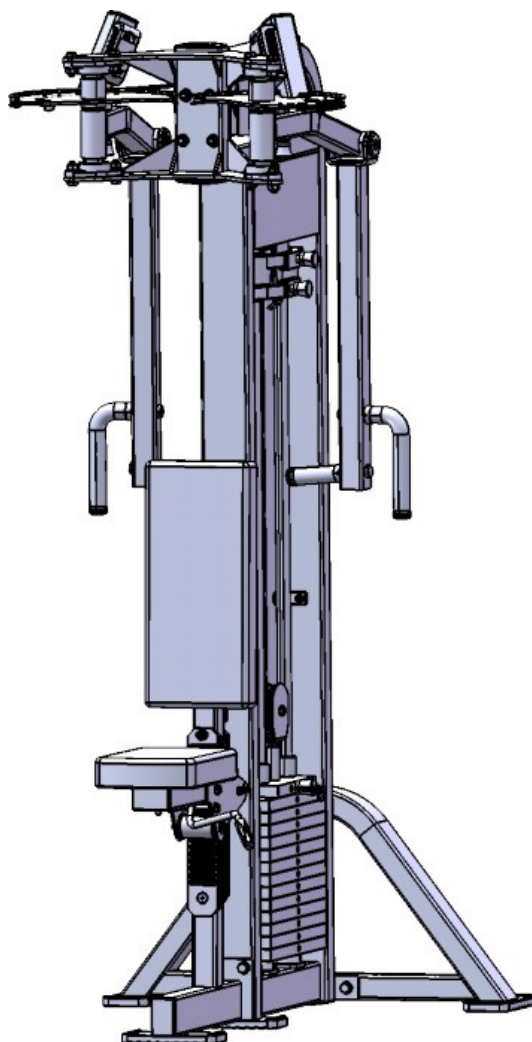


INFINITE SERIES

Pec Fly / Rear Delt

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

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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 → Final inspection

Use the PDF bookmarks to jump directly to a stage.

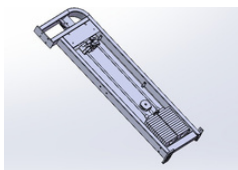
STAGE 1 / PARTS

Identify your components

Match each reference and quantity to the drawing for this stage.

REF 1

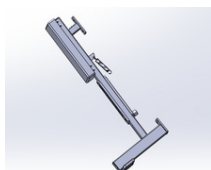
QTY 1



Small door assembly

REF 2

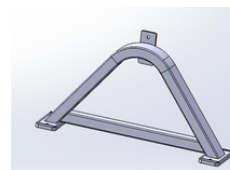
QTY 1



Main frame assembly

REF 3

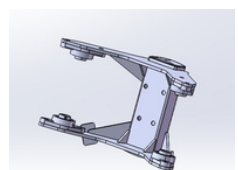
QTY 1



Rear bracket assembly

REF 4

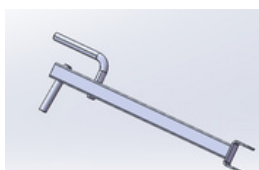
QTY 1



Top bracket assembly

REF 5

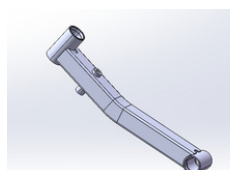
QTY 2



Arm assembly

REF 6

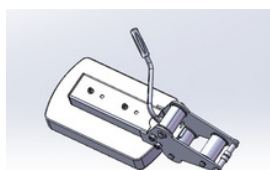
QTY 2



Linkage arm assembly

REF 9

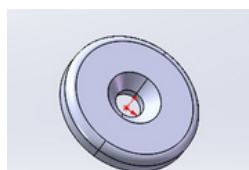
QTY 1



Seat assembly

REF 15

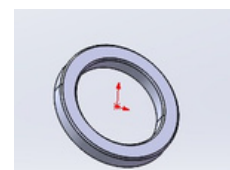
QTY 4



Aluminum end cap

REF 18

QTY 6



Spacer sleeve

REF 30

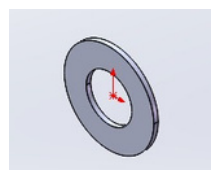
QTY 8



12 mm spring washer

REF 31

QTY 32



12 mm washer

REF 36

QTY 4



M10 x 20 Countersunk socket screw

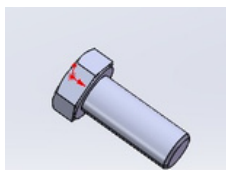
STAGE 1 / PARTS

Identify your components

Match each reference and quantity to the drawing for this stage.

