

Strength Building Year

827

LAT MACHINE



PRODUCT ASSEMBLY
INSTRUCTIONS SHEETS

827 LAT MACHINE ASSEMBLY PARTS LIST

SORT AND COUNT ALL PARTS BEFORE BEGINNING ASSEMBLY

HARDWARE:

ITEM	NAME/DESCRIPTION	QTY
1.	3/8 IN WASHER	21
2.	1/2 IN WASHER	9
3.	3/8 IN LOCK WASHER	2
4.	1/2 IN LOCK WASHER	1
5.	3/8 IN LOCK NUT	13
6.	1/2 IN LOCK NUT	2
7.	1/2 IN LOW HT LOCK NUT	3
8.	3/8 IN LOW HT LOCK NUT	2
9.	3/8 X 2-1/4 IN BOLT	2
10.	3/8 X 3 IN BOLT	6
11.	1/2 X 3 IN BOLT	1
12.	1/2 X 3-1/4 IN BOLT	3
13.	3/8 X 2-3/4 IN BOLT	7
14.	1/2 X 3-1/2 IN BOLT	1
15.	1/2 X 2-3/4 IN BOLT	1
16.	3/8 X 3-1/4 IN BOLT	1
17.	3/8 X 1-3/4 IN BOLT	1
18.	SNAPLINK	3
19.	QUICKLINK	1
20.	3/8 IN. STEP SPACER	10
21.	SPRING PIN / T-SCREW ASSEMBLY	1
22.	1/2 IN FLANGE BEARING	4
23.	CHAIN, 21 LINK	1
24.	2-1/2 IN. OD END CAP	2
25.	4-1/2 OD X 3/8 ID PULLEY	1
26.	3-1/2 OD X 3/8 ID PULLEY	7
27.	CABLE ASSY. 110 LG	2
28.	3 X 2 IN END CAP	1
29.	2 X 1-1/2 IN END CAP	1
30.	1-1/4 IN. RUBBER BUMPER	1
31.	1 X 8 IN. GRIP	4
32.	CARRIAGE GUIDES	8
33.	1-1/2 X 3/4 IN. PARAGLIDE STRIPS (8 QTY)	1
34.	2-1/2 X 5-1/2 IN. NON SKID STRIP	2
35.	3/8 ID X 2-1/16 NYLON BUSHING	2
36.	3/8 ID X 5 IN VINYL CAP	2
37.	2 SQ END CAP	4
38.	2 SQ COVER CAP	2
39.	9/16 OD MUSHROOM CAP	2
40.	7/16 DIA PLUG CAP	2

