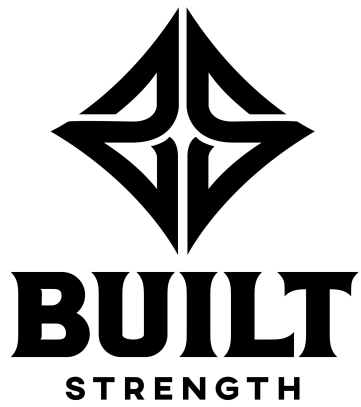
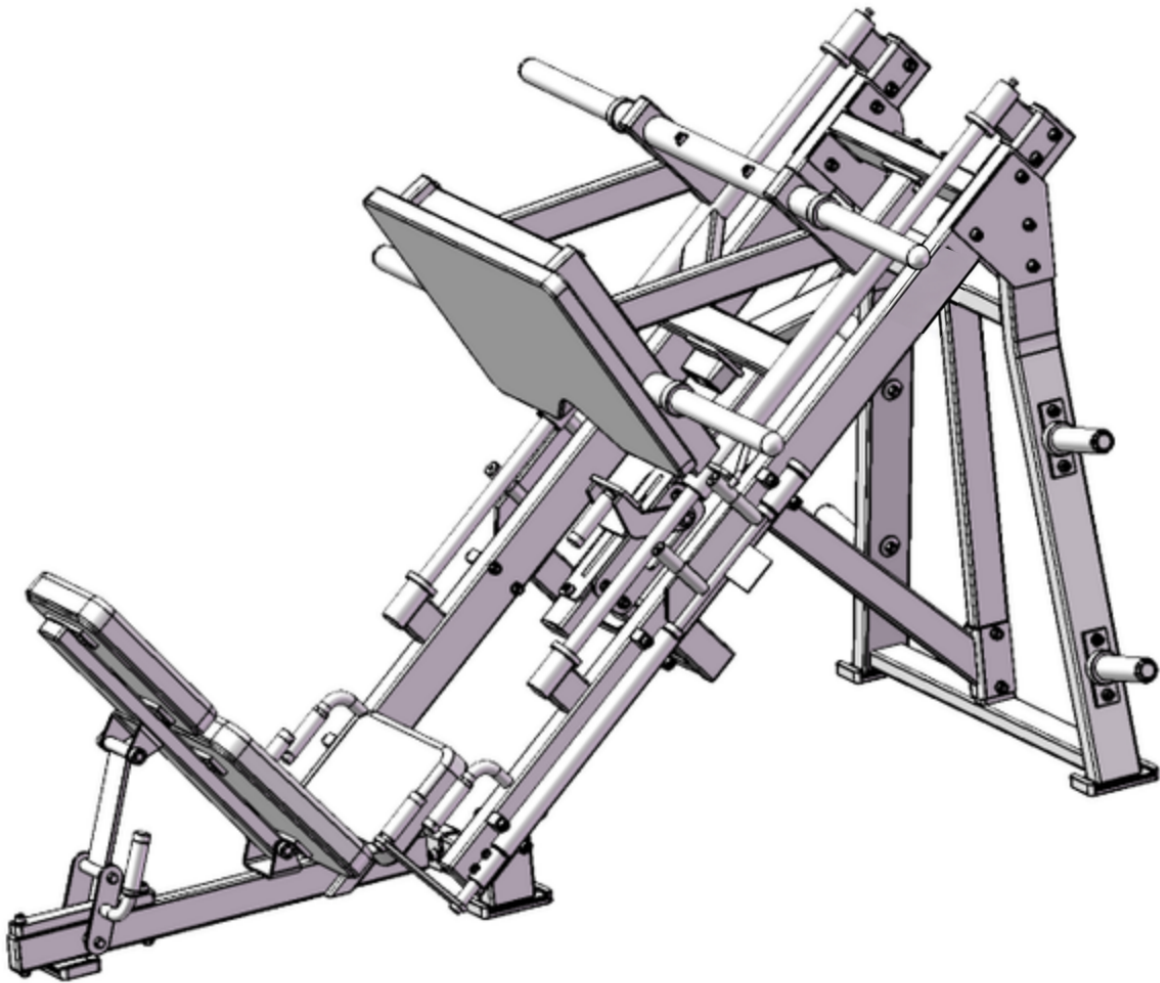




INFINITE SERIES

Linear Leg Press (New)

Assembly & Owner Guide



BUILT TO PERFORM.

Read before assembly. Keep this guide for future reference.

01 / PREPARE

Before you begin

Set up your space

Assemble indoors on a level, stable surface with clear access around the equipment. Protect the floor and allow enough room to lay out the frame and hardware.

Check every part

Unpack and compare the components with the illustrated lists. Keep hardware grouped by stage. Reference numbers identify parts in the drawings; they may restart at each stage. Quantities are for the corresponding source list and should not be added across stages.

Prepare tools and help

Have metric hex keys and suitable metric wrenches or sockets ready for the listed fasteners. Use sufficient help to support heavy frames and moving assemblies. Keep hands clear of pinch points and never work beneath an unsupported load.

Follow the assembly drawings

Work through the stages in order. Match each numbered callout with its parts list. Confirm orientation before fitting fasteners. A part described as an assembly is supplied as a component; the wording does not instruct you to weld it.

Check connections before use

Use the specified hardware at each joint. Confirm that fasteners are secure and moving parts operate freely. If a part, dimension or connection is unclear, stop and contact Build A Gym before continuing.

ASSEMBLY SUPPORT

Build A Gym • (512) 591-8553 • buildagym.com

02 / SAFETY

Use and care safely

- Use the equipment indoors in a dry, supervised area. Keep the surrounding floor level and unobstructed.
- Children under 12 must not use this equipment. Provide appropriate supervision and assistance for other users who need it.
- Before each use, inspect moving components, fasteners, pins and attachments. Have loose or damaged parts corrected before use.
- Wear suitable exercise clothing and athletic shoes. Warm up before exercise and use slow, controlled movements.
- Increase resistance gradually. Stop exercising if you feel pain, discomfort or anything unusual, and consult a doctor.
- Consult your doctor before starting an exercise program.
- Keep hands, clothing and other objects clear of moving parts. Make sure adjustment pins and any safety stops are fully engaged.
- Clearly mark the equipment “Out of Use” during servicing or repair. Keep this guide available for future reference.

Your assembly sequence

Stage 1 > Stage 2 > Stage 3 > Stage 4 > Stage 5 > Final inspection

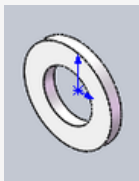
Use the PDF bookmarks to jump directly to a stage.

