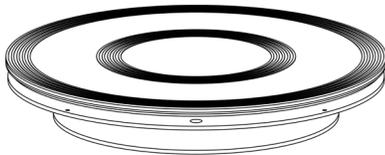


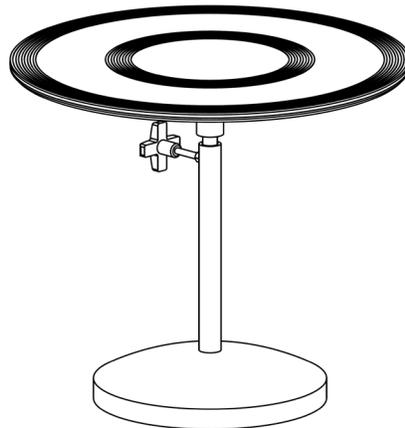


Vestil Manufacturing Corp.
 2999 North Wayne Street, P.O. Box 507, Angola, IN 46703
 Telephone: (260) 665-7586 -or- Toll Free (800) 348-0868
 Fax: (260) 665-1339
 Web: www.vestilmfg.com Email: info@vestil.com

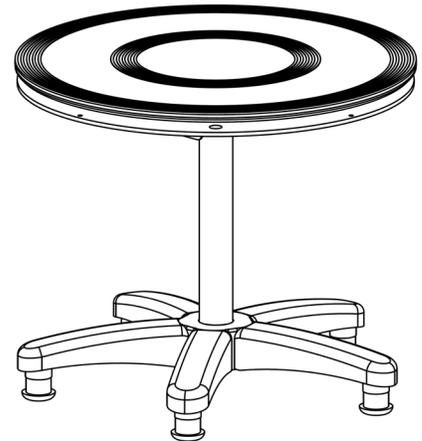
TT Series Benchtop Turntables Instruction Manual



Manual turntables



Manual turntable on manually adjusted pedestal



Manual turntable on gas cylinder adjusted pedestal

Receiving instructions:

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE:

The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Replacement Parts and Technical Assistance:

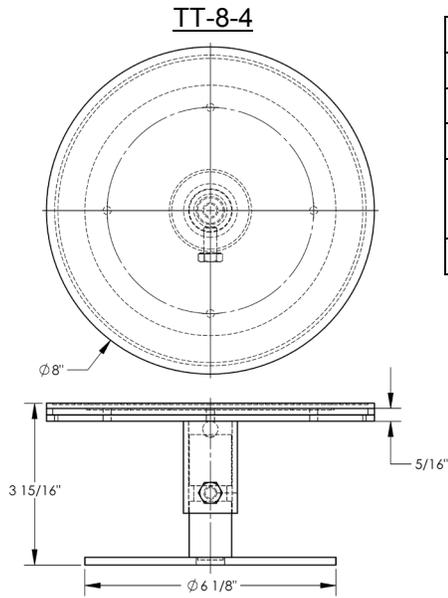
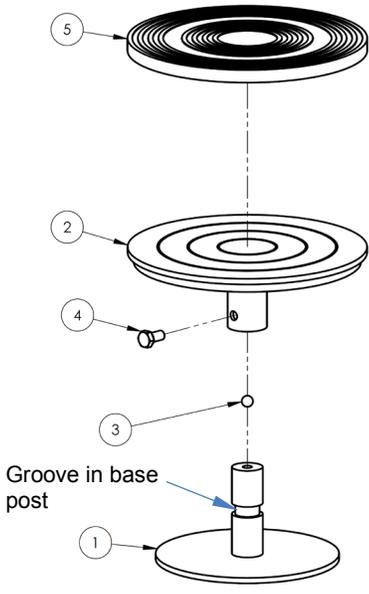
For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at http://www.vestilmfg.com/parts_info.htm.

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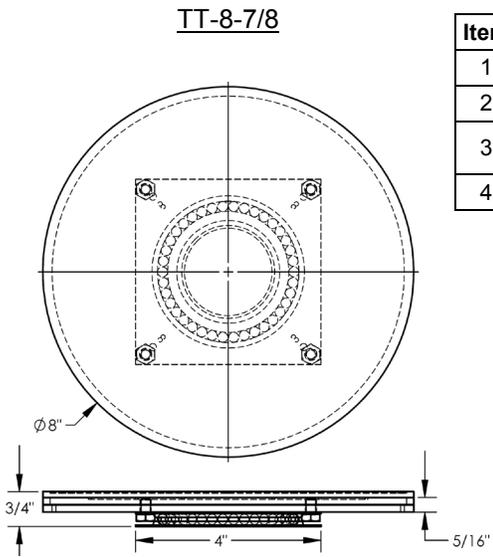
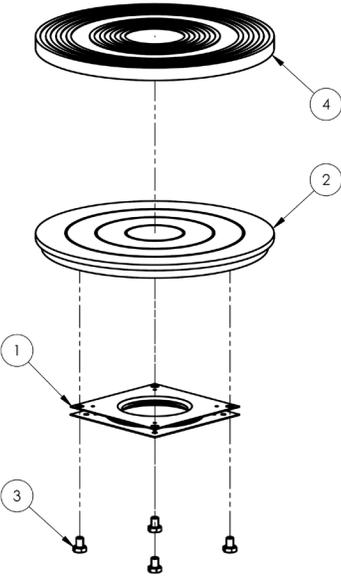
Parts and Specifications:

Dimensions and other specifications for each TT-series turntable appear in the diagrams and tables on pages 2-6.



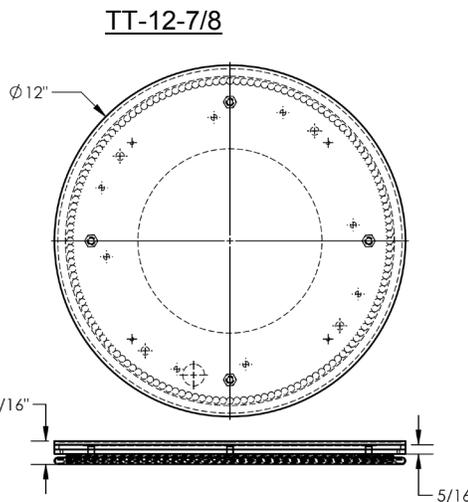
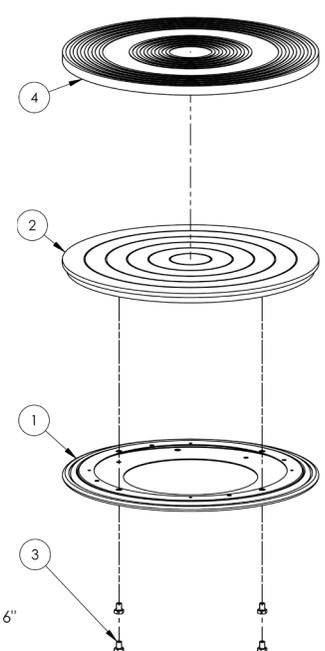
Item	Part no.	Description	Qty.
1	20-514-113	Weldment, frame, base	1
2	20-513-104	Weldment, top plate	1
3	99-110-006	Bearing ball, 3/8"	1
4	38614	Metric hex bolt, class 8.8, z-finish, M8-1.25x16mm	1
5	20-024-010	Guard, cover, mat	1

Uniform capacity = 500 lb.
 Turntable diameter = 8"
 Base diameter = 6 1/8"
 Overall height = 3 15/16"
 Top plate thickness = 5/16"
 Net weight = 7.1 lb.
 Rubber cover on top plate.
 Bolt (4) must seat into groove on base post.