827 LAT MACHINE ASSEMBLY INSTRUCTIONS

9. LOOSELY assemble the **BOOM** to the **REAR UPRIGHT** using one (1) 1/2 X 3 IN. BOLT, one (1) 1/2 X 2-3/4 IN. BOLT, three (3) 1/2 IN. WASHERS, one (1) 1/2 IN. LOCKWASHER and one (1) 1/2 IN. LOW HT. LOCKNUT.
10. LOOSELY assemble the **BOOM** to the **FRONT UPRIGHT** using two (2) 3/8 X 3 IN. BOLTS, four (4) 3/8 IN. WASHERS, and two (2) 3/8 IN. LOCKNUTS.
11. **AT THIS TIME, TIGHTEN ALL LOOSE FRAME CONNECTIONS MADE TO THIS POINT.**
12. LOOSELY assemble three (3) 3-1/2 O.D. X 1 IN. BUSHING PULLEYS, to the **BOOM** using three (3) 3/8 X 2-3/4 IN. BOLTS, six (6) STEP SPACERS, and three (3) 3/8 IN. LOCKNUTS.
13. LOOSELY assemble one (1) 3-1/2 O.D. X 1 IN. BUSHING PULLEY and one (1) 4-1/2 O.D. X 1 IN. BUSHING PULLEY to the **FRONT UPRIGHT** by using two (2) 3/8 X 2-3/4 IN. BOLTS, four (4) STEP SPACERS and two (2) 3/8 IN. LOCKNUTS.
14. SECURELY assemble the **SWIVEL PULLEY BRACKET** to the **FRONT UPRIGHT** by using one (1) 1/2 x 3-1/2 IN. BOLT, two (2) 1/2 IN. FLANGE BEARINGS and one (1) 1/2 IN. LOW HT. LOCKNUT.
15. LOOSELY assemble one (1) 3-1/2 O.D. X 1 IN. BUSHING PULLEY, to the **SWIVEL PULLEY BRACKET** by using one (1) 3/8 X 1-3/4 IN. BOLT and one (1) 3/8 IN. LOCKNUT. **INSERT** (1) 1-1/2 X 2 IN END CAP into the front of the **SWIVEL PULLEY BRACKET** tube.
16. SECURELY assemble the **SEAT PAD**, to the **SEAT SUPPORT**, using two (2) 3/8 X 3 IN. BOLTS, two (2) 3/8 IN. LOCK WASHERS, and two (2) 3/8 IN. WASHERS.
17. Attach the **SPRING PIN / T-SCREW ASSEMBLY** to the **KNEE HOLD DOWN** as shown in **DETAIL A**.
18. Attach the **KNEE HOLD DOWN** to the **FRONT UPRIGHT** using two (2) 3/8 X 2-3/4 IN. BOLTS, two (2) 3/8 IN. NYLON BUSHINGS, and two (2) 3/8 IN. LOW HT. LOCKNUTS.
19. Assemble two (2) 4 X 7 IN. ROLLER PADS, to the **KNEE HOLD DOWN**, using one (1) ROLLER PAD SHAFT, and two (2) 9/16 O.D. MUSHROOM CAPS.
20. Slide four (4) 1 X 8 IN. GRIPS over the ends of the **LAT BAR**, and the **LOW ROW BAR**. **(NOTE: IF A LUBRICANT IS REQUIRED, RUBBING ALCOHOL THOROUGHLY COATING THE GRIP WILL WORK THE BEST.)**
21. Assemble two (2) 3-1/2 O.D. X 1 IN. BUSHING PULLEYS to the **CONNECTOR PLATES** using two (2) 3/8 X 2-1/4 IN. BOLTS, four (4) 3/8 IN. WASHERS and two (2) 3/8 IN. LOCKNUTS.
22. Route first **CABLE** through **BOOM** and **CONNECTOR PLATES** then attach to **WEIGHT CARRIAGE**, with one (1) QUICKLINK. **(SEE CABLE ROUTING DIAGRAM)**
23. Route second **CABLE** through **SWIVEL PULLEY BRACKET**, **FRONT UPRIGHT** and **CONNECTOR PLATES**. attach end of **CABLE** to **BASE** using one (1) 3/8 X 3-1/4 IN. BOLT, three (3) 3/8 IN. WASHERS and one (1) 3/8 IN. LOCKNUT. **(SEE CABLE ROUTING DIAGRAM)**
24. **TIGHTEN ALL LOSE CONNECTIONS AT THIS TIME.**
25. Connect **LAT BAR** and **LOW ROW BAR** to end of **CABLES**, using SNAPHOOKS.

827 LAT MACHINE ASSEMBLY INSTRUCTIONS

THANK YOU

FOR PURCHASING THE 827 LAT MACHINE. PLEASE SAVE THESE ASSEMBLY INSTRUCTIONS FOR YOUR PERSONAL REFERENCE, AND ADDITIONAL SERVICE INFORMATION.

IMPORTANT

- THE 827 LAT MACHINE MUST BE ASSEMBLED ON A FLAT, LEVEL SURFACE TO ASSURE ITS PROPER FUNCTION
- IF YOU EXPERIENCE ANY PROBLEM WITH THE ASSEMBLY OF THIS PRODUCT, PLEASE CONTACT YOUR DEALER OR YOUR PARABODY CUSTOMER SERVICE REPRESENTATIVE AT: 1-800-328-9714
- TOOLS REQUIRED: RATCHET, 3/4 SOCKET or WRENCH, 9/16 SOCKET or WRENCH, ADJUSTABLE WRENCH, and RUBBER MALLET or HAMMER