STAGE 1 / PARTS

Identify your components

REF 1

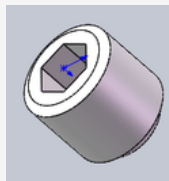
QTY 6



Washer

REF 2

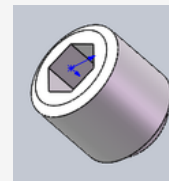
QTY 4



Set screw (ref 2)

REF 3

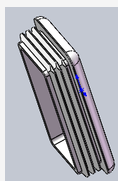
QTY 12



Set screw (ref 3)

REF 4

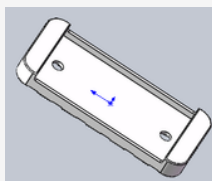
QTY 3



Rectangular tube plug

REF 5

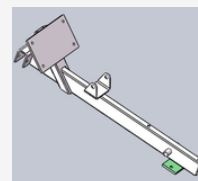
QTY 1



Frame foot

REF 6

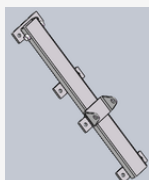
QTY 1



Seat support frame

REF 7

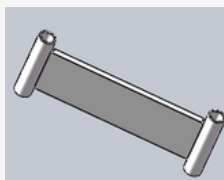
QTY 1



Backrest frame

REF 8

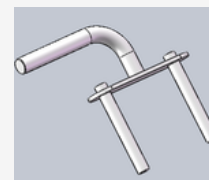
QTY 1



Connecting link

REF 9

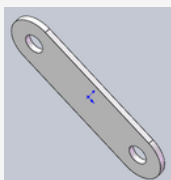
QTY 1



Adjustment handle assembly

REF 10

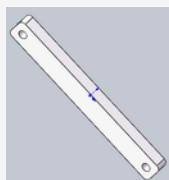
QTY 1



Grooved plate

REF 11

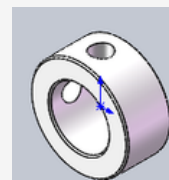
QTY 1



Retaining plate

REF 12

QTY 6



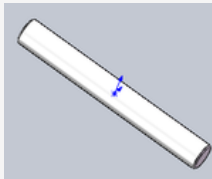
Limit sleeve

STAGE 1 / PARTS

Identify your components

REF 13

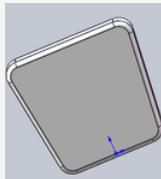
QTY 2



Pivot shaft

REF 14

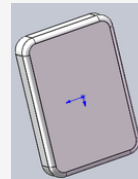
QTY 1



Large back pad

REF 15

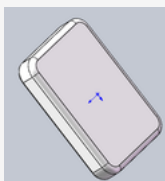
QTY 1



Small back pad

REF 16

QTY 1



Seat pad

REF 17

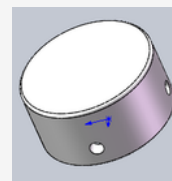
QTY 1



Grip sleeve

REF 18

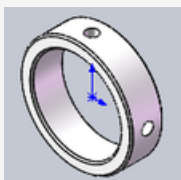
QTY 1



Handle cap

REF 19

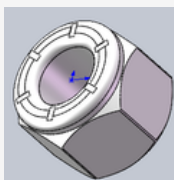
QTY 1



Handle inner ring

REF 20

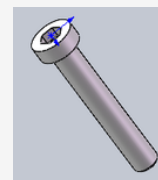
QTY 4



Nylon locknut

REF 21

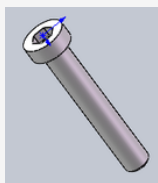
QTY 12



Socket screw (ref 21)

REF 22

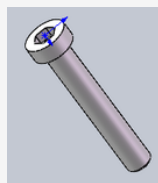
QTY 2



Socket screw (ref 22)

