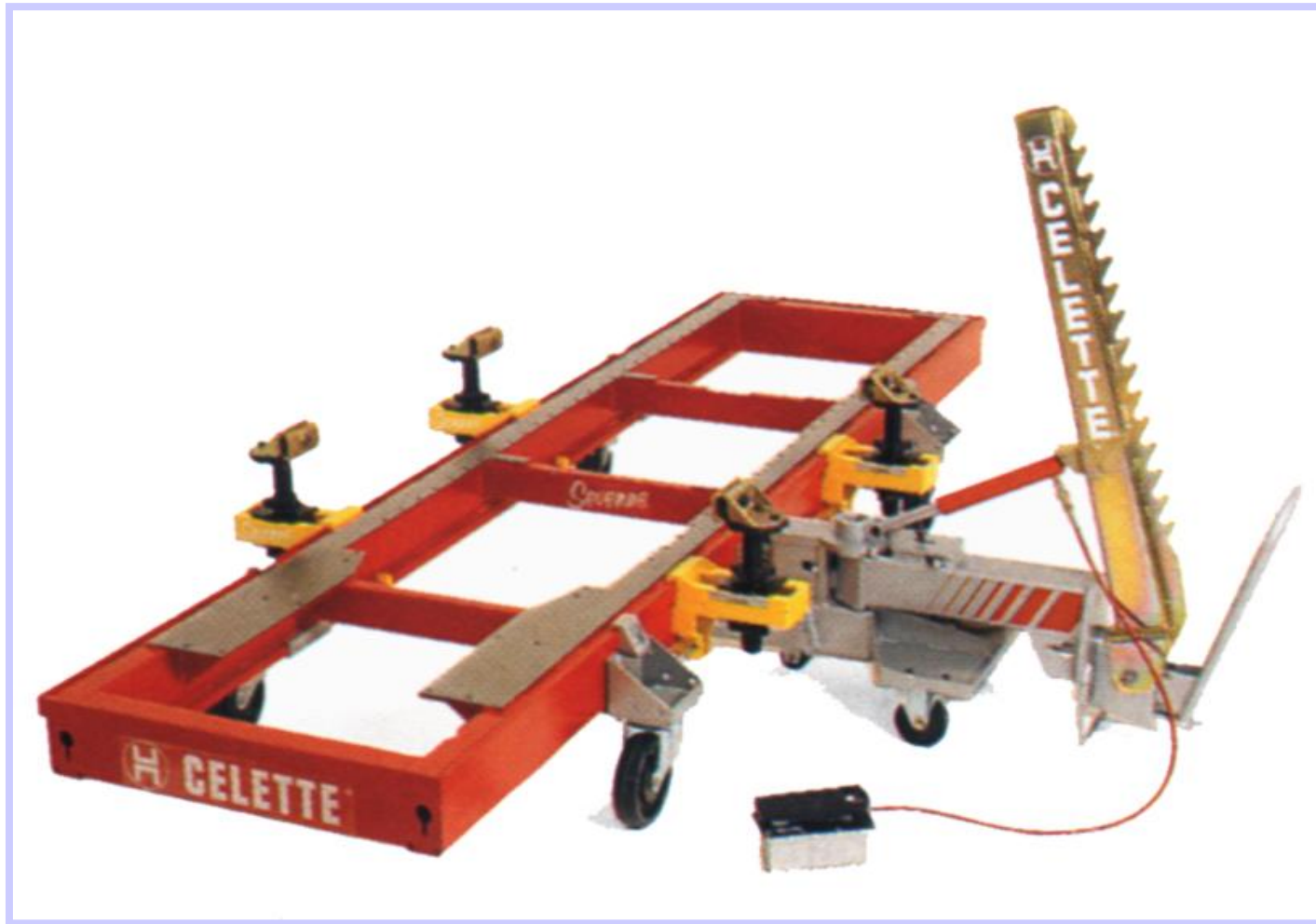




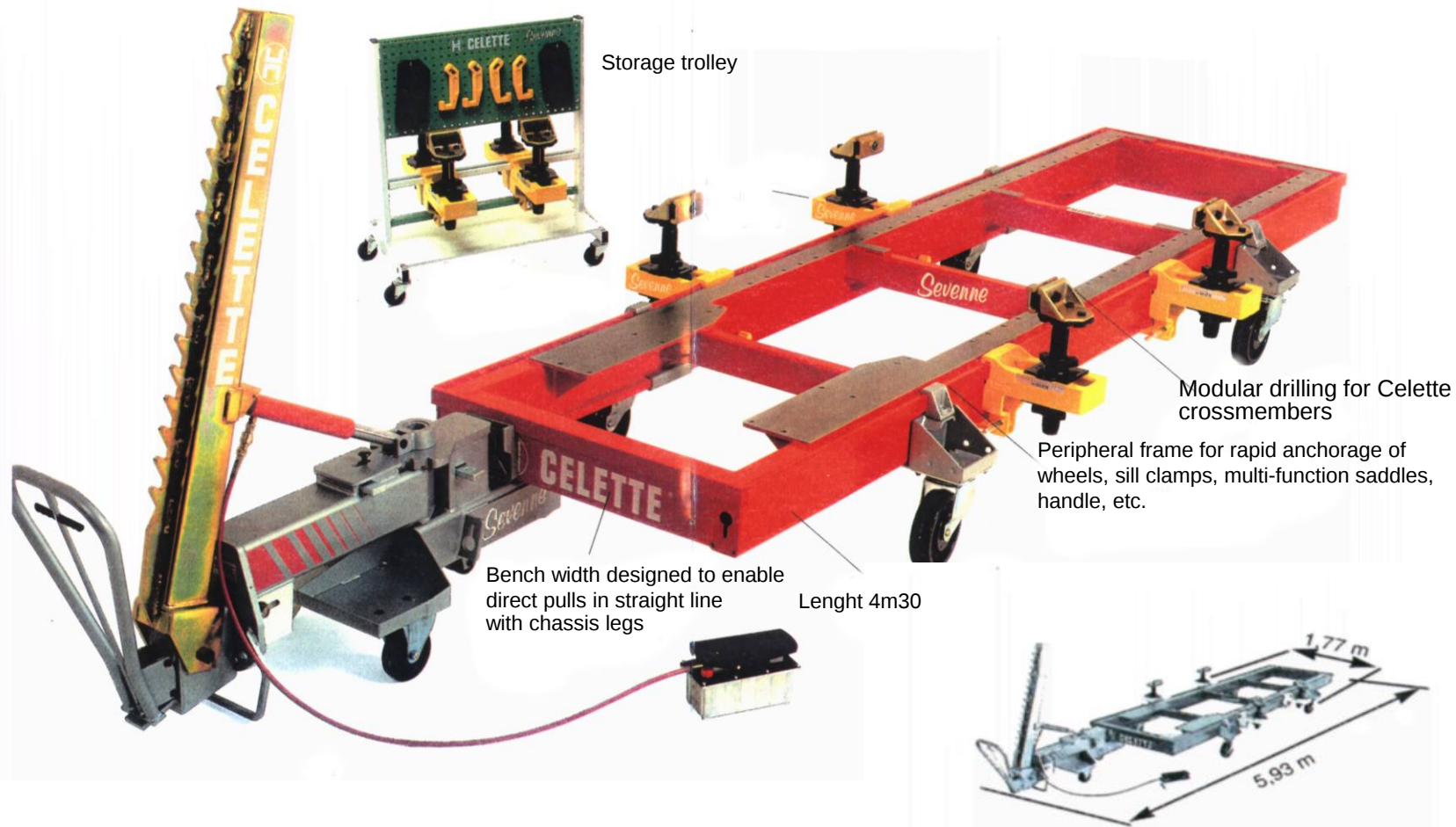
CELETTE®
CAR LIFE SOLUTIONS

SEVENNE



SEVENNE

Pioneer of the Universal Bench concept, with 40 years of experience, Celette improves working conditions further with new check and repair system.

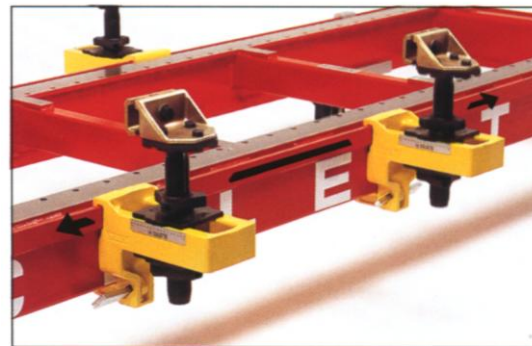
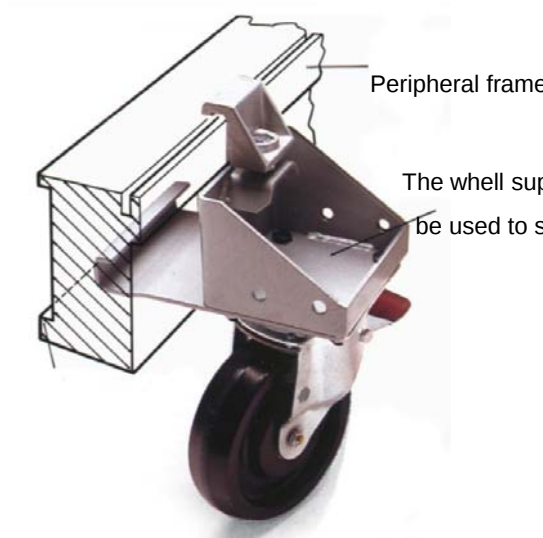


SEVENNE

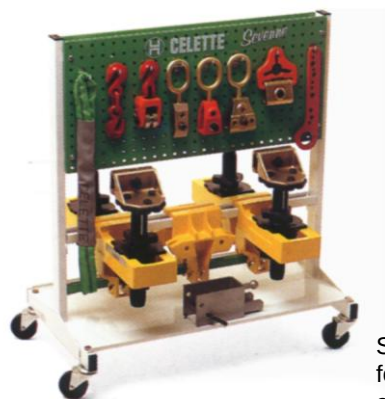
Peripheral anchorage frame



Sill clamps are very easy to fit



Sill clamps can slide along the frame and are rapidly locked in position with wedges.



Storage trolley for sill clamps and other accessories

Supplied as standard equipment two multi-function plates which enable wide anchorage on pinch welds of fragile sills