REF 44

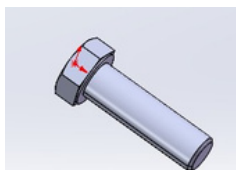
QTY 8



M12 × 30 hex screw

REF 45

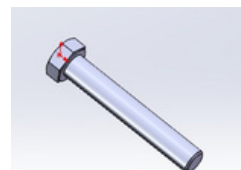
QTY 8



M12 × 40 hex screw

REF 46

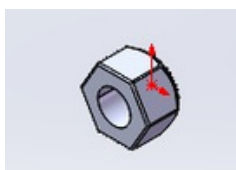
QTY 4



M12 × 75 hex screw

REF 54

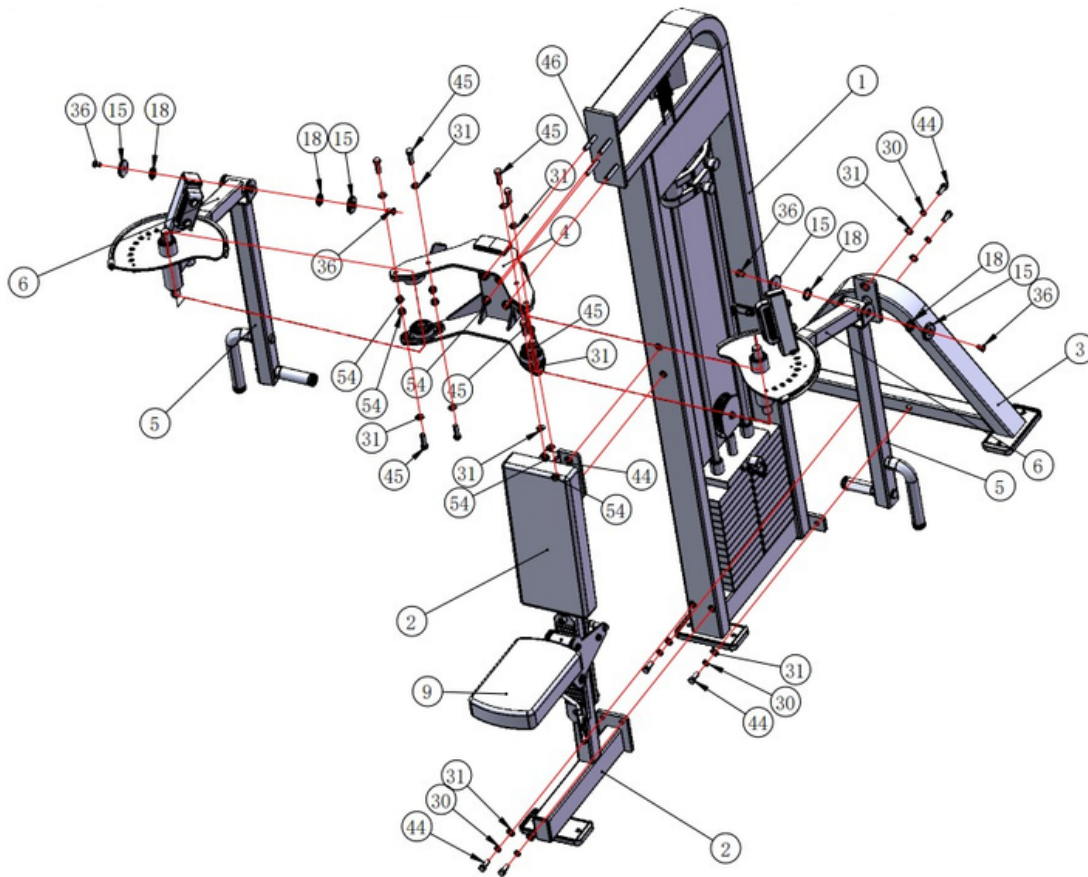
QTY 12



M12 nut

STAGE 1 / DRAWING 1 OF 1

Assembly stage 1



Match the numbered callouts to the Stage 1 parts list. Position the components as shown and use the listed hardware at each connection.