REF 23

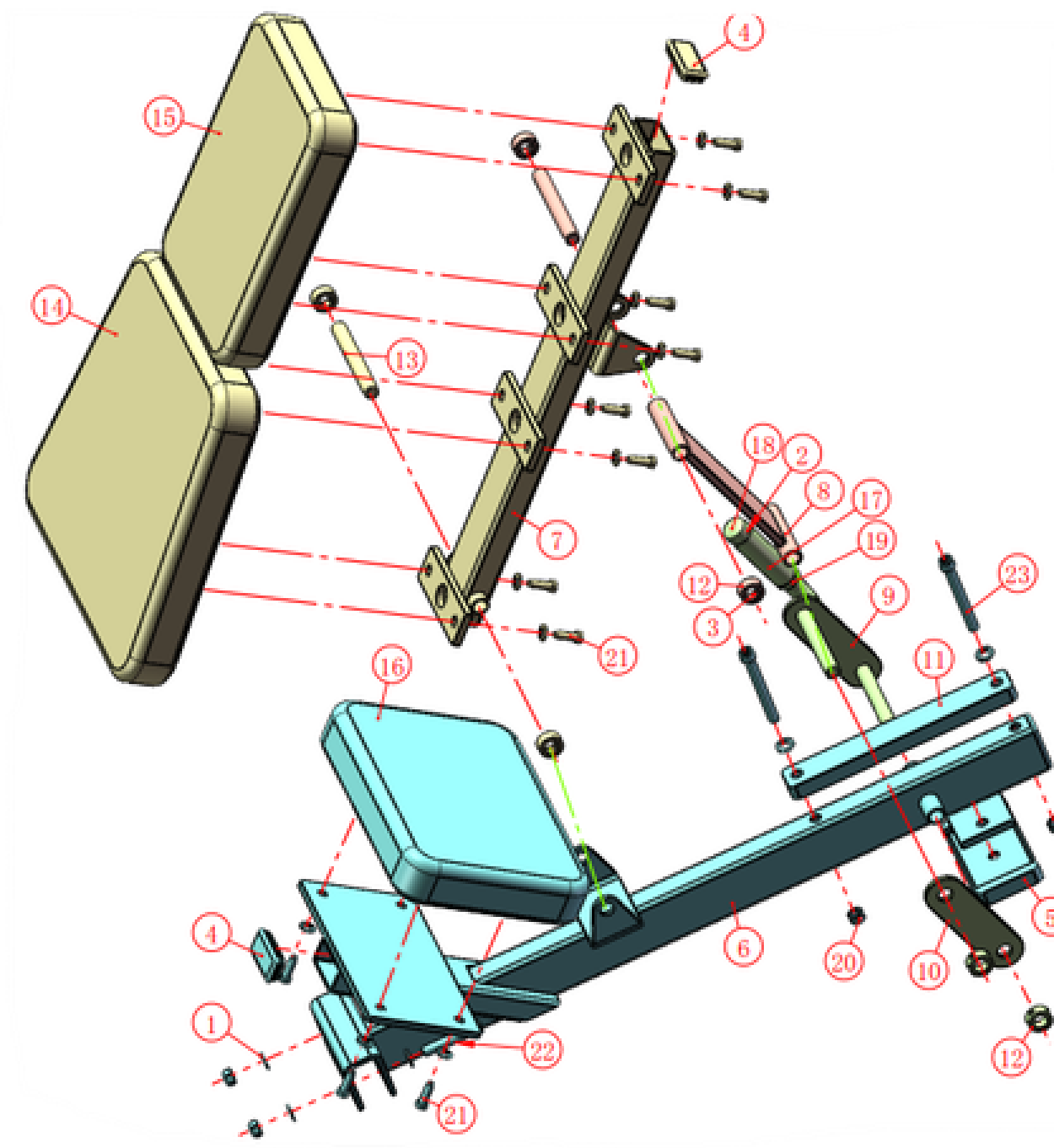
QTY 2



Socket screw (ref 23)

STAGE 1 / DRAWING

Assembly stage 1



Use the parts references and the following numbered instructions.

Stage 1: Build the Seat Assembly

These are prepared subassemblies; final frame joining and sled installation are in Stage 5. Reference numbers restart by stage.

1. Confirm the hardware kit

Lay out seat frame 6, backrest frame 7, link 8 and adjustment handle 9. The source gives no fastener diameters, lengths, torque or load limits. Have Build A Gym identify the supplied fasteners by reference and confirm these specifications before assembly. Keep sizes grouped by joint.

2. Connect the backrest linkage

Support backrest frame 7 over seat frame 6. Fit pivot shafts 13, connecting link 8 and limit sleeves 12 in the illustrated order. Use the shown set screws 2 and 3 only after their sizes and retention method are confirmed. Verify each pivot is positively retained.

3. Fit the adjustment handle and retaining plates

Fit handle assembly 9, grooved plate 10 and retaining plate 11 at the shown seat-frame joint with screws 23 and nuts 20. Fit grip 17, inner ring 19 and end cap 18. Confirm the omitted handle-lock setup before releasing the supported backrest.

4. Attach pads and check the seat lock

Fit back pads 14 and 15 and seat pad 16 using screws 21 and 22 and washers 1 at their depicted mounts. Fit foot 5 and plugs 4. Check the backrest locks fully at each intended angle and every pivot, pad and end retainer remains secure.

Check before continuing

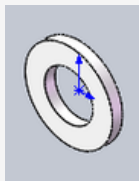
Hardware specifications, seat pivots, pads and backrest lock are confirmed.

STAGE 2 / PARTS

Identify your components

REF 1

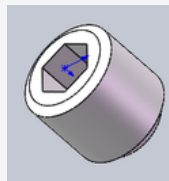
QTY 37



Washer

REF 2

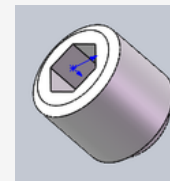
QTY 4



Set screw (ref 2)

REF 3

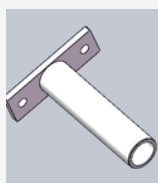
QTY 4



Set screw (ref 3)

REF 4

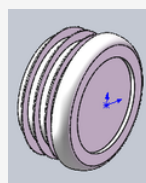
QTY 4



Storage horn assembly

REF 5

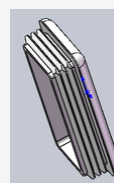
QTY 4



Horn end plug

REF 6

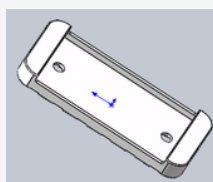
QTY 4



Tube plug

REF 7

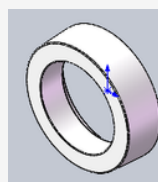
QTY 2



Frame foot

REF 8

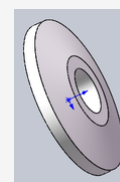
QTY 4



Horn buffer

REF 9

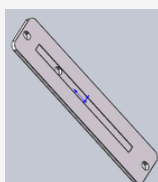
QTY 11



Plastic washer

REF 10

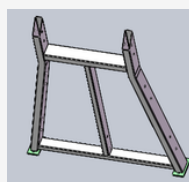
QTY 1



Adjustment front plate

REF 11

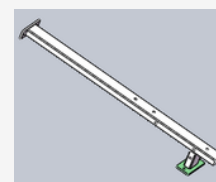
QTY 1



Rear frame

REF 12

QTY 1



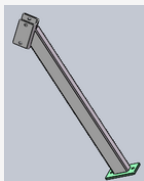
Sliding beam

STAGE 2 / PARTS

Identify your components

REF 13

QTY 1



Lower support

REF 14

QTY ?

Not listed in source

REF 15

QTY ?

Not listed in source

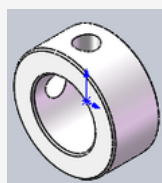
REF 16

QTY ?

Not listed in source

REF 17

QTY 2



Limit sleeve

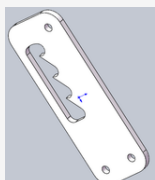
REF 18

QTY ?