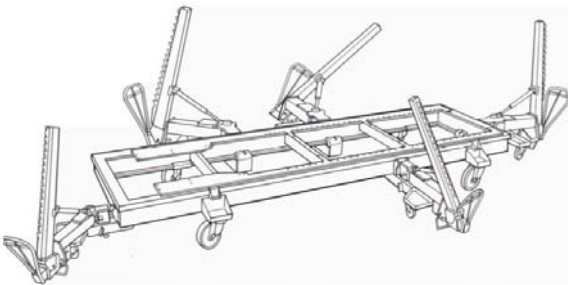
SEVENNE



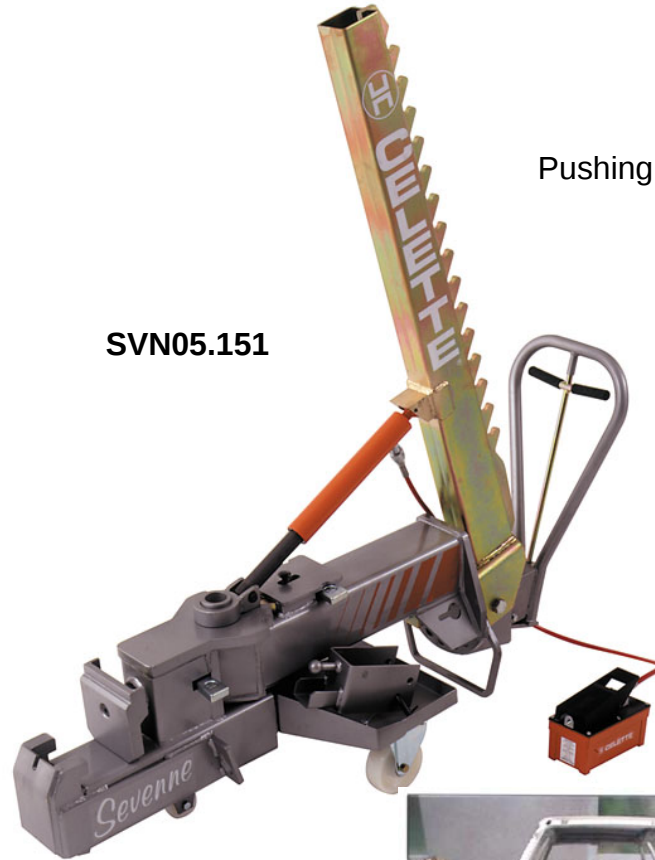
Vertical arm can be tilted very easily



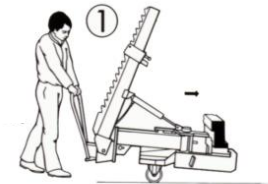
Easy to manoeuvre



Pullers fits all around the bench



Pushing



Beams pivots for multi-angle pulling



Two pullers can be fitted side by side

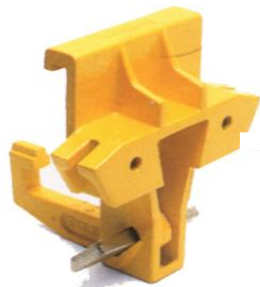
SEVENNE

Accessories



CAT. 500

Kit of clamps and chains



9121.523

Multi-function support saddle



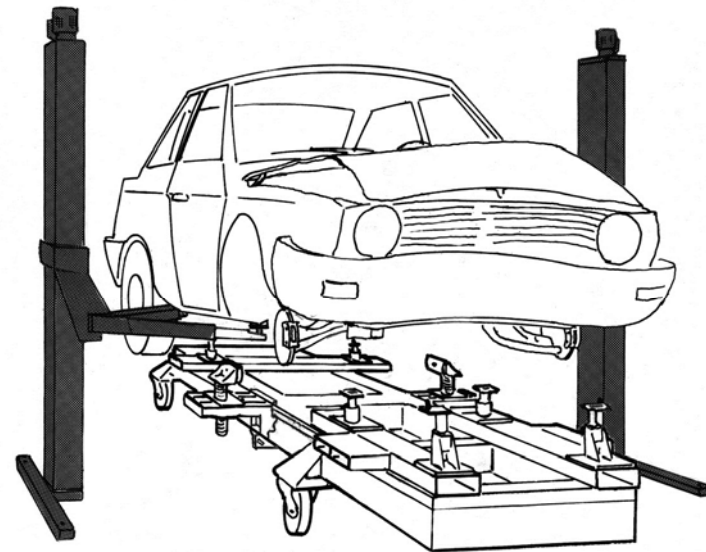
9121.533

Bench steering handle

9128.503

High level pulls using vertical extension
9128.503

9121.523

Downward pull using : Multi-function
support 9121.523 + Pulley block
ATD.01.801



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Body aligning instructions

Safety Instruction

For safe work , inspect the following items before starting operation.

- Check that the chains have not stretched , nor scarred.
- Check that the teeth of the clamp have not worn out , and check that undercoat has not adhered.
- Check that air pump and ram have no oil leakage and check amount of oil in the pump and ram
- Check that sufficient air is supplied to operate the pump.

Use the pulling machine with the air pressure in the range from 3kg/cm^3 to 10kg/cm^3

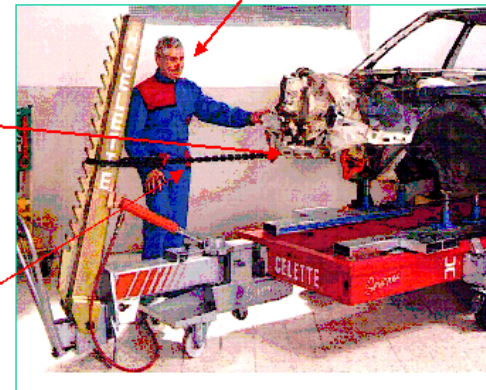
Sufficient force is obtained with the air pressure of 7kg/cm^3

When starting the pulling work , confirm that the vehicle is securely fixed and hook a **safety wire** so that any dangerous situations do not occur even if the clamp came off.

Perform the pulling work while taking proper care of the other workers and other vehicles.

Operate the pulling machine from the position which is not dangerous even when the clamp came off.