Stage 1: Frame, Seat and Top Bracket

Keep tall frames braced and the overhead bracket supported while its connections are made.

1. Support the tower and fit the rear bracket

Using Stage 1 references, brace tower 1 upright on a protected level floor. Fit rear bracket 3 at its depicted tower connections with M12 × 30 bolts 44, spring washers 30 and washers 31. Keep the tower supported until the complete footprint is stable.

2. Attach the main seat frame

Position main frame 2 in front of the tower as shown. Fit M12 × 30 bolts 44, spring washers 30 and washers 31 at the illustrated lower joints. Align all feet before final fastening.

3. Install the top bracket

With help, support top bracket 4 at the upper tower mount. Fit M12 × 75 bolts 46 and washers 31 with nuts 54 where shown. Complete its connection to the main frame using the depicted M12 × 40 bolts 45, washers 31 and nuts 54. Confirm all upper joints before releasing support.

4. Install and lock the seat

Fit seat assembly 9 on the main upright in its illustrated orientation. Preserve the supplied roller and adjustment mechanism. Confirm seat retention, pad fasteners and full locking-pin engagement; the source treats the seat as an assembly and does not detail loose internal parts.

Check before continuing

Tower, rear support, main frame, top bracket and seat are secure.

Stage 1: Fit Both Fly Arms

Mirror the illustrated left and right arrangements. Never use an adjustment pin as a substitute for a missing pivot retainer.

5. Fit the linkage arms

Support both linkage arms 6 at the matching left and right pivots on top bracket 4. Position spacer sleeves 18 and aluminum end caps 15 as shown, then retain the depicted connections with M10 × 20 countersunk screws 36. Preserve the handed orientation of the adjustment plates.

6. Install the handle arms

Fit arm assemblies 5 to their linkage pivots in the illustrated relationship. Complete the sleeve, end-cap and retaining-screw connections shown for each side. Confirm every shaft is retained before letting an arm hang unsupported.

7. Check both mode adjustments

Move each arm slowly with support and no cable tension. Confirm its adjustment pin engages fully at the intended pec-fly and rear-delt starting positions. Check the arms clear the top bracket, back pad and one another throughout their permitted movement.

8. Check pads, handles and frame joints

Verify the seat pad, back pad and handles are securely mounted. Align the feet and finish all confirmed frame connections. The source omits pivot setup and torque values; obtain these for any uncertain bearing, sleeve or retaining connection.

Check before continuing

Both arms are retained and all intended mode positions lock positively.

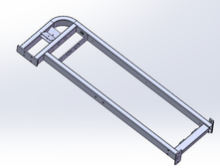
STAGE 2 / PARTS

Identify your components

Match each reference and quantity to the drawing for this stage.