Handle shaft: confirm kit

REF 19

QTY 2



Selection plate

REF 20

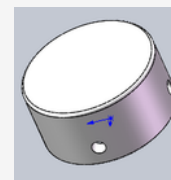
QTY 1



Grip sleeve

REF 21

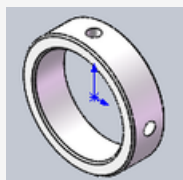
QTY 1



Handle cap

REF 22

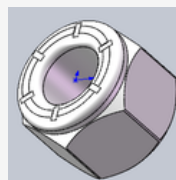
QTY 1



Handle inner ring

REF 23

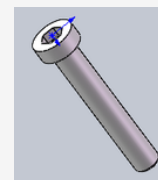
QTY 24



Nylon locknut

REF 24

QTY 3



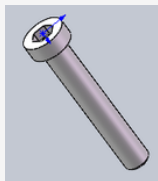
Socket screw (ref 24)

STAGE 2 / PARTS

Identify your components

REF 25

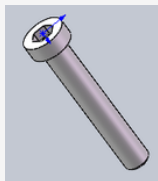
QTY 3



Socket screw (ref 25)

REF 26

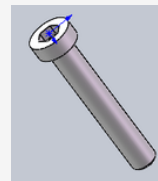
QTY 13



Socket screw (ref 26)

REF 27

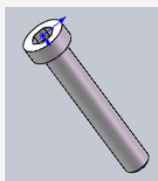
QTY 2



Socket screw (ref 27)

REF 28

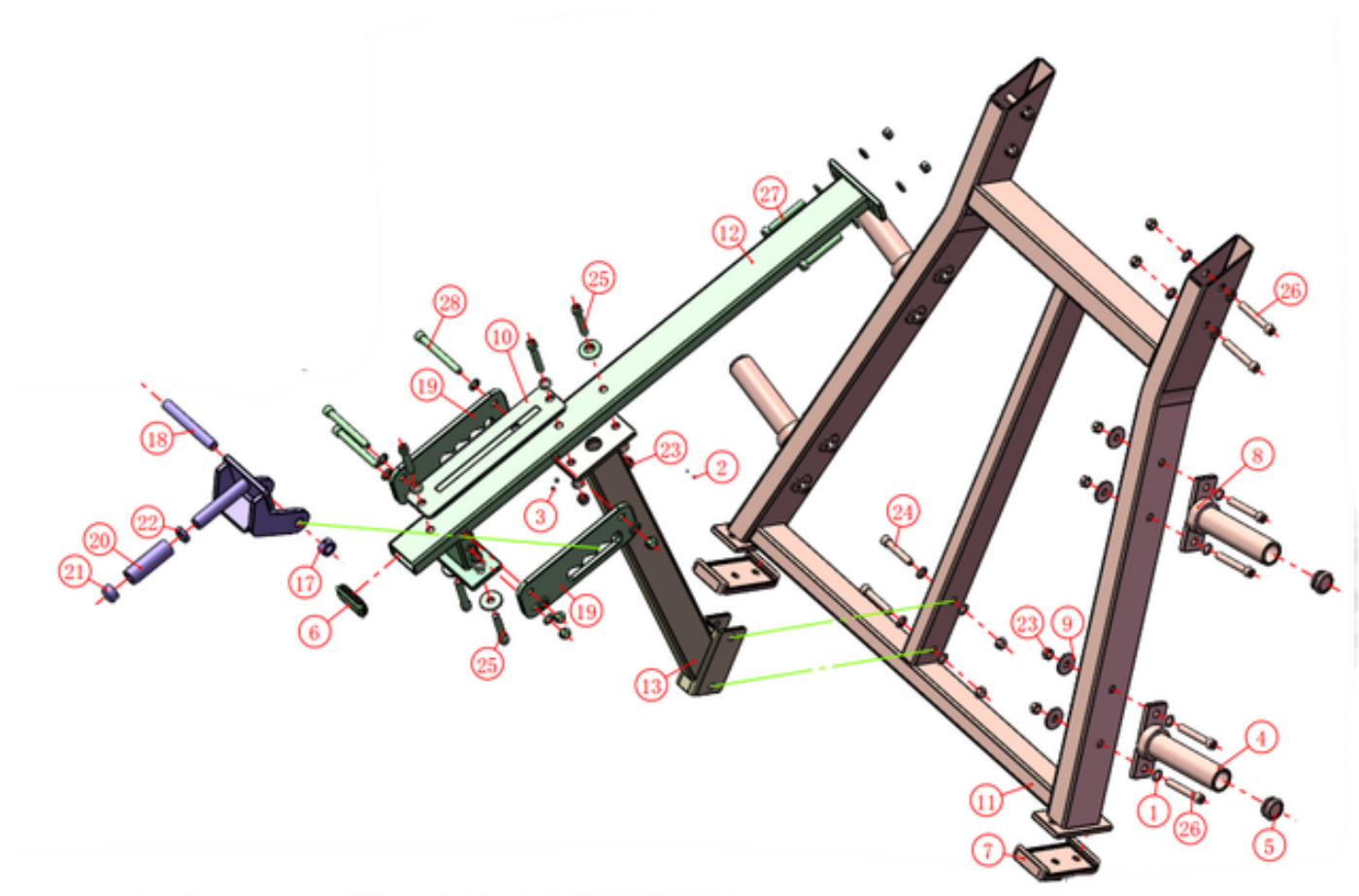
QTY 3



Socket screw (ref 28)

STAGE 2 / DRAWING

Assembly stage 2



Use the parts references and the following numbered instructions.

Stage 2: Prepare the Rear Support

Do not substitute a visually similar fastener or guess the missing handle-shaft details.

5. Join the rear frame and sliding beam

Support rear frame 11, sliding beam 12 and lower support 13. Connect the illustrated joints using screws 24–28, washers 1, plastic washers 9 and nuts 23 only at their indicated locations. Confirm each fastener size before fitting. Keep the frame supported during alignment.

6. Fit the adjustment mechanism

Fit front plate 10, selection plates 19 and limit sleeves 17 around beam 12 as shown. Install the handle shaft identified as 18, grip 20, inner ring 22 and cap 21. Reference 18 is shown but omitted from the source list; confirm its part, retention and quantity. References 14–16 are also absent.

7. Fit the storage horns and feet

Attach four storage horns 4 with their indicated screws 26, washers 1, plastic washers 9 and nuts 23. Fit buffers 8 and end plugs 5. Fit feet 7 and tube plugs 6, then verify the rear-support adjustment engages securely without movement.

Check before continuing

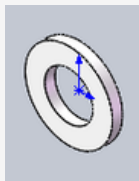
Rear support, adjustment lock, storage horns and feet are secure.