Chains must not be twisted



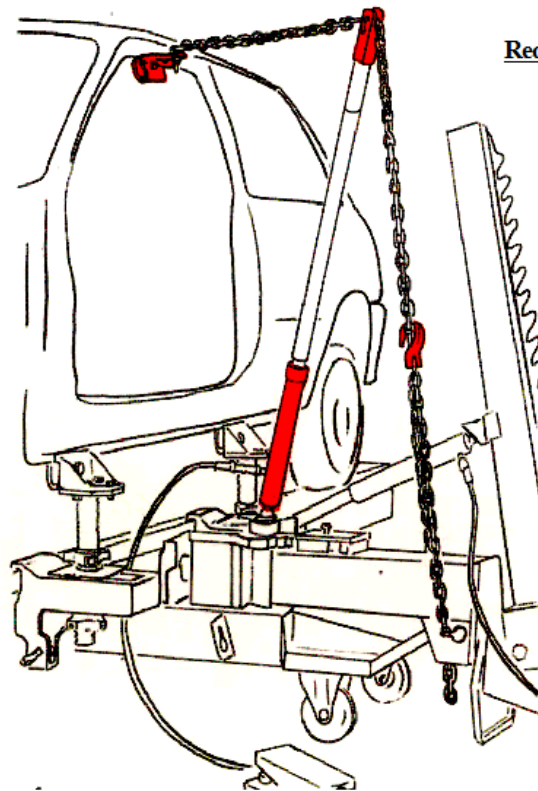


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Body aligning instructions

Pulling at a Higher Position

Use the vector system when pulling an object which is higher than the tower of the pulling unit.



Required parts



CSK.1511
10t hydraulic set



ATD.1343
Star clamp



CN.xxxx
chains

* Air pump HYP.2031F is used.

Note

In this working position, the extension tubes and chains are used after they are extended. Be careful and operate the pulling machine from position which is not dangerous even if the extension tubes or chains are broken while pulling.



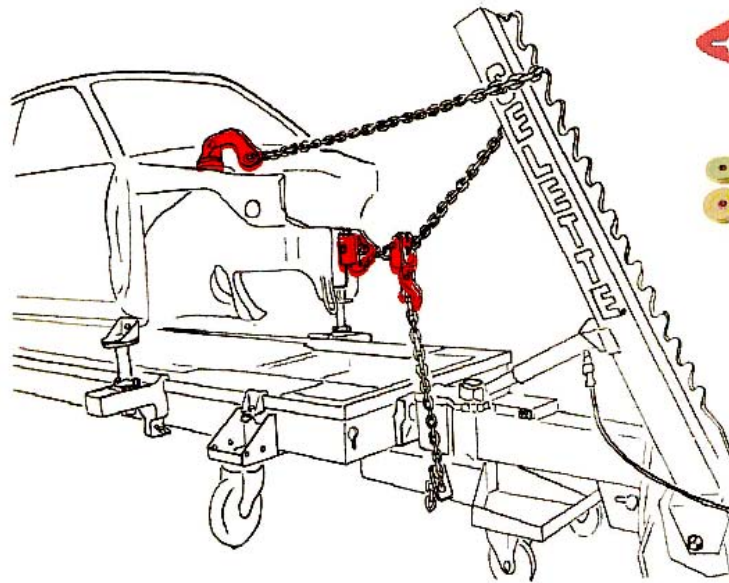
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Body aligning instructions

Two-point Pulling

Pull the two points simultaneously using a chain

Required parts



ATD.149
Strut puller



ATD.xx.xxx
Centering disk



ATD.1343
Star clamp



CN.3000 / CN.1300
Chain

ATD.01.801

Pulley block with hook

* The ATD.149 is used with the centering disk sets which are specific to each manufacturer.

Note : When the two pulling points have different height , set height of the pulling unit's post to the higher point and use the pulley block to pull the lower point as shown.

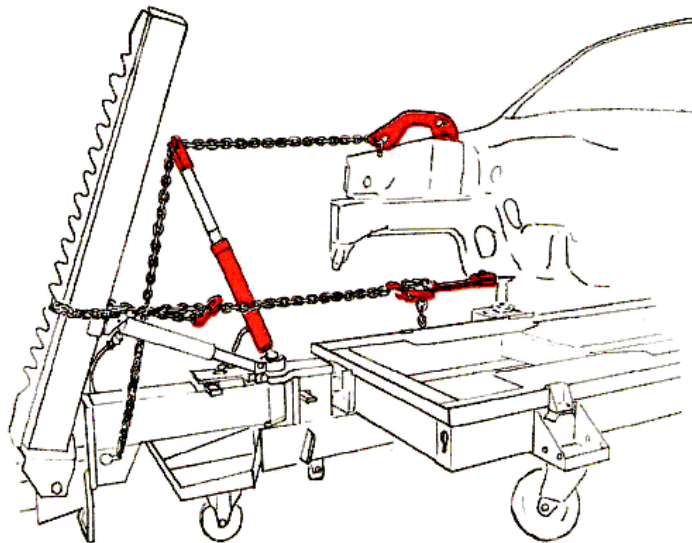


CELETTE®
CAR LIFE SOLUTIONS

Body aligning instructions

Two-point Pulling

Pull the two points simultaneously using a pulling unit and a vector system.



* The ATD.149 is used with the centering disk sets which are specific to each manufacturer.

Note: Pull the main point using a pulling unit. Pull the other point using vector system which is an auxiliary pulling.
To change the pulling direction of a vector system, use a support saddle (9121.523) . (Refer to page 6)