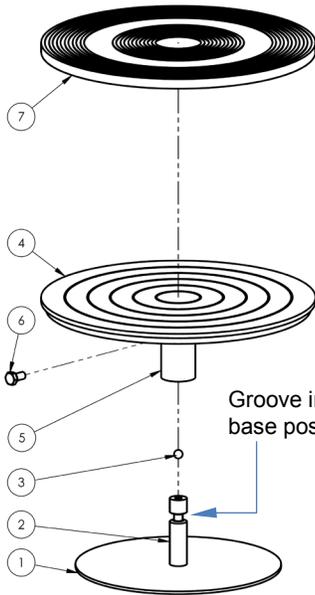
Item	Part no.	Description	Qty.
1	20-110-011	Bearing ball carousel	1
2	20-013-018	Turntable platform plate	1
3	38561	Bolt, HHCS, class 8.8, z-finish, M6-1.0x8mm	4
4	20-024-010	Guard, cover, mat	1

Uniform capacity = 500 lb.
 Turntable diameter = 8"
 Overall height = 3/4"
 Top plate thickness = 5/16"
 Net weight = 4.9 lb.
 Rubber cover on top plate.

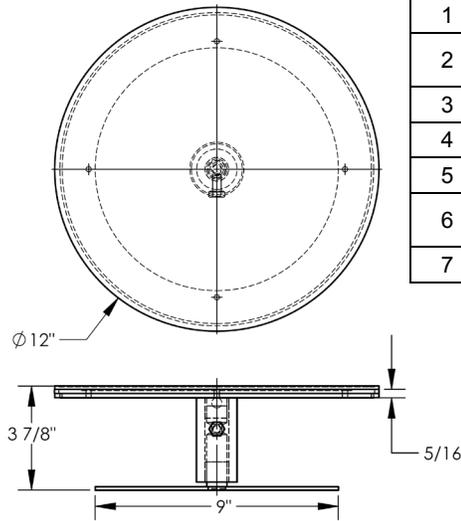


Item	Part no.	Description	Qty.
1	20-110-007	Bearing ball carousel	1
2	20-013-017	Turntable platform plate	1
3	38561	Bolt, HHCS, class 8.8, z-finish, M6-1.0x8mm	4
4	20-024-011	Guard, cover, mat	1

Uniform capacity = 500 lb.
 Turntable diameter = 12"
 Overall height = 13/16"
 Top plate thickness = 5/16"
 Net weight = 12.3 lb.
 Rubber cover on top plate.

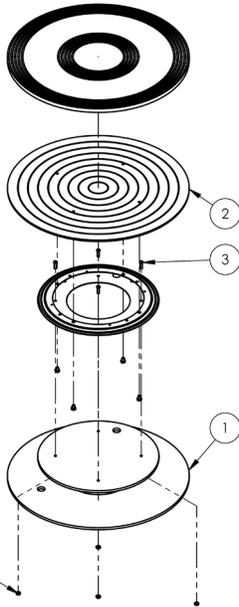


TT-12-4

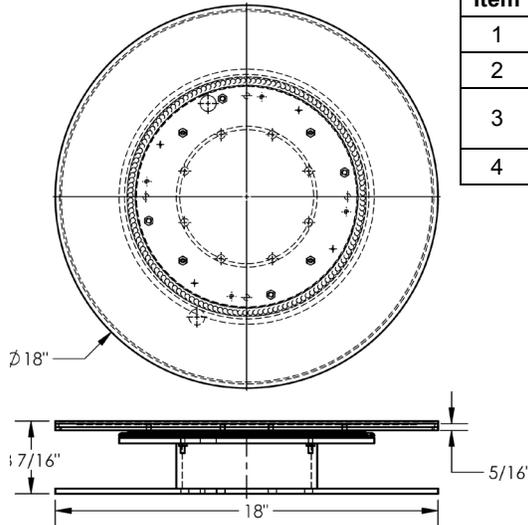


Item	Part no.	Description	Qty.
1	20-014-061	Plate, base, TT-12-PED	1
2	20-112-007	Pin, base swivel, TT-12-PED	1
3	99-110-006	Bearing ball, 3/8"	1
4	20-013-017	Deck, turntable plate	1
5	20-514-053	Assembly, frame bearing	1
6	38614	Metric hex bolt, class 8.8, z-finish, M8-1.25x16mm	1
7	20-024-011	Guard, cover, mat	1

Uniform capacity = 500 lb.
 Turntable diameter = 12"
 Overall height = 3 7/8"
 Top plate thickness = 5/16"
 Net weight = 14.0 lb.
 Rubber cover on top plate.
 Bolt (6) must seat into groove on base post.

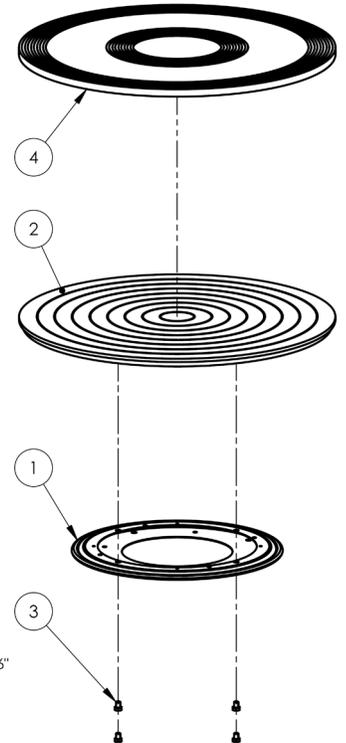


TT-18-4

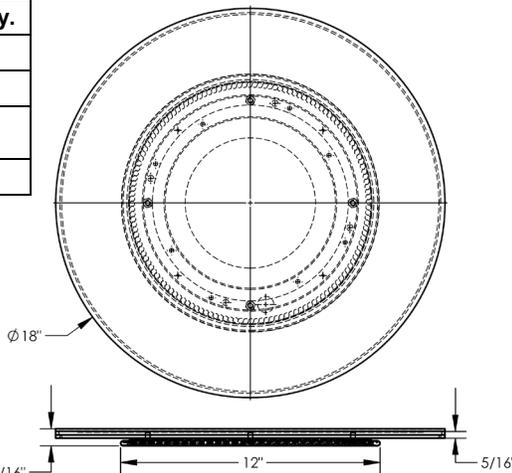


Item	Part no.	Description	Qty.
1	20-514-060	Bearing ball carousel	1
2	20-001-025	Turntable platform plate	1
3	27560	#10-32x3/4" slotted machine screw	4
4	37015	10-32 lock nut, z-plated	4

Uniform capacity = 500 lb.
 Turntable diameter = 18"
 Overall height = 3 7/16"
 Top plate thickness = 5/16"
 Net weight = 54.6 lb.
 Rubber cover on top plate.