STAGE 3 / PARTS

Identify your components

REF 1

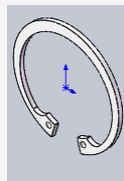
QTY 12



Washer

REF 2

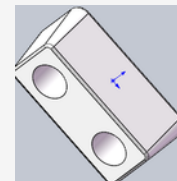
QTY 4



Internal retaining ring

REF 3

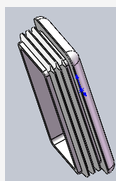
QTY 1



Buffer pad

REF 4

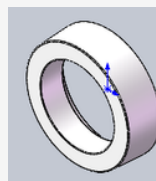
QTY 4



Tube plug

REF 5

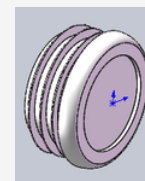
QTY 4



Horn buffer

REF 6

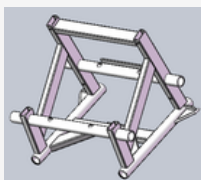
QTY 4



Horn end plug

REF 7

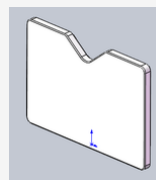
QTY 1



Sled carriage

REF 8

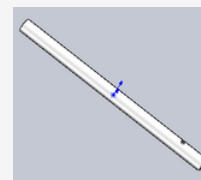
QTY 1



Footplate

REF 9

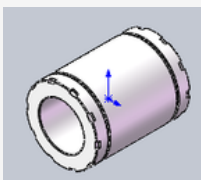
QTY 4



Long loading horn

REF 10

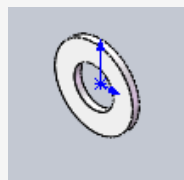
QTY 4



Linear bearing

REF 11

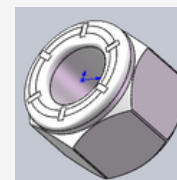
QTY 4



Washer (ref 11)

REF 12

QTY 6



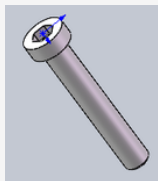
Nylon locknut

STAGE 3 / PARTS

Identify your components

REF 13

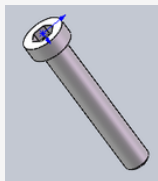
QTY 4



Socket screw (ref 13)

REF 14

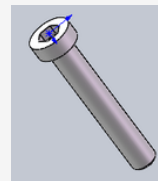
QTY 2



Socket screw (ref 14)

REF 15

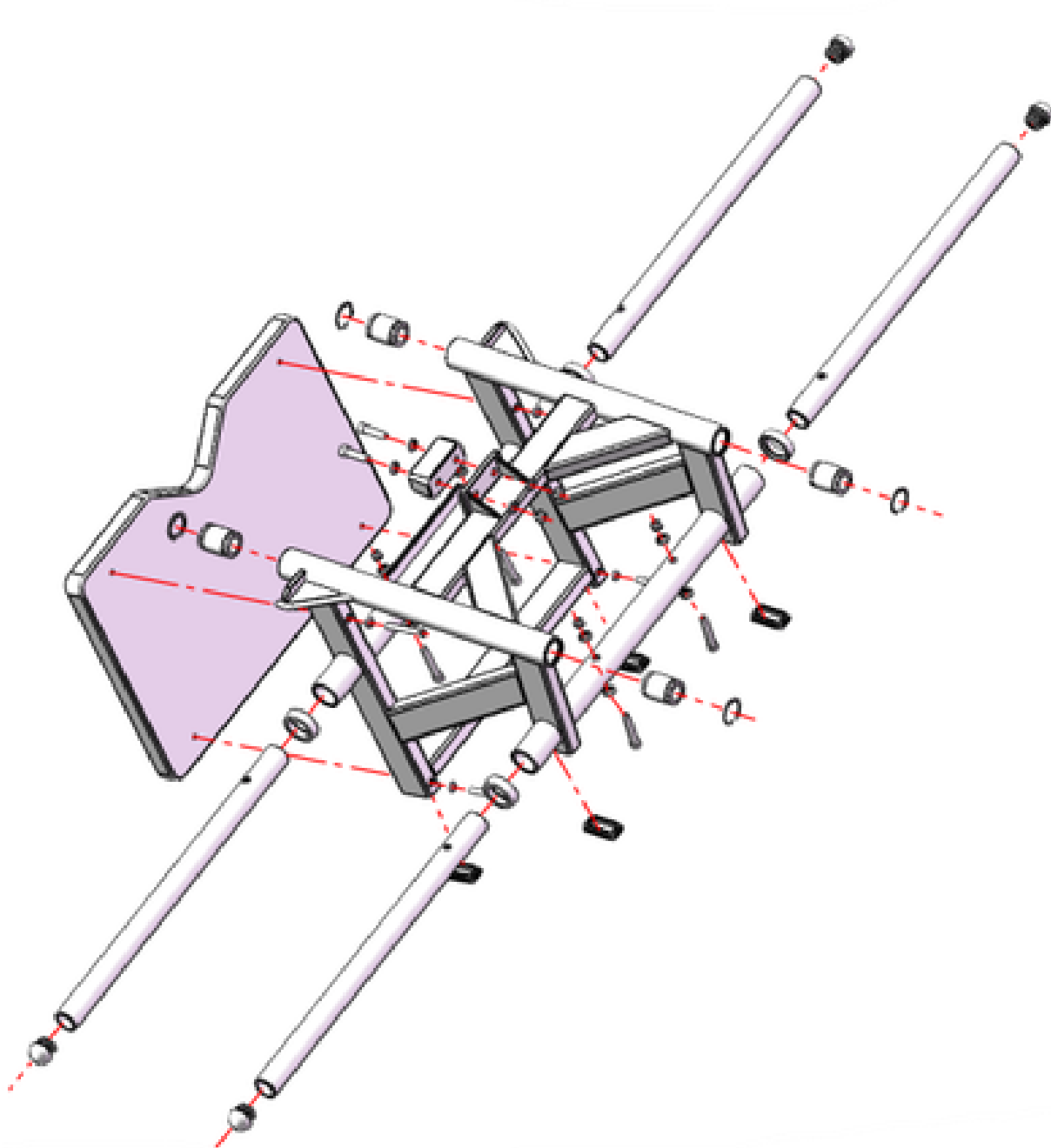
QTY 4



Socket screw (ref 15)

STAGE 3 / DRAWING

Assembly stage 3



Use the parts references and the following numbered instructions.

Stage 3: Prepare the Sled

The sled is heavy and can roll or slide unexpectedly. Do not work beneath it or release its support.

8. Support the sled and retain its bearings

Keep carriage 7 supported on a protected surface. Identify four linear bearings 10 and retaining rings 2. Fit them in the orientation shown and confirm each ring seats fully in its groove. Preserve factory bearings; confirm fit, lubrication and installation details if supplied loose.

9. Fit the footplate and buffer

Attach footplate 8 and buffer 3 using the matched screws 13–15, washers 1 and 11 and nuts 12 at the illustrated joints. The drawing lacks readable numeric callouts; confirm the exact fastener allocation against the supplied kit before fastening.