Required parts



CSK.1511
10t hydraulic set



ATD.149
Strut puller



ATD.xxxx
Centering disk



ATD.1343
Star clamp



ATD.135
Pull plate



CN.xxxx
Chain

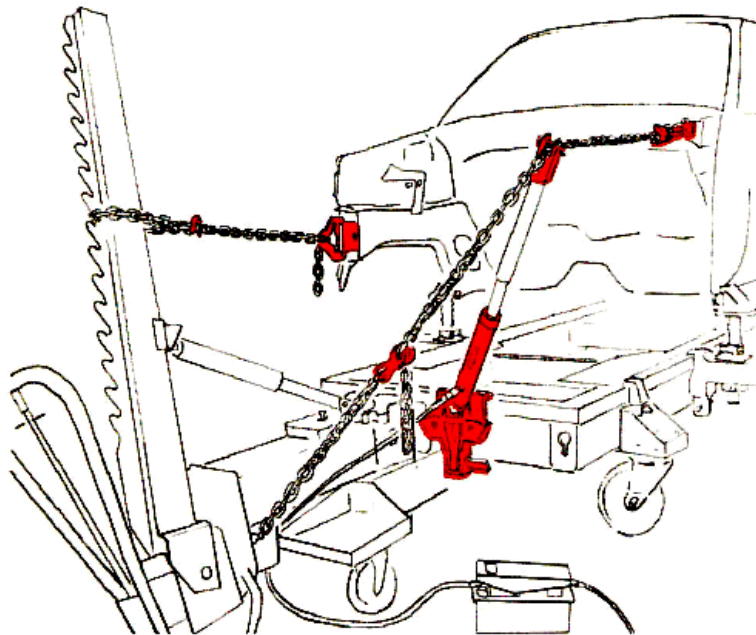


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Body aligning instructions

Multiple Direction Pulling

Pull the two points simultaneously using a pulling unit and a vector system.



Note: Pull the main point using a pulling unit. Pull the other point using a vector system which is an auxiliary pulling.
Adjust the pulling direction of a vector system by changing the fixing position of the support saddle.

Required parts



ATD.1324
Clamp 50mm



ATD.1343
Star Clamp



CSK.15111
10ton hydraulic set



9121.523
Support saddle



CN.xxxx
Chain



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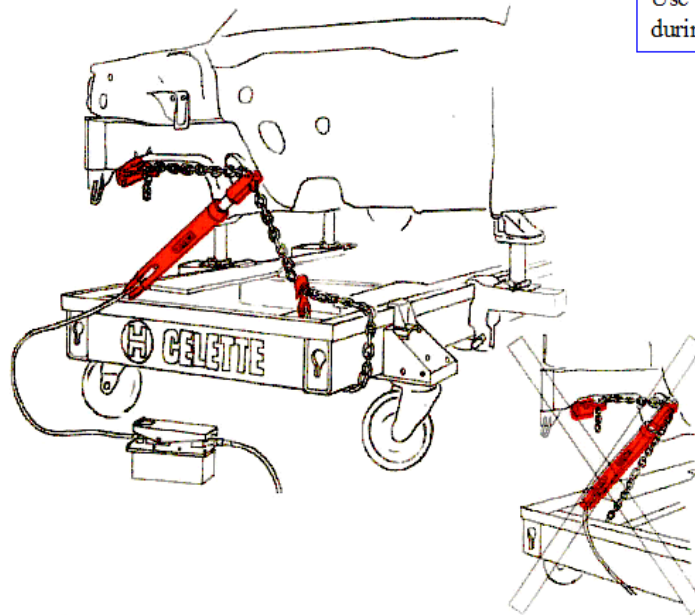
Body aligning instructions

Pulling to Traverse Direction

Use the method of pulling to traverse direction when pulling an object without using a pulling unit.

Use the method of pulling to traverse direction when a pulling unit cannot be used because one side of a frame becomes obstacle.

Use the method of pulling to traverse direction as an auxiliary fixing during correction of a frame.



Required parts



VS10S.251

10ton hydraulic ram



ATD.1343

Star Clamp



SK.3103

90° V-shaped head



SK.3107

Chain lock head



SK.1104

Connector with male / male ends



CN.xxxx

Chain

Note: Be careful of angle of chains. Never use the pulling machine with the chains angle as shown in the illustration. It can damage the ram and chains.

Be careful that the pivot point of a ram must not slip. Operate the pulling machine from the position which is not dangerous even if a ram came off the chains.

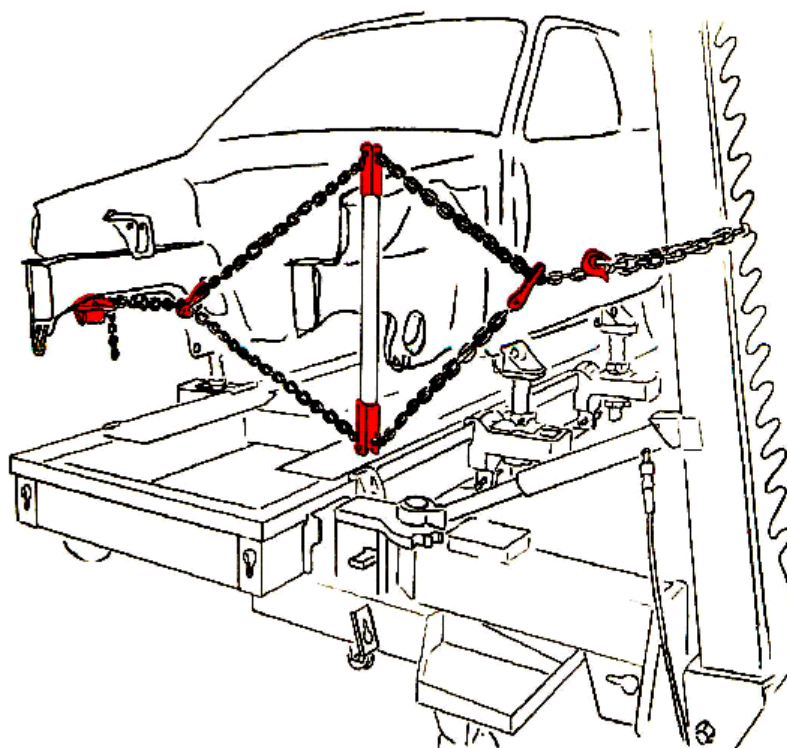


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CAR LIFE SOLUTIONS

Body aligning instructions

Pulling to Traverse Direction

Pull an object to traverse direction in order to dodge an object when a frame becomes obstacle.