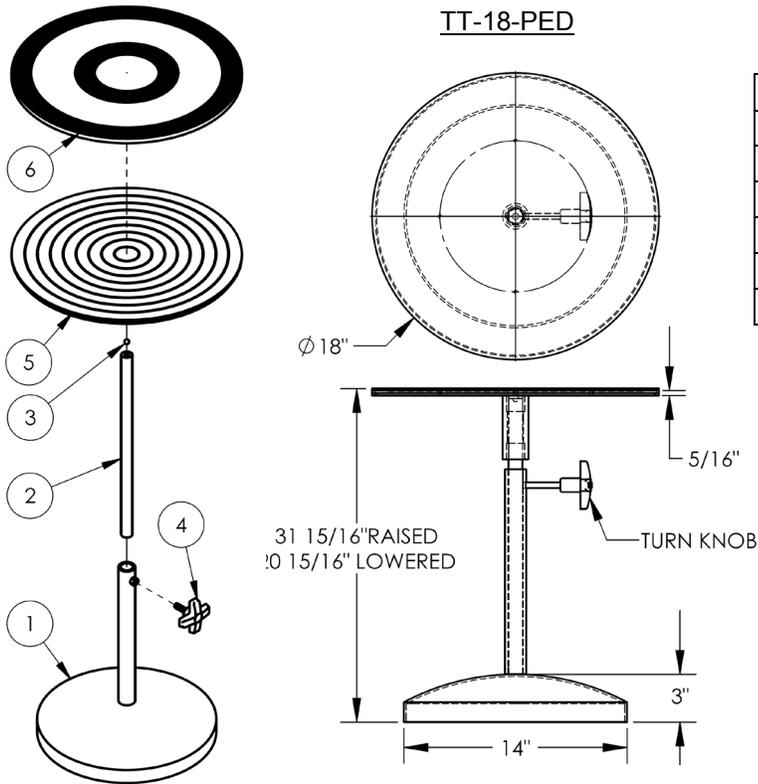
TT-18-7/8



Item	Part no.	Description	Qty.
1	20-110-007	Bearing ball carousel	1
2	20-013-016	Deck, turntable plate	1
3	38561	Bolt, HHCS, class 8.8, z-finish, M6-1.0x8mm	4
4	20-024-008	Guard, cover, mat	1

Uniform capacity = 1,000 lb.
 Turntable diameter = 18"
 Overall height = 13/16"
 Top plate thickness = 5/16"
 Net weight = 25.3 lb.
 Rubber cover on top plate.

TT-18-PED

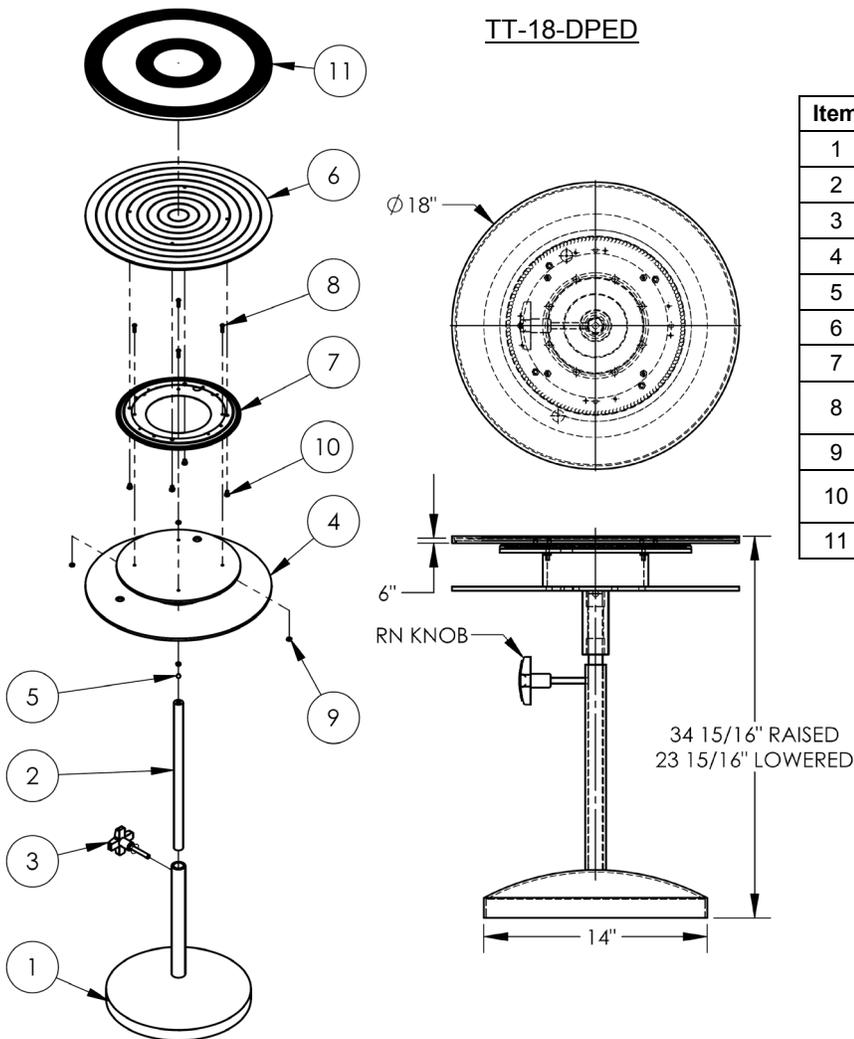


Item	Part no.	Description	Qty.
1	20-514-010	Weldment, frame, base	1
2	20-014-028	Frame, inner shaft	1
3	99-110-006	Bearing ball, $\frac{3}{8}$ "	1
4	99-025-002	Knob, $\frac{3}{8}$ " - 16UNC x $2\frac{3}{8}$ "	1
5	20-514-011	Weldment, deck	1
6	20-024-008	Guard, cover, mat	1

Uniform capacity = 300 lb.
 Turntable diameter = 18"
 Raised height = $31\frac{15}{16}$ "
 Lowered height = $20\frac{15}{16}$ "
 Top plate thickness = $\frac{5}{16}$ "
 Net weight = 39.3 lb.
 Rubber cover on top plate.
 Manual height adjustment with knob tensioner.

To adjust tabletop height, loosen knob, position tabletop at desired level; then retighten knob.