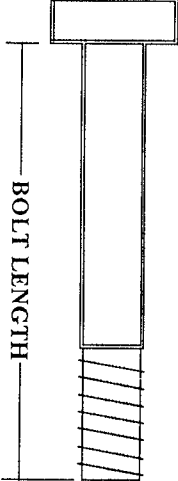
- Insert one (1) 2 IN. SQ. END CAP into the front end of the BASE, and two (2) 2-1/2 RD END CAPS into the ends of the FOOT BRACE TUBE.
- Apply two (2) 2-1/2 X 5-1/2 IN. NON SKID STRIPS to the FOOT BRACE TUBE, on the BASE, as shown on drawing.
- LOOSELY assemble the REAR UPRIGHT to the BASE, using two (2) 1/2 X 3-1/4 IN. BOLTS, four (4) 1/2 IN. WASHERS, and two (2) 1/2 IN. LOCK NUTS.
- Attach eight (8) CARRIAGE GUIDES to the WEIGHT CARRIAGE, as shown in (DETAIL B) using the following steps:
 - Thoroughly clean all inside surfaces where the CARRIAGE GUIDES are to be attached.
 - Remove the paper backing from the CARRIAGE GUIDES, and firmly apply them to all of the shown surfaces (8 places)
- Attach one (1) 1-1/4 IN. SQ. RUBBER BUMPER to the CARRIAGE STOP, on the WEIGHT CARRIAGE.
- Slide the WEIGHT CARRIAGE down over the REAR UPRIGHT.
- LOOSELY assemble the FRONT UPRIGHT, to the BASE, using two (2) 3/8 X 3 IN. BOLTS, four (4) 3/8 IN. WASHERS, and two (2) 3/8 IN. LOCKNUTS.
- Insert one (1) 2 IN. SQ. END CAP into the end of the SEAT SUPPORT, assemble to FRONT UPRIGHT using one (1) 1/2 X 3-1/4 IN. BOLT, two (2) 1/2 IN. FLANGE BEARINGS, and one (1) 1/2 IN. LOW HT. LOCKNUT.

827 LAT MACHINE ASSEMBLY PARTS LIST

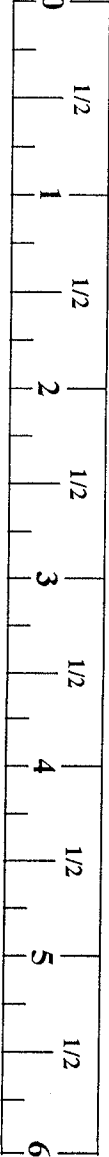
SORT AND COUNT ALL PARTS BEFORE BEGINNING ASSEMBLY WELDMENTS/PARTS:

ITEM	NAME/DESCRIPTION	QTY
1.	BASE	(6511201) 1
2.	REAR UPRIGHT	(6512001) 1
3.	SWIVEL PULLEY BRACKET	(6501301) 1
4.	WEIGHT CARRIAGE	(6511001) 1
5.	FRONT UPRIGHT	(6511601) 1
6.	SEAT SUPPORT	(6489201) 1
7.	KNEE HOLD DOWN	(6489101) 1
8.	SEAT PAD	(6456901) 1
9.	LAT BAR	(6275301) 1
10.	LOW ROW BAR	(6274401) 1
11.	4 X 7 IN. ROLLER PAD	(6194601) 2
12.	BOOM	(6511301) 1
13.	PAINTED CONNECTOR	(6013701) 2
14.	ROLLER PAD SHAFT	(6485301) 1

NOTE: BOLT LENGTH IS MEASURED FROM THE UNDERSIDE OF THE HEAD OF THE BOLT.



BOLT LENGTH RULER:



☐ Do not mark this box!



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827101 LAT MACHINE ASSEMBLY INSTRUCTIONS

02/21/9523. Route first **CABLE** through **BOOM** and **CONNECTOR PLATES** then attach to **WEIGHT CARRIAGE**, with one (1) **QUICKLINK**. (SEE **CABLE ROUTING DIAGRAM**)

24. LOOSELY assemble three (3) 3-1/2 O.D. X IN. BUSHING PULLEYS, to the **BOOM** using three (3) 3/8 X 2-3/4 IN. BOLTS, six (6) STEP SPACERS, and three (3) 3/8 IN. LOCKNUTS.(SEE **CABLE ROUTING DIAGRAM**).