REF 1

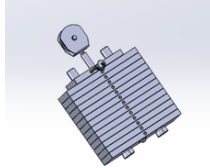
QTY 1



Small door assembly

REF 2

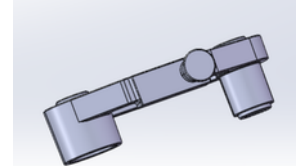
QTY 1



Weight stack assembly

REF 3

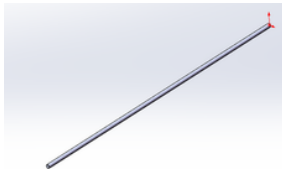
QTY 2



Secondary counterweight

REF 5

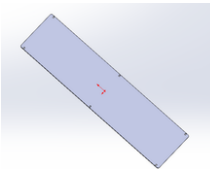
QTY 2



Weight-stack guide rod

REF 9

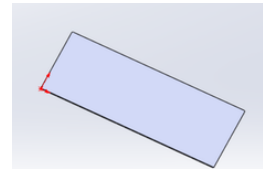
QTY 1



Rear weight-stack guard

REF 10

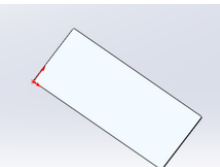
QTY 1



Right angle small protective plate

REF 11

QTY 1



Right angle small protective plate

REF 44

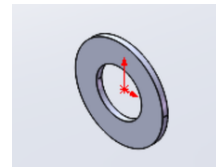
QTY 4



10 mm spring washer

REF 49

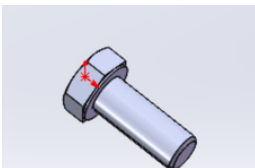
QTY 18



10 mm washer

REF 57

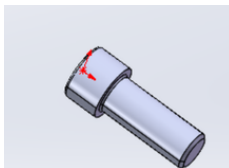
QTY 2



M10 x 25 hex screw

REF 64

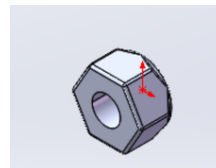
QTY 6



M8 x 20 Socket-head screw

REF 67

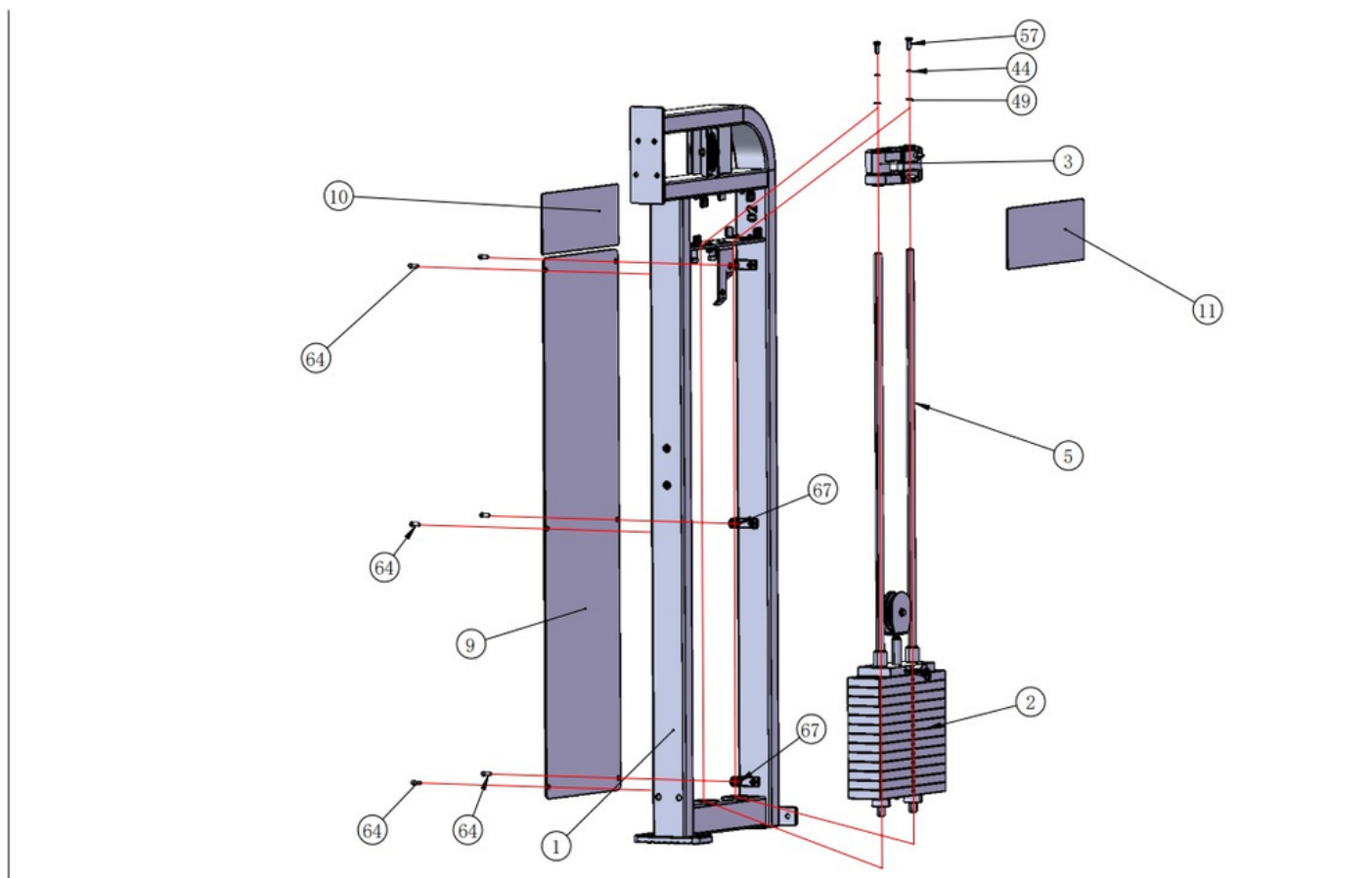
QTY 6



M8 nut

STAGE 2 / DRAWING 1 OF 1

Assembly stage 2



Match the numbered callouts to the Stage 2 parts list. Position the components as shown and use the listed hardware at each connection.

Stage 2: Install the Stack and Guides

The stack is shown as an assembly. Obtain the correct plate-loading and guide-retention details if supplied dismantled.

9. Position the stack and guide rods

Using Stage 2 references, keep stack assembly 2 fully supported at its base. Fit guide rods 5 through the stack and into the lower tower mounts as shown, preserving plate order and selector access. Confirm buffers and lower retention if these arrive loose; they are not separately detailed.

10. Fit the auxiliary weights and upper retainers

Position secondary weights 3 above the stack in the illustrated relationship. Secure the upper guide ends with M10 × 25 bolts 57, spring washers 44 and washers 49. Confirm both guide rods are parallel and retained at both ends.

11. Inspect the stack pulley and selector

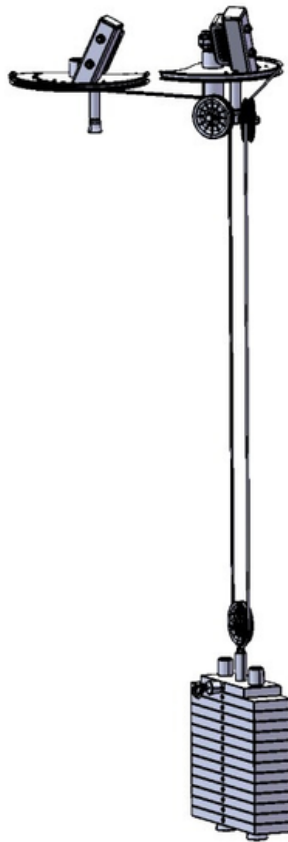
Check the stack-mounted pulley and its support remain securely attached to the top assembly. Confirm selector-pin engagement and that the stack rests fully down. Keep rear guard 9 and small guards 10 and 11 accessible for cable inspection.