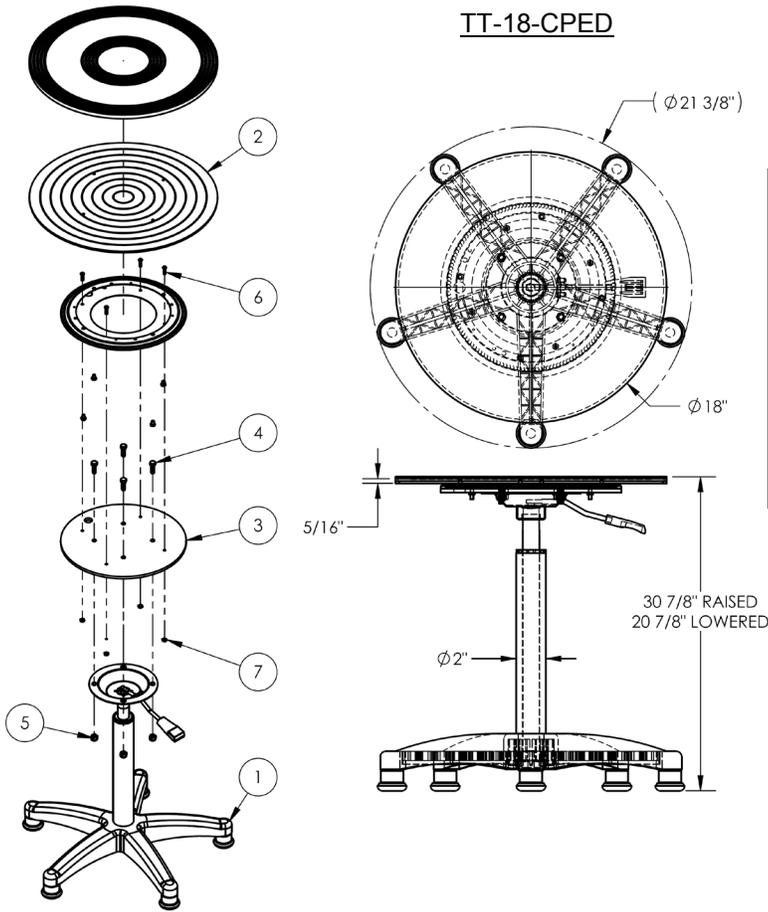
TT-18-DPED



Item	Part no.	Description	Qty.
1	20-514-010	Weldment, frame, base	1
2	20-014-028	Frame, inner shaft	1
3	99-025-002	Knob, $\frac{3}{8}$ "-16UNCx $2\frac{3}{8}$ "	1
4	20-514-097	Weldment, frame, top	1
5	99-110-006	Bearing, ball, $\frac{3}{8}$ "	1
6	20-013-016	Deck, turntable plate	1
7	20-110-007	Bearing ball carousel	1
8	27560	#10-32x $\frac{3}{4}$ " slotted machine screw	4
9	37015	10-32 lock nut, z-plated	4
10	38561	Bolt, hex head, HHCS, M6-1.0x8mm	4
11	20-024-008	Guard, cover, mat	1

Uniform capacity = 300 lb.
 Turntable diameter = 18"
 Lowered height = $23\frac{15}{16}$ "
 Raised height = $34\frac{15}{16}$ "
 Top plate thickness = $\frac{5}{16}$ "
 Net weight = 70.6 lb.
 Rubber cover on top plate.
 Manual height adjustment with knob tensioner. To adjust tabletop height, loosen knob, position tabletop at desired level; then retighten knob.

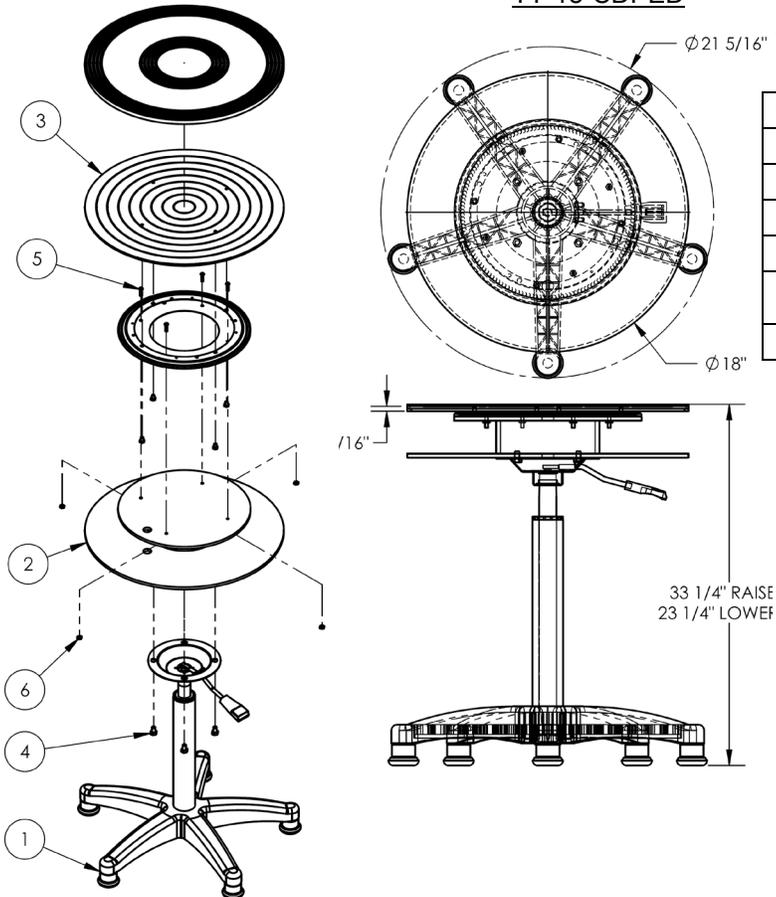
TT-18-CPED



Item	Part no.	Description	Qty.
1	30-514-041	Subassembly, frame	1
2	20-001-025	Carousel assembly	1
3	20-013-042	Deck, top base plate	1
4	11055	Hex bolt, gr. A, zinc plated, 5/16"-18x1"	4
5	37021	Nylon insert lock nut, gr. 2, zinc finish, 5/16"-18	4
6	27560	#10-32x3/4" slotted machine screw	4
7	37015	10-32 lock nut z-plated	4

Uniform capacity = 300 lb.
 Turntable diameter = 18"
 Raised height = 30 7/8"
 Lowered height = 20 7/8"
 Top plate thickness = 5/16"
 Net weight = 46.1 lb.
 Rubber cover on top plate.
 Gas cylinder for height adjustment. To raise cylinder, press cylinder lever up. Release lever when tabletop achieves desired height. To lower tabletop, press lever up and apply weight to tabletop.