25. Route second **CABLE** through **SWIVEL PULLEY BRACKET**, **FRONT UPRIGHT** and **CONNECTOR PLATES**, attach end of **CABLE** to **BASE** using one (1) 3/8 X 3-1/4 IN. BOLT, three (3) 3/8 IN. WASHERS and one (1) 3/8 IN. LOCKNUT. (SEE **CABLE ROUTING DIAGRAM**)

26. LOOSELY assemble the **BOOM** to the **FRONT UPRIGHT** using two (2) 3/8 X 3 IN. BOLTS, four (4) 3/8 IN. WASHERS, and two (2) 3/8 IN. LOCKNUTS.

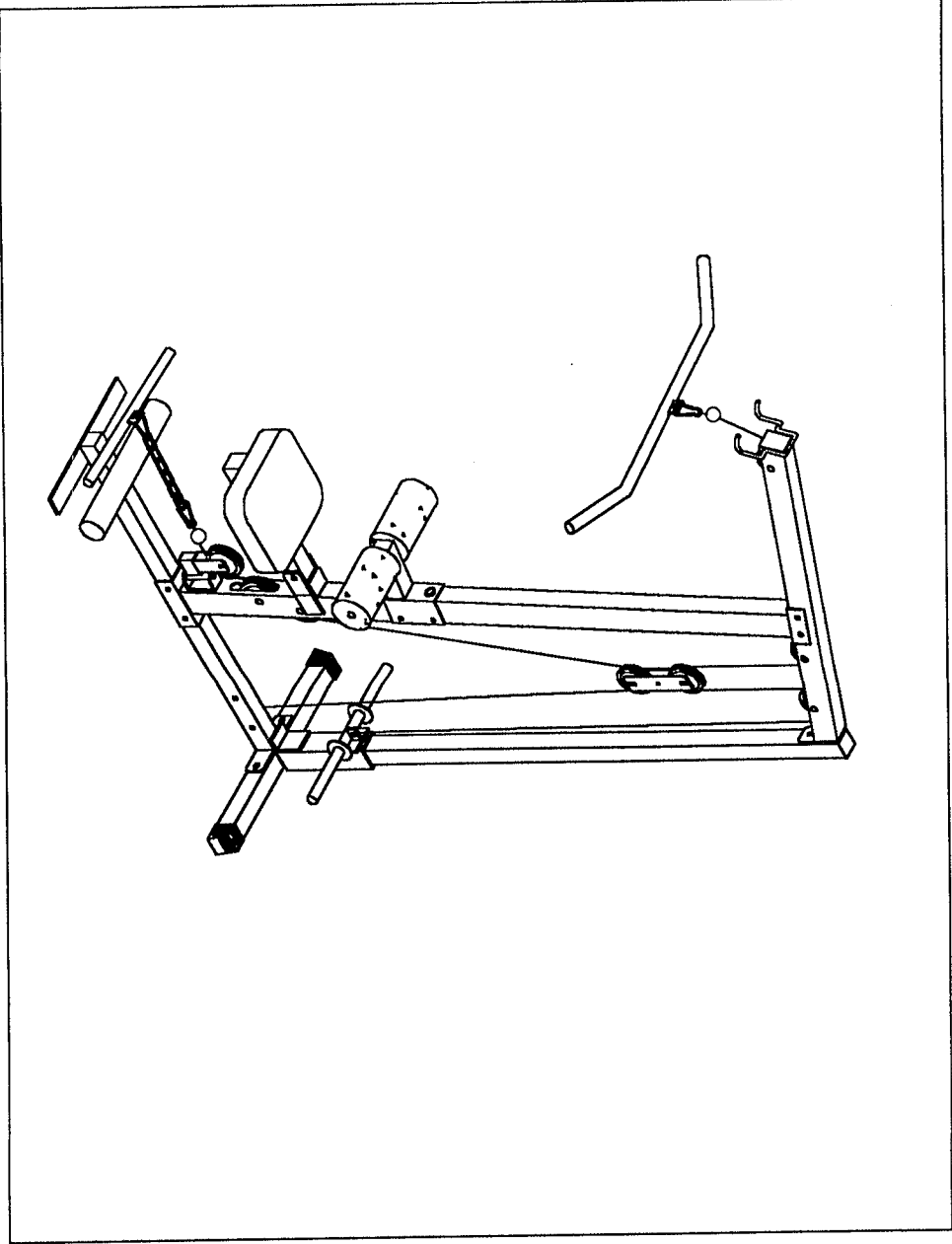
27. **TIGHTEN ALL LOSE CONNECTIONS AT THIS TIME.**