Required parts



ATD.1343

Star clamp



SK.2103

Extension tube



SK.1104

Connector with male / male ends



SK.3107

Chain lock head x2



CN.xxxx

Chain

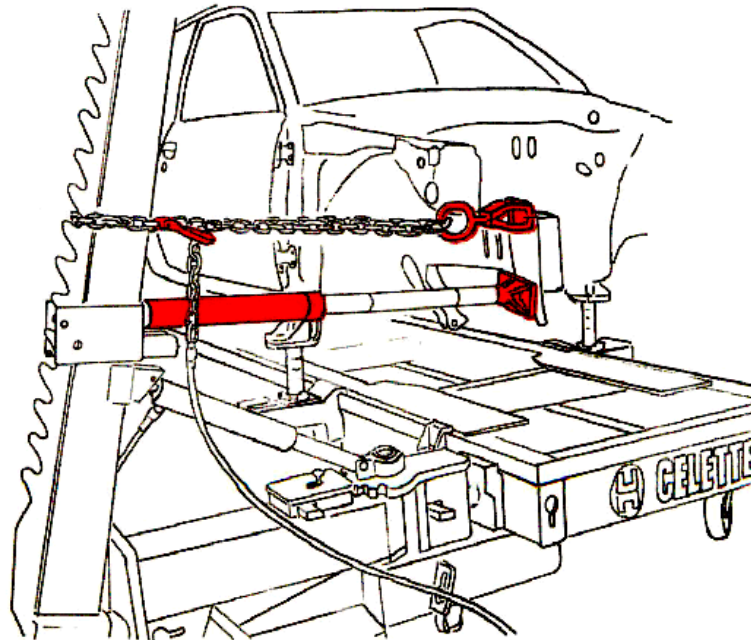


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Body aligning instructions

Push and Pull Simultaneous Operation

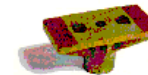
Correct distortion (twisting) of a box of a frame.



Required parts



ATD.1312
Clamp 100mm



SK.3101
Flat base



VS10S.251
10ton Ram



SK.2101~SK.2104
Extension tube



CN.xxxx
Chain

Note: The pulling point and the pushing point must be located far from each other with sufficient clearance. Avoid pushing and pulling works simultaneously using a sufficiently rigid object when the pulling and pushing points are extremely near. It can not only damage the ram and chains , but is also very dangerous.

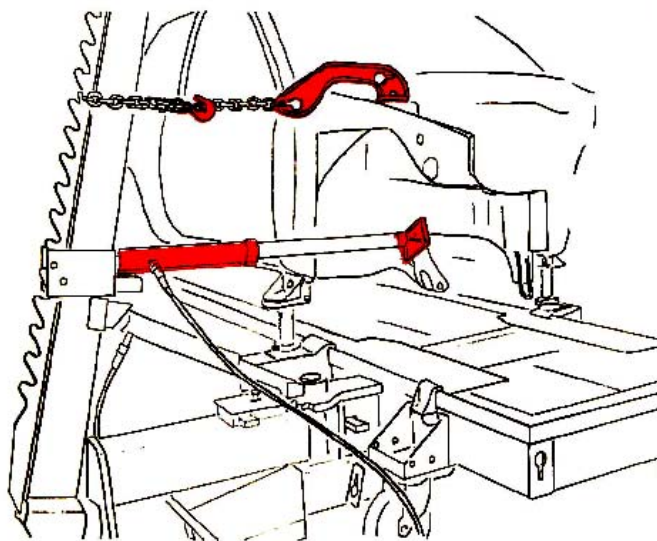


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CAR LIFE SOLUTIONS

Body aligning instructions

Push and Pull Simultaneous Operation



- The ATD.149 is used with the centering disk sets which are specific to each manufacturers.

* Air pump Hyp.2301F is used.

Note: The pulling points and the pushing point must be located far each other with sufficient clearance. Avoid pushing and pulling works simultaneously using a sufficiently rigid object when the pulling and pushing points are extremely near.

It can not only damage the ram and chains , but is also very dangerous.

Correct distortion of a strut and a frame

Required parts



ATD.149

Strut puller



ATD.xx.xxx

Centering disk



SK.3101

Flat base



VS10S.251

10ton Ram



SK.2101~SK.2104

Extension tube



CN.xxxx

Chain

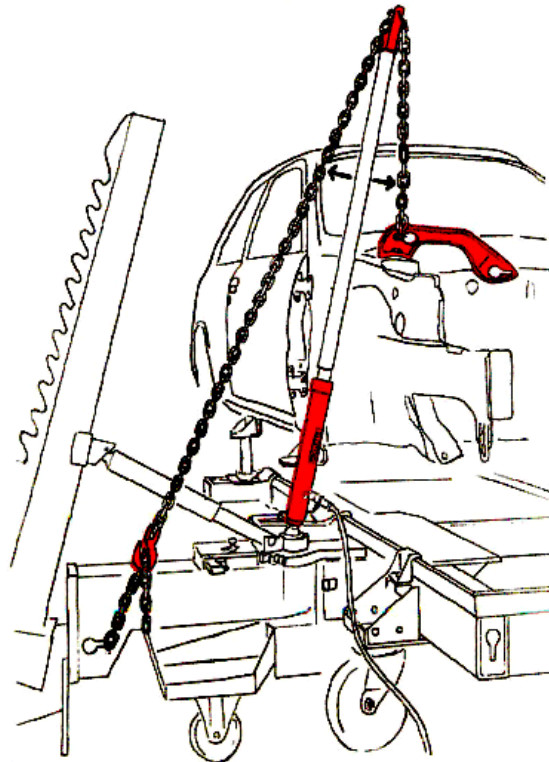


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Body aligning instructions

Pulling to Upward Direction

Pull an object upwards using a vector set.