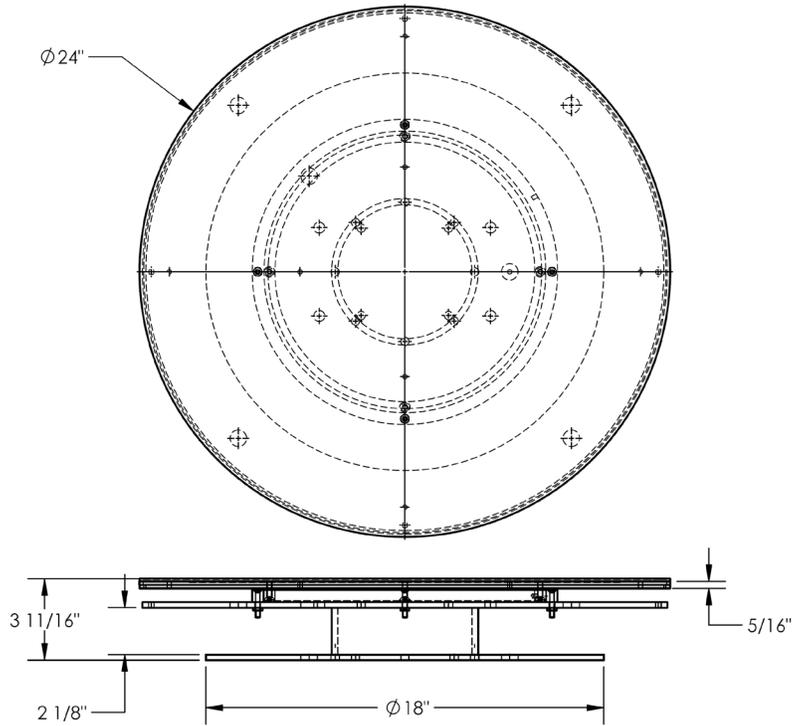
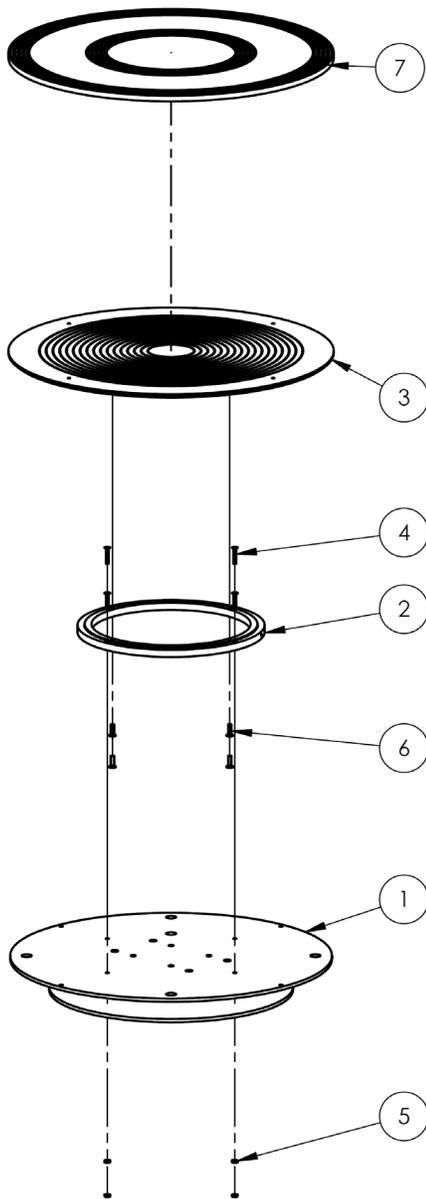
TT-18-CDPED



Item	Part no.	Description	Qty.
1	30-514-041	Subassembly, frame	1
2	20-513-029	Weldment, deck	1
3	20-001-025	Carousel assembly	1
4	11051	5/16"-18UNCx1/2" bolt	4
5	27560	#10-32 x 3/4" slotted machine screw	4
6	37015	10-32 lock nut z-plated	4

Uniform capacity = 300 lb.
 Turntable diameter = 18"
 Lowered height = 23 1/4"
 Raised height = 33 1/4"
 Top plate thickness = 5/16"
 Net weight = 67.4 lb.
 Rubber cover on top plate.
 Gas cylinder for height adjustment. To raise cylinder, press cylinder lever up. Release lever when tabletop achieves desired height. To lower tabletop, press lever up and apply weight to tabletop.

TT-N-24-4

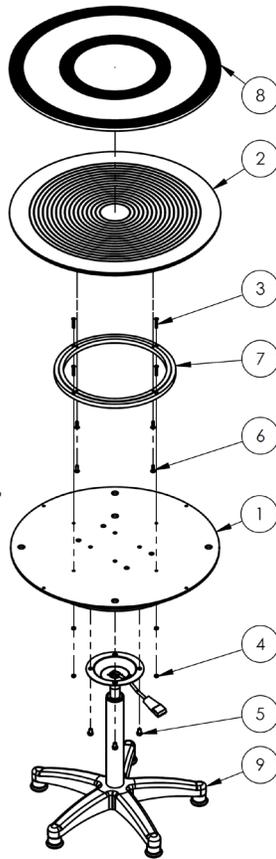
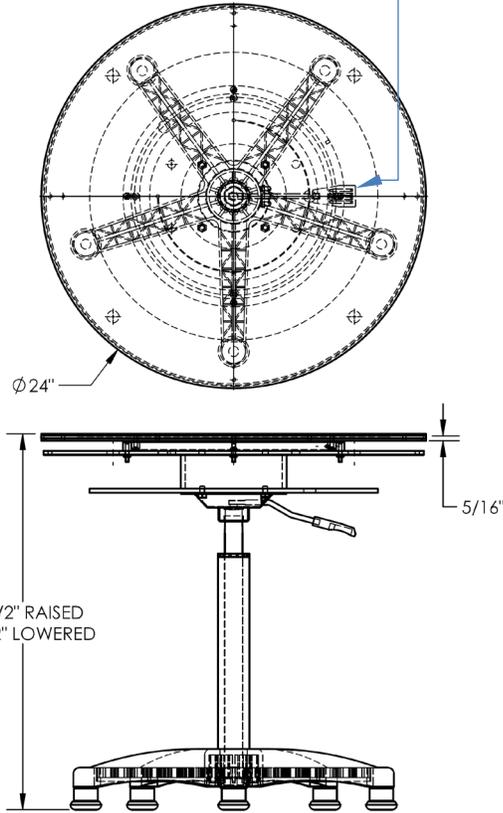


Uniform capacity = 500 lb.
 Turntable diameter = 24"
 Overall height = 3¹¹/₁₆"
 Top plate thickness = ⁵/₁₆"
 Net weight = 100.3 lb.
 Rubber cover on top plate.