28. Connect **LAT BAR** to **CABLE** using one (1) **SNAPHOOK** , and connect **LOW ROW BAR** to **CABLE** using two (2) **SNAPHOOKS** , and one (1) **CHAIN**.



827101

LAT MACHINE



PRODUCT ASSEMBLY
INSTRUCTIONS SHEETS

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SORT AND COUNT ALL PARTS BEFORE BEGINNING ASSEMBLY

HARDWARE:

ITEM	NAME/DESCRIPTION	QTY
1.	3/8 IN WASHER	21
2.	1/2 IN WASHER	9
3.	3/8 IN LOCK WASHER	2
4.	1/2 IN LOCK WASHER	1
5.	3/8 IN LOCK NUT	13
6.	1/2 IN LOCK NUT	2
7.	1/2 IN LOW HT LOCK NUT	3
8.	3/8 IN LOW HT LOCK NUT	2
9.	3/8 X 2-1/4 IN BOLT	2
10.	3/8 X 3 IN BOLT	6
11.	1/2 X 3 IN BOLT	1
12.	1/2 X 3-1/4 IN BOLT	3
13.	3/8 X 2-3/4 IN BOLT	7
14.	1/2 X 3-1/2 IN BOLT	1
15.	1/2 X 2-3/4 IN BOLT	1
16.	3/8 X 3-1/4 IN BOLT	1
17.	3/8 X 1-3/4 IN BOLT	1
18.	SNAPHOOK	3
19.	QUICKLINK	1
20.	3/8 IN. STEP SPACER	10
21.	SPRING PIN / T-SCREW ASSEMBLY	1
22.	1/2 IN FLANGE BEARING	4
23.	CHAIN	1
24.	2-1/2 IN. OD END CAP	2
25.	4-1/2 OD X 3/8 ID PULLEY	1
26.	3-1/2 OD X 3/8 ID PULLEY	7
27.	CABLE ASSY, 110 LG	2
28.	3 X 2 IN END CAP	1
29.	2 X 1-1/2 IN END CAP	1
30.	1-1/4 IN. RUBBER BUMPER	1
31.	1 X 8 IN. GRIP	4
32.	CARRIAGE GUIDES	8
33.	1-1/2 X 3/4 IN. PARAGLIDE STRIPS (8 QTY)	1
34.	2-1/2 X 5-1/2 IN. NON SKID STRIP	2
35.	3/8 ID X 2-1/16 NYLON BUSHING	2
36.	3/8 ID X 5 IN VINYL CAP	2
37.	2 SQ END CAP	4
38.	2 SQ COVER CAP	2
39.	9/16 OD MUSHROOM CAP	2
40.	7/16 DIA PLUG CAP	2