Check before continuing

Stack, guides, auxiliary weights, selector and stack-pulley retention are confirmed.

STAGE 3 / DRAWING 1 OF 1

Assembly stage 3



Trace both arm connections and the stack pulley using this schematic and the following steps. Confirm cable end fittings, wrap directions and pulley retention before tensioning.

Stage 3: Cable, Guards and Test

Resolve all uncertain cable, pivot and guard details before exercise.

12. Trace the paired-arm cable system

Keep both arms supported and the stack down. Follow the schematic's upper arm/cam connections, upper pulley and the two descending cable runs around the stack-mounted pulley. Identify each arm-side attachment and cam wrap on the actual machine before tensioning.

13. Verify all cable attachments

Check both arm connections, cable locking hardware, the upper pulley retainer and the stack-pulley support. The source does not give complete terminal details, cable length or tension limits; obtain those for loose or uncertain connections. Check both exercise settings without allowing a cable to leave its groove.

14. Fit guards and finish fastening

Fit rear guard 9 with M8 × 20 screws 64 and M8 nuts 67 at the depicted mounts. Fit small guards 10 and 11 using their confirmed hardware. Check every arm, pad, frame and guide joint, and confirm required torque and floor-fixing requirements with Build A Gym.

15. Test at the lowest resistance

Select the lowest stack load. Lock the seat and both arms for pec fly and test slowly through a controlled range. Repeat in the intended rear-delt setting after unloading and locking both arms. Confirm smooth movement, full stack return and no slack, rubbing or shifting adjustment pins.

Check before continuing

Both exercise modes pass the arm, adjustment, cable and stack checks.

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**

Check both arm pivots and mode locks, seat retention, pads and stack-pulley support. Test pec-fly and rear-delt settings for smooth movement and full stack return.

☐ **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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