Item	Part no.	Description	Qty.
1	20-514-094	Weldment, frame, base	1
2	20-001-135	13.78" carousel assembly	1
3	20-013-031	Weldment, top plate	1
4	24214	Flat head socket cap screw, #10-32 x 1 ¹ / ₄ "	4
5	37015	10-32 Nylock nut, zinc-plated	4
6	39956	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
7	20-024-012	Guard, cover, mat	1

Cylinder lever

TT-N-24-CDPED

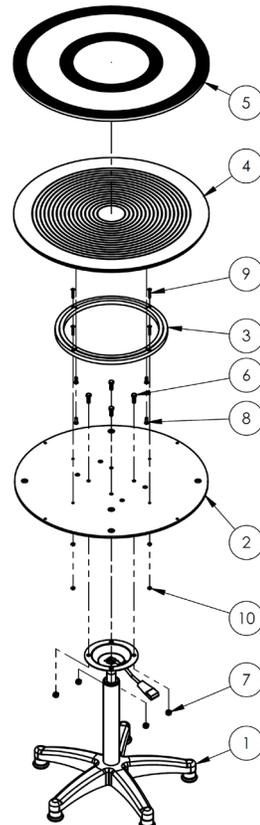
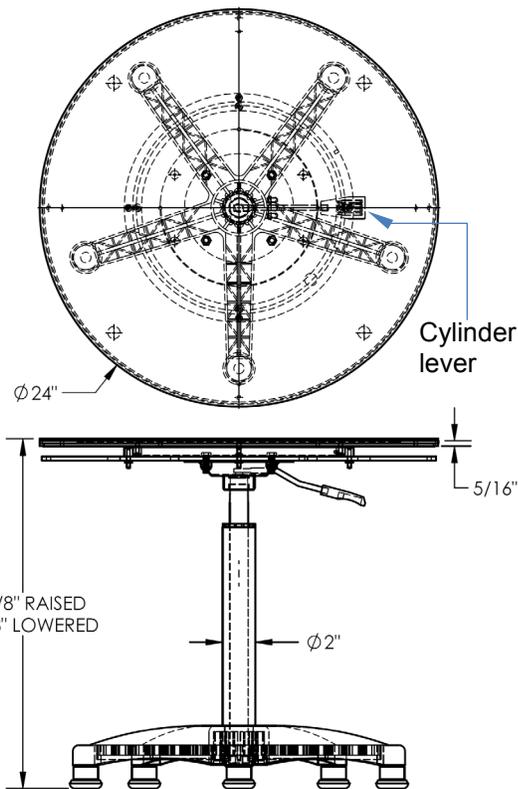


Uniform capacity = 300 lb.
 Turntable diameter = 24"
 Lowered height = 23 1/2"
 Raised height = 33 1/2"
 Top plate thickness = 5/16"
 Net weight = 113.1 lb.
 Rubber cover on top plate.

Gas cylinder for height adjustment.
 To raise cylinder, press cylinder lever up. Release lever when tabletop achieves desired height. To lower tabletop, press lever up and apply weight to tabletop.

Item	Part no.	Description	Qty.
1	20-513-059	Weldment, deck	1
2	20-013-031	Turntable platform plate, TT-24	1
3	24214	Flat head socket cap screw #10-32x1 1/4"	4
4	37015	10-32 lock nut, zinc plated	4
5	11051	5/16"-18UNCx1 1/2"	4
6	39956	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
7	20-001-135	13.78" carousel assembly	1
8	20-024-012	Guard, cover, mat	1
9	30-514-041	Subassembly, frame	1

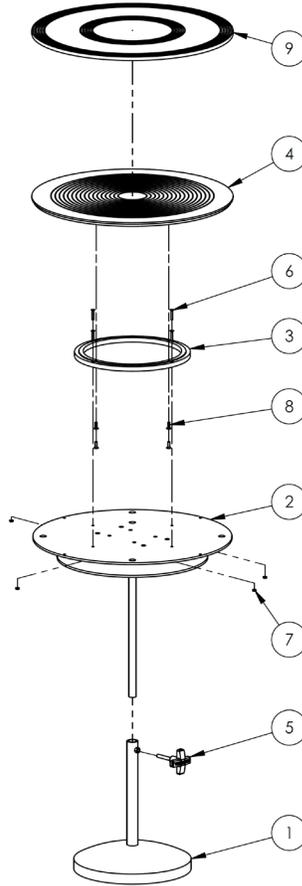
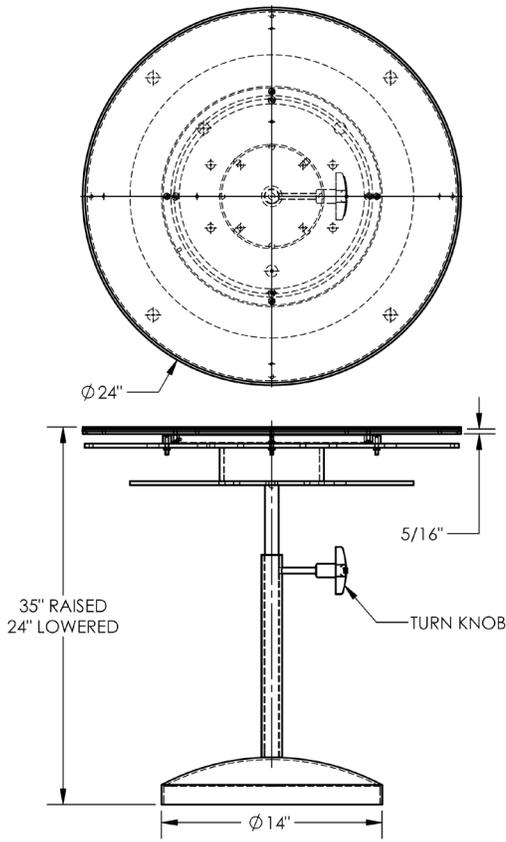
TT-N-24-CPED



Item	Part no.	Description	Qty.
1	30-514-041	Subassembly, frame	1
2	20-013-114	Deck, plate	1
3	20-001-135	Carousel assembly	1
4	20-013-031	Deck, plate	1
5	20-024-012	Guard, cover, mat	1
6	11055	Hex bolt, grade A, zinc plated, 5/16"-18x1"	4
7	37021	Lock nut, grade 2, zinc finish, 5/16"-18	4
8	39956	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
9	24214	Flat head socket cap screw #10-32x1 1/4"	4
10	37015	10-32 lock nut, zinc plated	4

Uniform capacity = 300 lb.
 Turntable diameter = 24"
 Lowered height = 21 1/8"
 Raised height = 31 1/8"
 Top plate thickness = 5/16"
 Net weight = 91.8 lb.
 Rubber cover on top plate.
 Gas cylinder for height adjustment. (See TT-N-24-CDPED for description of gas cylinder operation).