827101 LAT MACHINE ASSEMBLY INSTRUCTIONS

9. LOOSELY assemble the **BOOM** to the **REAR UPRIGHT** using one (1) 1/2 X 3 IN. BOLT, one (1) 1/2 X 2-3/4 IN. BOLT, three (3) 1/2 IN. WASHERS, one (1) 1/2 IN. LOCKWASHER and one (1) 1/2 IN. LOW HT. LOCKNUT.
10. **AT THIS TIME, TIGHTEN ALL LOOSE FRAME CONNECTIONS MADE TO THIS POINT.**
11. Insert one (1) 3 x 2 IN. END CAP into front end of the **BOOM**, and SLIDE two (2) 3/8 ID X 5 IN. VINYL CAPS over lat bar hooks.
12. LOOSELY assemble one (1) 3-1/2 O.D. X 1 IN. BUSHING PULLEY and one (1) 4-1/2 O.D. X 1 IN. BUSHING PULLEY to the **FRONT UPRIGHT** by using two (2) 3/8 X 2-3/4 IN. BOLTS, four (4) STEP SPACERS and two (2) 3/8 IN. LOCKNUTS.
13. SECURELY assemble the **SWIVEL PULLEY BRACKET** to the **FRONT UPRIGHT** by using one (1) 1/2 x 3-1/2 IN. BOLT, two (2) 1/2 IN. FLANGE BEARINGS and one (1) 1/2 IN. LOW HT. LOCKNUT. Before step 14, begins, CABLE must be placed under 3-1/2 O.D. X 1 IN. BUSHING PULLEY as shown in the (**CABLE ROUTING DIAGRAM**).
14. LOOSELY assemble one (1) 3-1/2 O.D. X 1 IN. BUSHING PULLEY, to the **SWIVEL PULLEY BRACKET** by using one (1) 3/8 X 1-3/4 IN. BOLT and one (1) 3/8 IN. LOCKNUT. **INSERT** (1) 1-1/2 X 2 IN END CAP into the front of the **SWIVEL PULLEY BRACKET** tube.
15. SECURELY assemble the **SEAT PAD**, to the **SEAT SUPPORT**, using two (2) 3/8 X 3 IN. BOLTS, two (2) 3/8 IN. LOCK WASHERS, and two (2) 3/8 IN. WASHERS.
16. Attach the **SPRING PIN / T-SCREW ASSEMBLY** to the **KNEE HOLD DOWN** as shown in (**DETAIL A**).
17. Insert one (1) 2 IN. SQ END CAP into the front of the **KNEE HOLD DOWN**, and one (1) 2 IN. SQ END CAP into the top of the **REAR UPRIGHT**.
18. Attach eight (8) 1-1/2 X 3/4 IN. PARAGLIDE STRIPS to the **KNEE HOLD DOWN**, as shown in (**DETAIL A**).
- A. Thoroughly clean all inside surfaces where the PARAGLIDES are to be attached.
- B. Remove individual PARAGLIDES from the paper backing, and firmly apply them to all of the shown surfaces (8 places)
19. Attach the **KNEE HOLD DOWN** to the **FRONT UPRIGHT** using two (2) 3/8 X 2-3/4 IN. BOLTS, four (4) 3/8 IN. WASHERS, two (2) 3/8 IN. NYLON BUSHINGS, and two (2) 3/8 IN. LOW HT. LOCKNUTS.
20. Assemble two (2) 4 X 7 IN. ROLLER PADS, to the **KNEE HOLD DOWN**, using one (1) ROLLER PAD SHAFT, and two (2) 9/16 O.D. MUSHROOM CAPS.
21. Slide four (4) 1 X 8 IN. GRIPS over the ends of the **LAT BAR**, and the **LOW ROW BAR**. (**NOTE: IF A LUBRICANT IS REQUIRED, RUBBING ALCOHOL THOROUGHLY COATING THE GRIP WILL WORK THE BEST.**)
22. Assemble two (2) 3-1/2 O.D. X 1 IN. BUSHING PULLEYS to the **CONNECTOR PLATES** using two (2) 3/8 X 2-1/4 IN. BOLTS, four (4) 3/8 IN. WASHERS and two (2) 3/8 IN. LOCKNUTS.

827101 LAT MACHINE ASSEMBLY INSTRUCTIONS

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IMPORTANT

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- TOOLS REQUIRED: RATCHET, 3/4 SOCKET or WRENCH, 9/16 SOCKET or WRENCH, ADJUSTABLE WRENCH, and RUBBER Mallet or HAMMER.