Required parts



ATD.149

Strut puller



ATD.xx.xxx

Centering disk



CSK.1511

10t hydraulic set



CN.xxxx

Chain

- The ATD.149 is used with the centering disk sets which are specific to each manufacturers.

* Air pump Hyp.2301F is used.

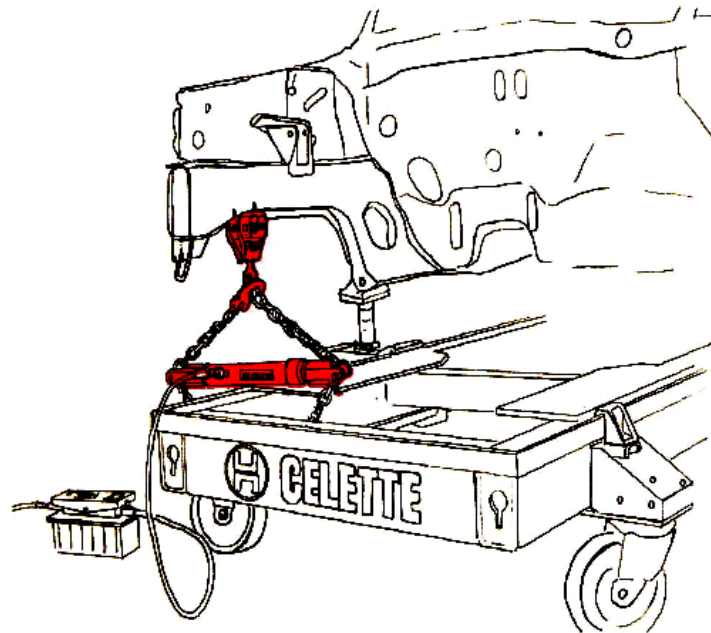
Note: Prepare a working floor where ceiling is sufficiently high enough. Install the pulling so that extension tubes and ram do not interfere with body. When an extension tube is extended, angles formed by two chains on both sides should become same. In this working position, the extension tubes and chains are used after they are extended. Be careful and operate the pulling machine from the position which is not dangerous even if the extension tubes or chains are broken / come off.



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Body aligning instructions

Pulling to Downward Direction



Note: A bench and a ram must be located far from each other with sufficient clearance, so that a ram and a ram couple must not interfere with a bench.

When a bench and a ram can not be located far enough from each other, perform the work referring to the other downward pulling setting. Illogical work can not only damage a ram and chains but is also very dangerous.

Pull an object downwards using a bench without using a pulling unit. (**Diamond setting**)

Required parts



ATD.1312
Clamp 100mm



SK.3107
Chain lock head x2



SK.1104
Connector with male / male ends



VS10S.251
10ton Ram



ATD.01.850
Chain with rod



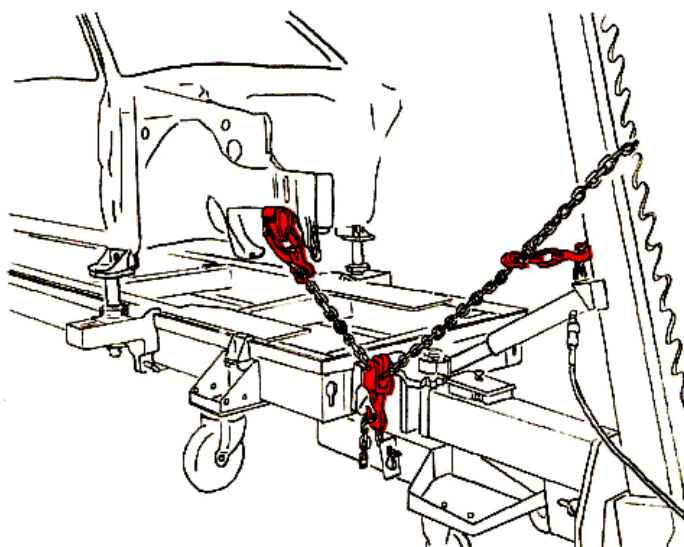
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Body aligning instructions

Pulling to Downward Direction

Pull an object downwards using a pulley block.



Note:

Set a pulley block using the chain fixing stays of a pulling unit and a bench.

Be careful not to damage the foot steps and others when pulling an object downward with strong force because a strong stress is given to the seal – clamp fixing point of a vehicle.

Required parts



ATD.1312
Clamp 100mm



ATD.140
York for clamp



ATD.01.801
Pulley block



CR210
Chains , two pieces



CN.xxxx
Chain

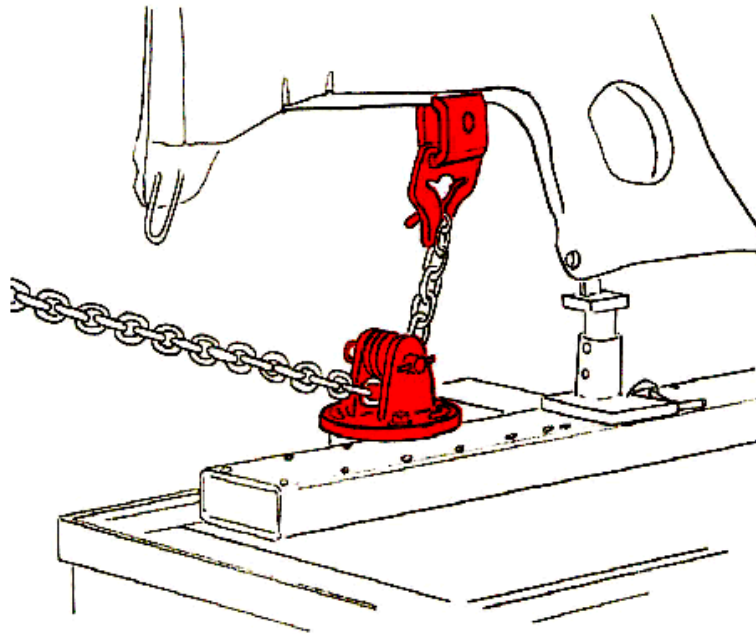


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Body aligning instructions

Pulling to Downward Direction

Pull an object downwards using a pulley block for bench.