10. Fit the loading horns

Fit four long horns 9 with their buffers 5 and end plugs 6 at the depicted sled mounts. Fit tube plugs 4. Check horn retention, footplate fastening and bearing retainers. Keep the sled restrained; do not slide it onto unsecured guide shafts.

Check before continuing

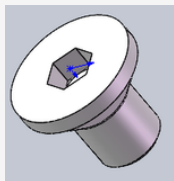
Sled bearings, retaining rings, footplate and loading horns are verified.

STAGE 4 / PARTS

Identify your components

REF 1

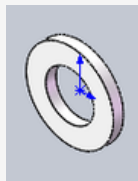
QTY 4



Countersunk screw

REF 2

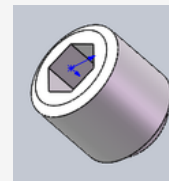
QTY 58



Washer

REF 3

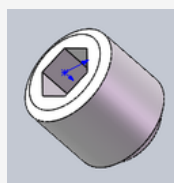
QTY 17



Set screw (ref 3)

REF 4

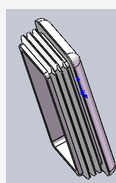
QTY 4



Set screw (ref 4)

REF 5

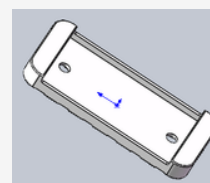
QTY 2



Tube plug

REF 6

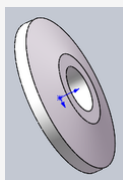
QTY 2



Frame foot

REF 7

QTY 2



Plastic washer

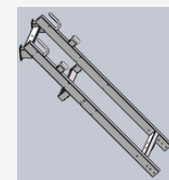
REF 8

QTY 2

Cosmetic badge: not illustrated

REF 9

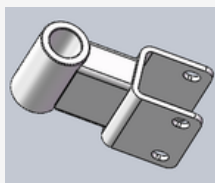
QTY 1



Main rail frame

REF 10

QTY 2



Guide-shaft upper bracket

REF 11

QTY 1



Right safety handle

REF 12

QTY 1



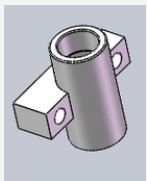
Left safety handle

STAGE 4 / PARTS

Identify your components

REF 13

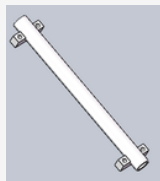
QTY 2



Upper safety pivot bracket

REF 14

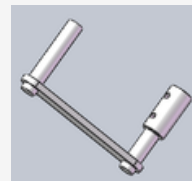
QTY 2



Lower safety linkage

REF 15

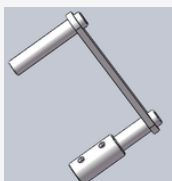
QTY 1



Right adjustment handle

REF 16

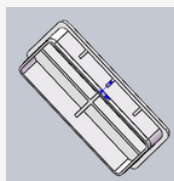
QTY 1



Left adjustment handle

REF 17

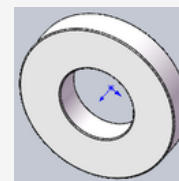
QTY 4



Tube plug

REF 18

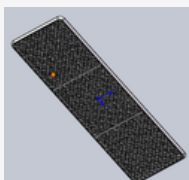
QTY 4



End buffer

REF 19

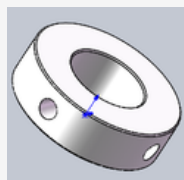
QTY 2



Footplate tread panel

REF 20

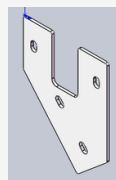
QTY 2



Inner collar

REF 21

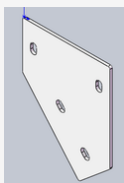
QTY 2



Mounting plate 1

REF 22

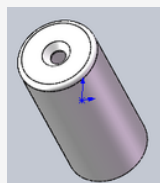
QTY 2



Mounting plate 2

REF 23

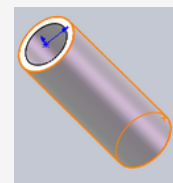
QTY 4



Long nylon limit sleeve

REF 24

QTY 2



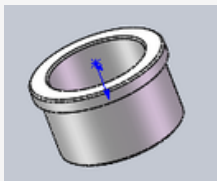
Grip sleeve

STAGE 4 / PARTS

Identify your components

REF 25

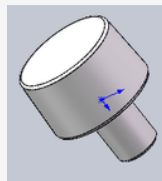
QTY 8



Sintered bushing

REF 26

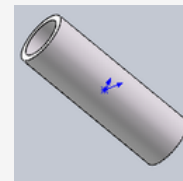
QTY 4



Small buffer

REF 27

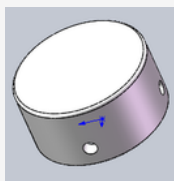
QTY 2



Handle grip sleeve

REF 28

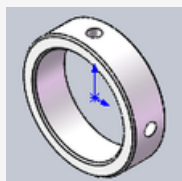
QTY 4



Handle cap

REF 29

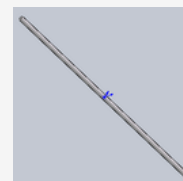
QTY 4



Handle inner ring

REF 30

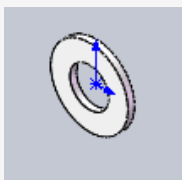
QTY 2



Guide shaft

REF 31

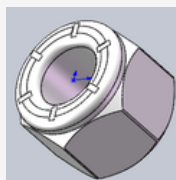
QTY 4



Washer (ref 31)

REF 32

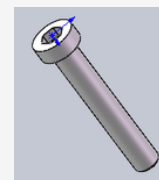
QTY 30



Nylon locknut

REF 33

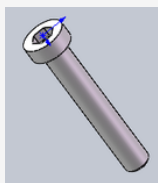
QTY 2



Socket screw (ref 33)

REF 34

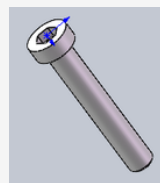
QTY 4



Socket screw (ref 34)

REF 35

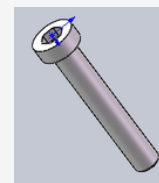
QTY 2



Socket screw (ref 35)

REF 36

QTY 2



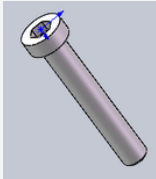
Socket screw (ref 36)