TT-N-24-DPED

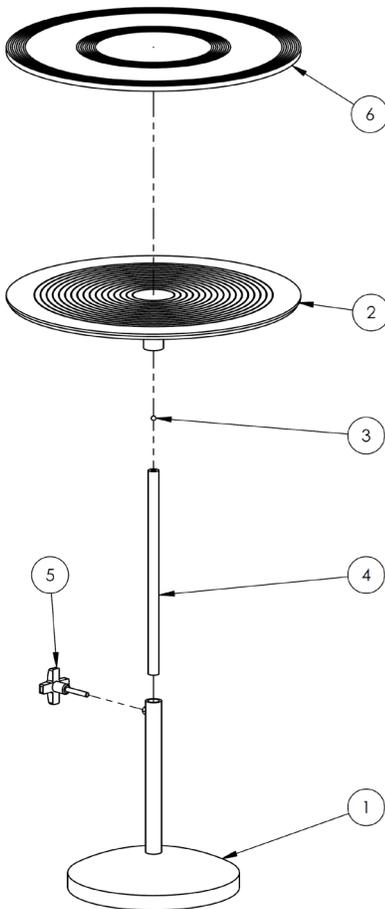


Item	Part no.	Description	Qty.
1	20-514-010	Weldment, frame, base	1
2	20-513-060	Weldment, deck	1
3	20-001-135	13.78" carousel assembly	1
4	20-013-031	Turntable platform plate	1
5	99-025-002	Knob, 3/8" x 2 3/8"	1
6	24214	Flat head socket cap screw, #10-32 x 1 1/4"	4
7	37015	10-32 lock nut, zinc plated	4
8	39956	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
9	20-024-012	Guard, cover, mat	1

Uniform capacity = 300 lb.
 Turntable diameter = 24"
 Lowered height = 24"
 Raised height = 35"
 Top plate thickness = 5/16"
 Net weight = 114.7 lb.
 Rubber cover on top plate.

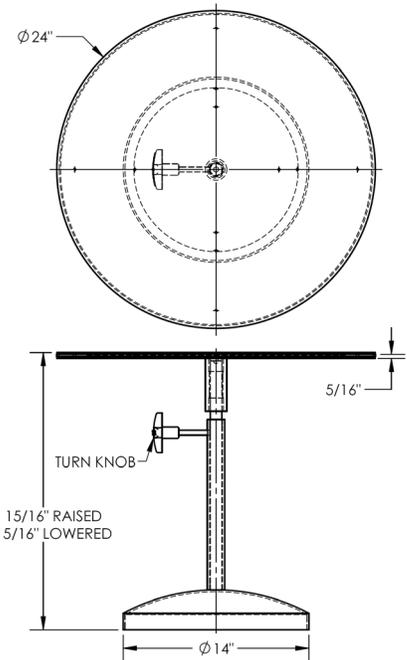
Manual height adjustment with knob tensioner. To adjust tabletop height, loosen knob and position tabletop at desired level; then retighten knob.

TT-N-24-PED



Uniform capacity = 300 lb.
 Turntable diameter = 24"
 Lowered height = 20 15/16"
 Raised height = 31 15/16"
 Top plate thickness = 15/16"
 Net weight = 57.4 lb.
 Rubber cover on top plate.

Manual height adjustment with knob tensioner. To adjust tabletop height, loosen knob, position tabletop at desired level; then retighten knob.



Item	Part no.	Description	Qty.
1	20-514-010	Weldment, frame, base	1
2	20-513-061	Weldment, deck	1
3	99-110-006	Bearing, ball, 3/8"	1
4	20-014-028	Frame, inner shaft	1
5	99-025-002	Knob, 3/8" x 2 3/8"	1
6	20-024-012	Guard, cover, mat	1

TT-N-30-4

Uniform capacity = 500 lb.
 Turntable diameter = 24"
 Overall height = 3¹¹/₁₆"
 Top plate thickness = ⁵/₁₆"
 Net weight = 133.3 lb.
 Rubber cover on top plate.

Item	Part no.	Description	Qty.
1	20-514-094	Frame, weldment, base	1
2	20-001-136	23.6" carousel assembly	1
3	20-013-032	Carousel top plate, TT-30	1
4	24214	Flat head socket cap screw #10-32x1 ¹ / ₄ "	4
5	37015	10-32 lock nut, zinc-plated	4
6	39956	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
7	20-024-013	Guard, cover, mat	1

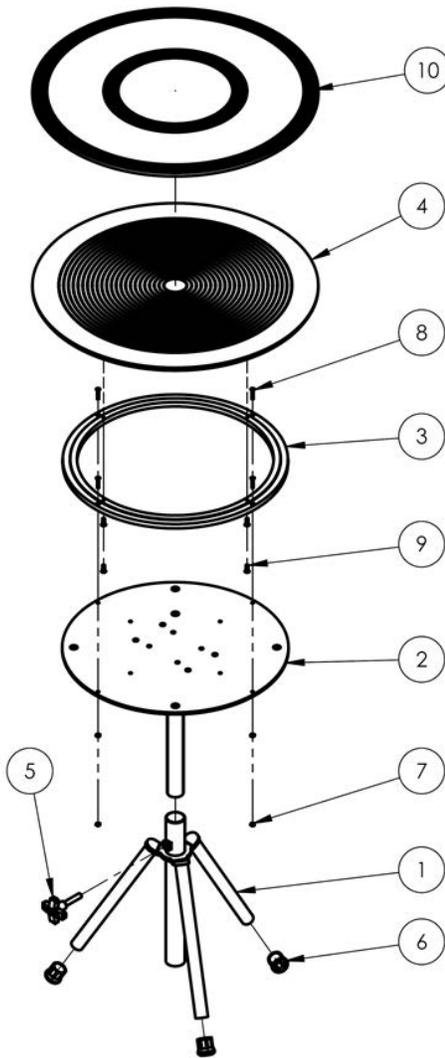
TT-N-30-DPED

Uniform capacity = 300 lb.
 Turntable diameter = 30"
 Raised height = 33¹⁵/₁₆"
 Lowered height = 22¹⁵/₁₆"
 Top plate thickness = ⁵/₁₆"
 Net weight = 149.0 lb.
 Rubber cover on top plate.

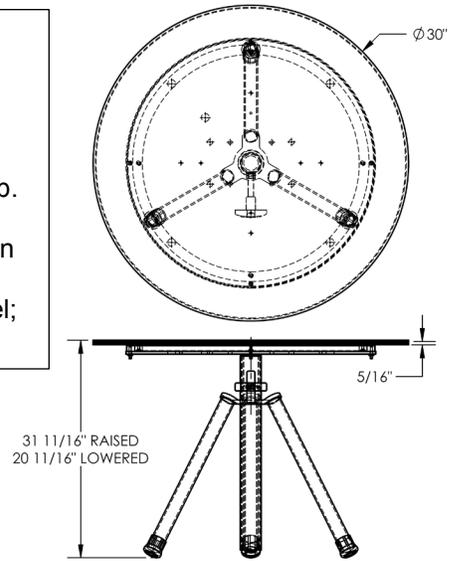
Manual height adjustment with tensioning knob. To adjust tabletop height, loosen knob, position tabletop at desired level; then retighten knob.

Item	Part no.	Description	Qty.
1	20-514-075	Weldment, frame, base	1
2	20-513-062	Weldment, deck	1
3	20-001-136	23.6" carousel assembly	1
4	20-013-032	Carousel top plate, TT-30	1
5	99-025-001	Knob, ¹ / ₂ " thread diameter	1
6	14-037-005	Rubber stop crutch tip	3
7	24214	Flat head socket cap screw, #10-32 x 1 ¹ / ₄ "	4
8	37015	10-32 lock nut, zinc-plated	4
9	39956	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
10	20-024-013	Guard, cover, mat	1

TT-N-30-PED



Uniform capacity = 300 lb.
 Turntable diameter = 30"
 Raised height = 31 11/16"
 Lowered height = 20 11/16"
 Top plate thickness = 5/16"
 Net weight = 127.6 lb.
 Rubber cover on top plate.
 To adjust tabletop height, loosen knob (turn counterclockwise), position tabletop at desired level; then retighten knob.