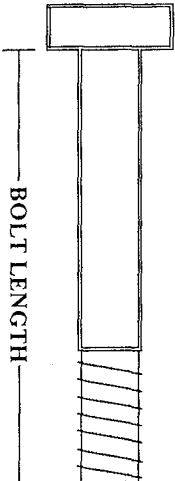
- Insert one (1) 2 IN. SQ. END CAP into the front end of the **BASE**, two (2) 7/16 DIA. PLUG CAPS into each side of the **BASE**, and two(2) 2-1/2 IN. OD END CAPS into the ends of the **FOOT BRACE TUBE**.
- Apply two (2) 2-1/2 X 5-1/2 IN. NON SKID STRIPS to the **FOOT BRACE TUBE**, on the **BASE**, as shown on drawing.
- LOOSELY** assemble the **REAR UPRIGHT** to the **BASE**, using two (2) 1/2 X 3-1/4 IN. BOLTS, four (4) 1/2 IN. WASHERS, and two (2) 1/2 IN. LOCK NUTS.
- Attach eight (8) **CARRIAGE GUIDES** to the **WEIGHT CARRIAGE**, as shown in (**DETAIL B**) using the following steps:
 - Thoroughly clean all inside surfaces where the **CARRIAGE GUIDES** are to be attached.
 - Remove the paper backing from the **CARRIAGE GUIDES**, and firmly apply them to all of the shown surfaces (8 places)
- Attach one (1) 1-1/4 IN. SQ. RUBBER BUMPER to the **CARRIAGE STOP**, on the **WEIGHT CARRIAGE**.
- Slide the **WEIGHT CARRIAGE** down over the **REAR UPRIGHT**.
- LOOSELY** assemble the **FRONT UPRIGHT**, to the **BASE**, using two (2) 3/8 X 3 IN. BOLTS, four (4) 3/8 IN. WASHERS, and two (2) 3/8 IN. LOCKNUTS.
- Insert one (1) 2 IN. SQ. END CAP into the end of the **SEAT SUPPORT**, assemble to **FRONT UPRIGHT** using one (1) 1/2 X 3-1/4 IN. BOLT, two (2) 1/2 IN. WASHERS, two (2) 1/2 IN. FLANGE BEARINGS, and one (1) 1/2 IN. LOW HT. LOCKNUT.

827101 LAT MACHINE ASSEMBLY PARTS LIST

SORT AND COUNT ALL PARTS BEFORE BEGINNING ASSEMBLY
WELDMENTS/PARTS:

ITEM	NAME/DESCRIPTION	QTY
1.	BASE	(6511201) 1
2.	REAR UPRIGHT	(6512001) 1
3.	SWIVEL PULLEY BRACKET	(6501301) 1
4.	WEIGHT CARRIAGE	(6511001) 1
5.	FRONT UPRIGHT	(6511601) 1
6.	SEAT SUPPORT	(6489201) 1
7.	KNEE HOLD DOWN	(6489101) 1
8.	SEAT PAD	(6456901) 1
9.	LAT BAR	(6275301) 1
10.	LOW ROW BAR	(6389701) 1
11.	4 X 7 IN. ROLLER PAD	(6194601) 2
12.	BOOM	(6511301) 1
13.	PAINTED CONNECTOR	(6013701) 2
14.	ROLLER PAD SHAFT	(6485301) 1