Required parts



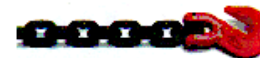
974.910

Pulley block for bench



ATD.1343

Star clamp



CN.xxxx

Chain

Note:

Pull an object downwards using the holes of a modular member or a bench by attaching the pulley block for bench.

Be careful that the chains are not twisted. Illogical work can not only damage a pulley block and chains but is also very dangerous.



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Body aligning instructions

Pulling to Downward Direction

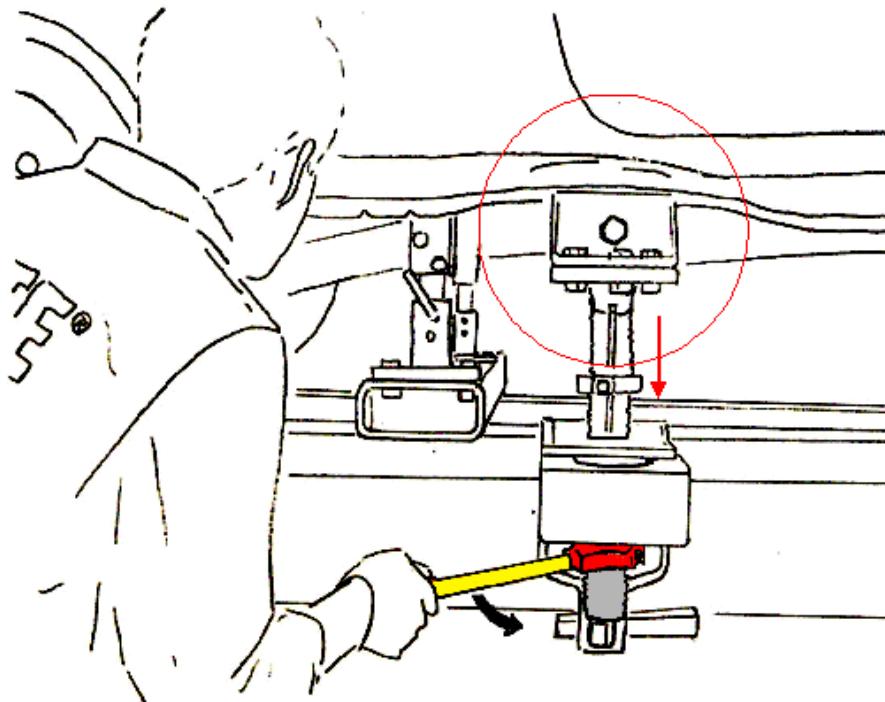
Pull an object downwards using a seal – clamp.

Note:

A foot step and adjacent area is pulled downwards or upwards the using the pulling machine with the MZ jig system together , by turning the nut of the strut of a seal – clamp.

Be careful not to give the secondary damage to the area which is supported by the jig. Provide an additional support to the other areas using a jack or the like.

Use a pulling unit and pulley block when performing a strong downward pulling work.



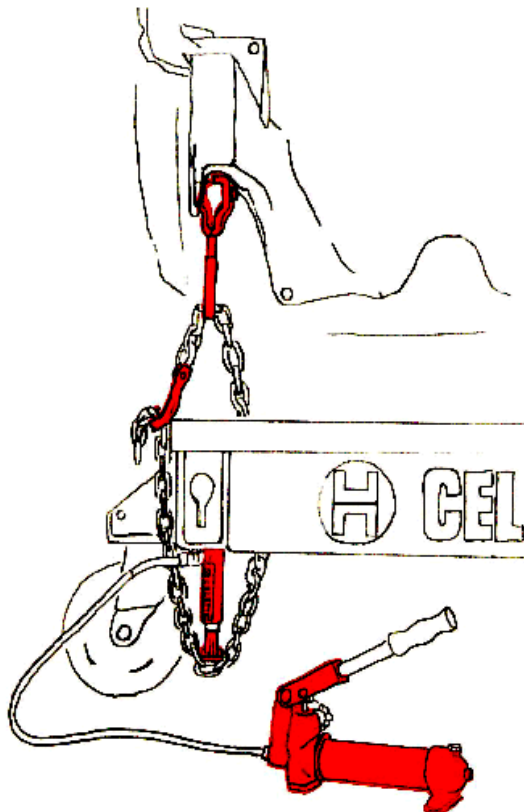


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Body aligning instructions

Pulling to Downward Direction

Use the following method to pull an object downwards when a 10 – ton ram can not be set because clearance between a bench and a vehicle is too small.



Required parts



ATD.1312

Clamp 100mm



VA4.054

4 – ton ram



SK.1405

Connector with male / male ends



SK.3401

Flat base



CN.xxxx

Chain

Note:

Be careful that the coupler of a ram must not interfere with a bench or chains.

Operate the pulling machine from the position which is not dangerous even when a ram came off.



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Body aligning instructions

Pulling to Downward Direction

Pull an object downwards using a seal – clamp.

Note:

A foot step and adjacent area is pulled downwards or upwards the using the pulling machine with the MZ jig system together , by turning the nut of the strut of a seal – clamp.

Be careful not to give the secondary damage to the area which is supported by the jig. Provide an additional support to the other areas using a jack or the like.

Use a pulling unit and pulley block when performing a strong downward pulling work.