STAGE 4 / PARTS

Identify your components

REF 37

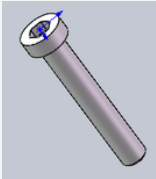
QTY 12



Socket screw (ref 37)

REF 38

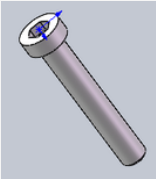
QTY 2



Socket screw (ref 38)

REF 39

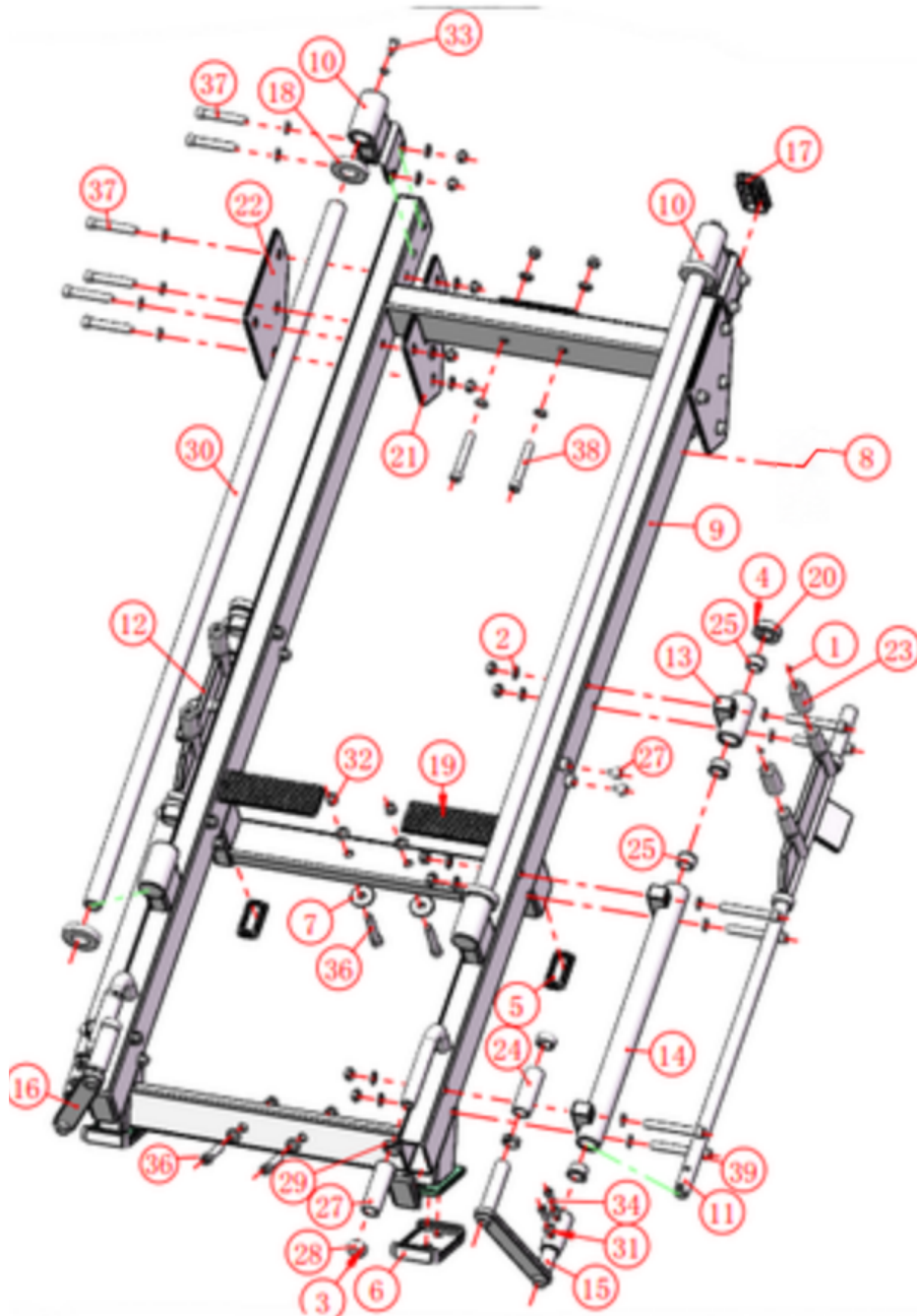
QTY 12



Socket screw (ref 39)

STAGE 4 / DRAWING

Assembly stage 4



Use the parts references and the following numbered instructions.

Stage 4A: Prepare the Rail Frame

Use Stage 4 references. Complete guide-shaft retention only after the supported sled is correctly located.

11. Position the frame and guide components

Support main rail frame 9 in its illustrated orientation. Identify guide shafts 30, upper brackets 10, end buffers 18 and mounting plates 21 and 22. Plan the Stage 5 sled insertion before closing both shaft ends; do not trap the sled outside the completed rails.

12. Fit the rail mounting hardware

Fit plates 21 and 22 and upper brackets 10 with the depicted screws 33, 37 and 38, washers 2 and nuts 32. Keep the two guide shafts parallel. Confirm shaft-retention and alignment requirements before securing their ends; no tolerances or tightening values are stated.

13. Fit the base fittings

Fit feet 6, plugs 5 and 17, plastic washers 7 and screws 36 at their shown locations. Install tread panels 19 with the illustrated fasteners. Cosmetic item 8 is omitted from the pictures and is not a mechanical joint or safety component.

Check before continuing

Rail mounts, feet, end buffers and tread panels are confirmed.

Stage 4B: Assemble Both Safety Catches

Safety catches must be checked on both sides. Do not use the machine with uncertain catch engagement.

14. Fit the upper and lower safety pivots

Fit bushings 25 into upper pivot brackets 13 and the lower linkage 14 as shown. Position the right and left safety handles 11 and 12 through their respective pivots. Fit nylon sleeves 23 and collars 20 with the indicated countersunk screws 1 and set screws 4.

15. Fit the adjustment handles and stops

Fit right handle 15 and left handle 16 at their marked connections with the shown screws 34 and 39, washers 31 and nuts 32. Fit buffers 26, grips 24 and 27, rings 29 and caps 28 with set screws 3. Confirm all pin, shaft and handle retainers against the actual kit.

16. Verify both catches together

With the sled still supported, operate the two safety mechanisms through their intended positions. Confirm both sides engage positively and evenly, neither linkage binds and the handles cannot disengage unintentionally. Obtain any omitted catch-adjustment specification before testing with the sled.