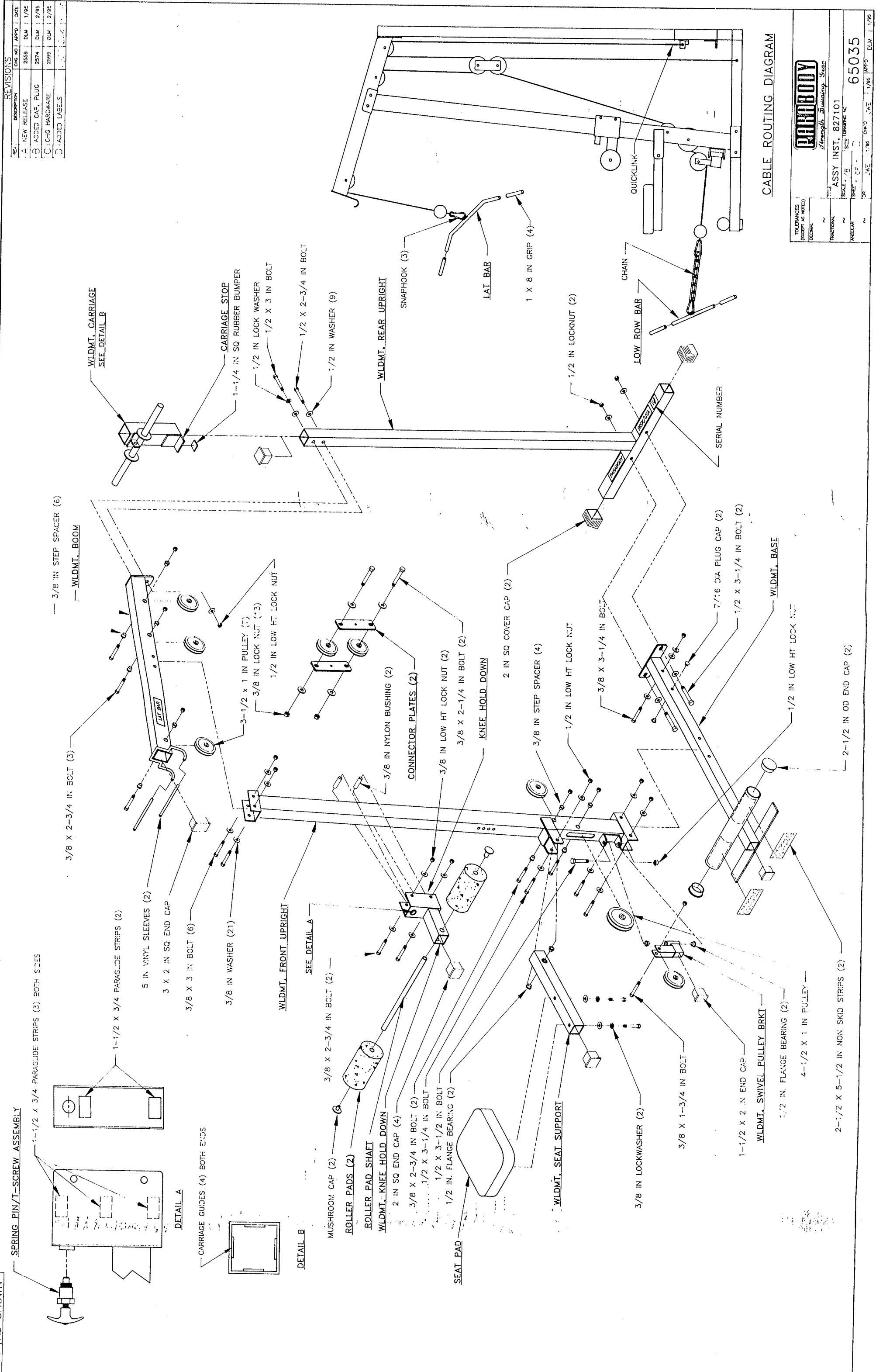
NOTE: BOLT LENGTH IS MEASURED FROM THE UNDERSIDE OF THE HEAD OF THE BOLT.



BOLT LENGTH RULER:



REVISIONS			
REV.	DESCRIPTION	CHK. NO.	DATE
A	NEW RELEASE	2559	1/85
B	ADDED CAP, PLUG	2574	2/85
C	CHG HARDWARE	2589	2/85
D	ADDED LASELS		



CABLE ROUTING DIAGRAM

TOLERANCES (EXCEPT AS NOTED)	
EXTERNAL	~
INTERNAL	~
FRACTIONAL	
SCALE: 1/8"	SEE DRAWING 12
ANGULAR	
1/8"	1/4"
1/4"	1/2"
1/2"	1/4"
1/4"	1/8"
1/8"	1/16"
1/16"	1/32"
1/32"	1/64"
1/64"	1/128"
1/128"	1/256"
1/256"	1/512"
1/512"	1/1024"
1/1024"	1/2048"
1/2048"	1/4096"
1/4096"	1/8192"
1/8192"	1/16384"
1/16384"	1/32768"
1/32768"	1/65536"
1/65536"	1/131072"
1/131072"	1/262144"
1/262144"	1/524288"
1/524288"	1/1048576"
1/1048576"	1/2097152"
1/2097152"	1/4194304"
1/4194304"	1/8388608"
1/8388608"	1/16777216"
1/16777216"	1/33554432"
1/33554432"	1/67108864"
1/67108864"	1/134217728"
1/134217728"	1/268435456"
1/268435456"	1/536870912"
1/536870912"	1/1073741824"
1/1073741824"	1/2147483648"
1/2147483648"	1/4294967296"
1/4294967296"	1/8589934592"
1/8589934592"	1/17179869184"
1/17179869184"	1/34359738368"
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