Item	Part no.	Description	Qty.
1	20-514-075	Weldment, base	1
2	20-513-063	Weldment, deck	1
3	20-001-136	23.6" carousel assembly	1
4	20-013-032	Carousel top plate, TT-30	1
5	99-025-001	Knob, 1/2" thread diameter	1
6	14-037-005	Rubber stop crutch tip	3
7	37015	10-32 lock nut, zinc-plated	4
8	24214	Flat head socket cap screw, #10-32 x 1 1/4"	4
9	39955	Flat socket cap screw, class 10.9, black oxide finish, M6-1.0x25mm	4
10	20-024-013	Guard, cover, mat	1

SIGNAL WORDS:

This manual classifies personal injury risks and situations that could lead to property damage with SIGNAL WORDS. A safety message appears with a signal word that describes an improper/dangerous use of the product. The signal word indicates the seriousness of the injury that could result from the described use.



DANGER Identifies a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**. Use of this signal word is limited to the most extreme situations.



WARNING Identifies a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.



NOTICE Identifies practices likely to result in product or property damage, such as operation that might damage the product.

Hazards:

Study the entire manual before using this turntable. A copy of the manual should be available to users at all times. Read the manual to refresh your understanding of the operation, inspection and maintenance procedures whenever necessary.

⚠️WARNING Improper or careless operation might result in serious personal injuries.

- DO NOT exceed the capacity of your turntable. See *Parts & Specifications* on pp. 2-10; label 287 on product; and *Labeling diagram* on p. 11).
- Center and evenly distribute all loads applied to the table.
- Turn the tabletop slowly when loaded. Spinning the tabletop rapidly might cause the load to spill.
- DO NOT stand, or sit, on the turntable.
- DO NOT use the turntable if any label is unreadable, damaged, or missing. See *Labeling diagram* on p. 11. Contact Vestil for replacement labels.
- DO NOT modify the turntable in any. Modifications might make the crane unsafe to use and automatically void the limited warranty. See appropriate *Limited Warranty* on p. 12 or p. 13.

Record of Normal Condition:

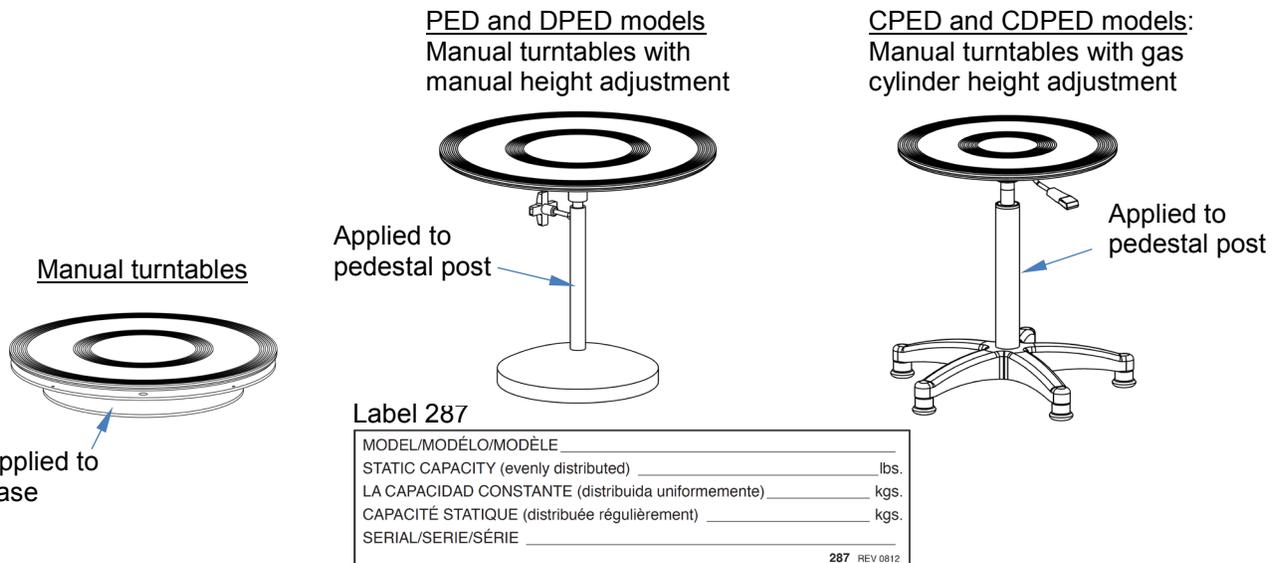
Before putting the turntable into service, make a detailed record that describes the appearance of each component and how the unit looks and sounds while the tabletop rotates. Thoroughly photograph the unit and all labels applied to it. Add the photographs to your record. These observations establish **normal condition**. During later inspections, compare your observations to the record to determine if the unit is in normal operating condition. Do not continue to use the turntable unless it is in normal condition.

Inspections:

If the turntable is used occasionally (2-3 times per week or fewer), inspect the turntable at least once per month as instructed below. Turntables in heavy use should be inspected on a weekly basis. Examine each of the following components:

- Base or pedestal – check for cracks, warps, and damaged welds.
- Knob (adjustable height models only) – make sure that the knob winds smoothly into the threaded opening in the pedestal and is able to press firmly against the stem of the deck to fix the height of the turntable.
- Carousel – rotate the carousel through a complete revolution in both directions. The carousel should rotate smoothly without binding or jerking.
- Top plate – examine the plate for cracks and warps. It should not wobble significantly while the tabletop rotates.
- Rubber cover – confirm that the cover is intact. The purpose of the cover is to prevent items from sliding while the tabletop rotates. Replace the cover if it is damaged.
- Hardware – make sure that all bolts, nuts, washers, etc. are securely fastened. Tighten nuts as necessary.

Labeling Diagram: Only use the turntable if label 287 is applied in the location diagrammed below. All text must be easily readable. Clean the label whenever necessary to maintain legibility from a reasonable viewing distance. Replace the label if it becomes damaged or unreadable.



LIMITED WARRANTY: Pedestal Turntables (model designations ending with -PED, -DPED, -CPED, and -CDPED)

Vestil Manufacturing Corporation (“Vestil”) warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of “original part”?

An original part is a part used to make the product as shipped to the Warrantee.

What is a “proper request”?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

<u>US Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	info@vestil.com Enter “Warranty service request” in subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions (“wearing parts”), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 90 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any *covered* part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

The Warrantee (you) is responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Corp. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.



LIMITED WARRANTY: All models without pedestal. (Warranty for pedestal models appears on preceding page).

Vestil Manufacturing Corporation (“Vestil”) warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

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What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions (“wearing parts”), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 30 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

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