Check before continuing

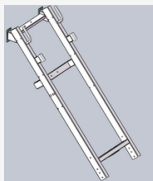
Both catch linkages, stops, handles and retaining components are verified.

STAGE 5 / PARTS

Identify your components

REF 1

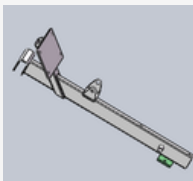
QTY 1



Main rail assembly

REF 2

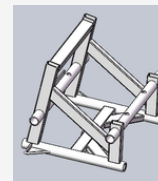
QTY 1



Seat assembly

REF 3

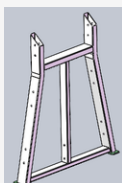
QTY 1



Sled assembly

REF 4

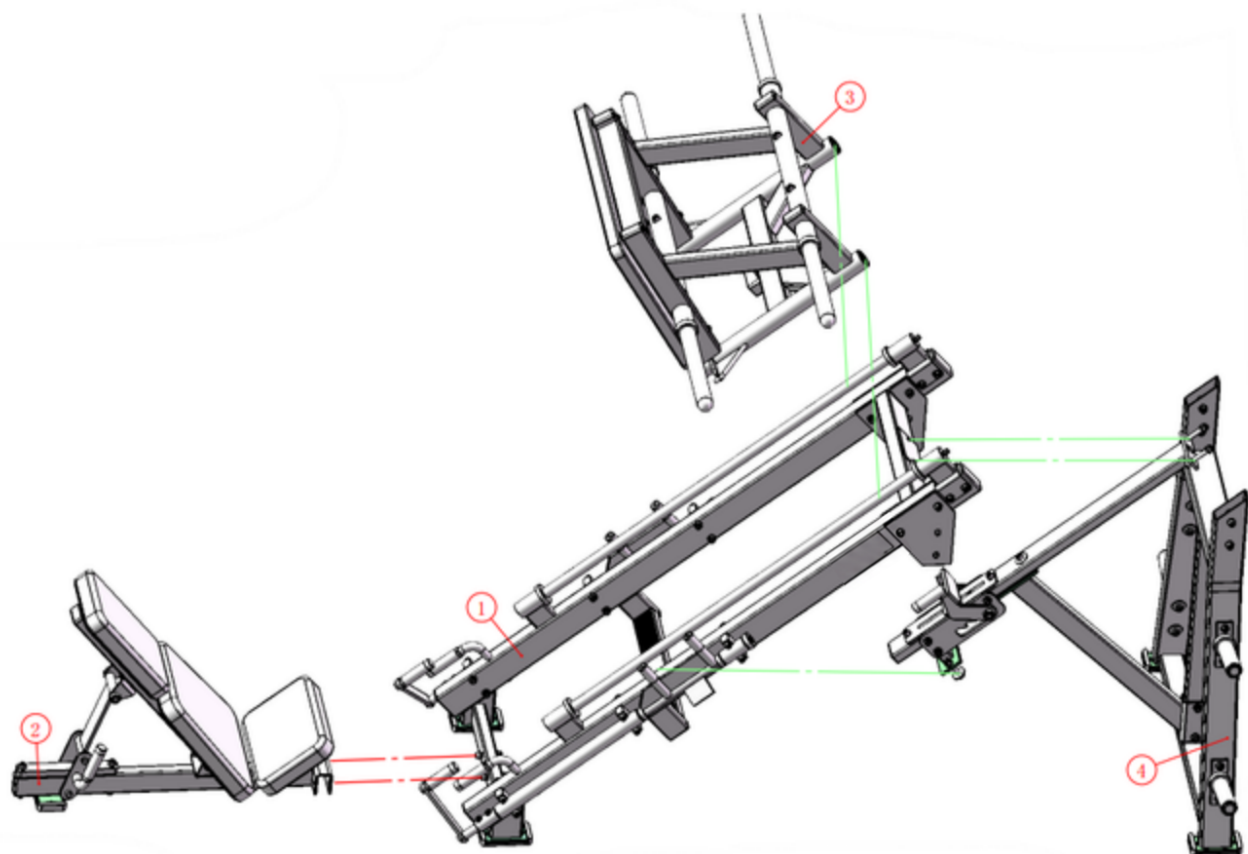
QTY 1



Rear frame assembly

STAGE 5 / DRAWING

Assembly stage 5



Use the parts references and the following numbered instructions.

Stage 5: Join, Secure and Test

Do not use until all omitted hardware, guide-retention, safety-catch and capacity specifications have been confirmed.

17. Join the front and rear assemblies

Support rail assembly 1 at both ends. Align seat assembly 2 with the front connections and rear frame assembly 4 with the rear connections shown. The overview lists no joining hardware: identify and confirm the supplied bolts, washers, nuts and their torque before fastening these joints.

18. Install and retain the sled

Use suitable lifting support to align sled 3 with both guide shafts. Follow the confirmed bearing-installation method and keep the sled restrained while locating it on the guides. Complete both shaft-end brackets and retainers, then verify end buffers and both safety catches before removing lifting support.

19. Inspect and test without added plates

Complete the frame alignment and confirmed fastening; verify any floor-fixing requirement. Check the backrest lock, footplate, horns, guide shafts and catches. With help controlling the sled, test slow unloaded travel and even engagement of both catches. Do not stand in the sled path.

20. Complete the controlled first-use check

Obtain the missing rated capacity and loading requirements before adding plates. After unloaded checks pass, use the minimum appropriate test load and move slowly. Verify smooth travel, stable pads, secure horns and reliable reracking on both sides. Stop for binding, looseness or unequal catch engagement.

Check before continuing

Sled retention, both catches, backrest lock and all structural joints pass inspection.

FINAL CHECK

Ready for the first use?

☐ **Frame and hardware**

Confirm that the frame is stable, all required hardware is installed and all connections are secure.

☐ **Adjustments and safeties**

Check that adjustment pins, locking mechanisms and any safety stops engage fully. Verify that pads and handles are secure.

☐ **Moving parts**

Carefully check the full range of movement. Confirm that moving assemblies clear the frame and guards without binding.

☐ **Product-specific inspection**

Verify guide-shaft ends, bearing rings, both safety catches, loading horns and backrest lock. Confirm hardware specifications and rated capacity before loading; test controlled travel and reracking.

☐ **Keep the equipment ready**

Inspect before every use. Wipe contact surfaces dry after use. Have a qualified technician address damaged parts, unusual movement or noise before further exercise.

Need help with assembly?

Contact Build A Gym with your product name, assembly stage, part reference and a clear photo of the issue.

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