1 -- Important Information

Congratulations on your purchase of the finest pocket transit instrument in the world. The Brunton Pocket Transit is not just a compass. It combines a surveyor's compass, prismatic compass, clinometer, hand level and a plumb into a single instrument. Use the Brunton Pocket Transit to measure azimuth (compass bearing), vertical angles, inclination of objects, percent grade, slopes, height of objects and for leveling.

Even though all Brunton Pocket Transits are made to be rugged, durable and withstand the rigor associated with outdoor use, care must be taken to assure long-life of your instrument. Avoid impacts, dropping, extreme temperatures, store in its case and the Brunton Pocket Transit will perform.

1.1 Opening The Pocket Transit

Rotate the pocket transit until the flat cover faces up, and the small window is positioned away from you. Unlatch the cover from the base. (Fig 1)

1.2 Protecting The Mirror

While in storage, Brunton recommends placing the pocket transit in the case, with the base against the closing snap. (Fig 2)

1.3 Direct Reading

Why are EAST & WEST switched?

Because the pocket transit is a direct reading compass. Read azimuth directly where the needle points on the graduated circle.

With the large sight toward the object, read azimuth directly where the north end of the needle points (white tip - 2001, 2061, 5005LM and 5006LM models, or "N" tip - 5007, 5008 and 8700 Com-Pro models). (Fig 3)

With the small sight toward the object, read azimuth directly where the south end of the needle points (black tip - 2001, 2061, 5005LM and 5006LM, or "S" tip - 5007, 5008 and 8700 Com-Pro models). (Fig 4)

Detailed explanation of sighting an azimuth is in section 4.

2 -- Orientation

Orientation provides a description of important pocket transit parts. A detailed description of its operation is provided throughout the manual.

2.1 Needle (Fig 5)

The needle is induction damped, which allows the needle to seek magnetic north and come to a complete rest in a minimum amount of time, without accuracy degradation.
2.8 Vernier (Fig 5)
The adjustable vernier is used in inclination measurements.

2.9 Long Level (Fig 5)
The long level for inclination measurement. Adjust the long level using the vernier adjustment - 2.11.

2.10 Circle Adjusting Screw (Fig 6)
With a screw driver, rotate the graduated circle by turning the circle adjusting screw.

2.11 Vernier Adjustment (Fig 6)
Use the vernier adjustment to adjust the vernier and long level for inclination measurements.

2.12 Ball & Socket Tripod Mount (Fig 6)
The slots on both sides of the body are for mounting to an optional Brunton tripod.

2.13 Alidade Mount -- Com-Pro Models Only (Fig 6)
The circular extension with slots, located on the bottom of the body, is for the attachment of an optional Brunton alidade (protractor). Only the Com-Pro models have this feature.

3 -- Magnetic Declination

The Earth is completely surrounded by a magnetic field, and an unobstructed magnetized object will orient itself with the earth's magnetic north and south poles. Magnetic declination (variation) is the difference between true geographic north (north pole) and magnetic north (in northern Canada), with respect to your position. It is important to note magnetic declination at your position, because magnetic declination varies and fluctuate slowly at different rates, around the world. (Fig 7, p.5)
The isogonic chart shows North America, only. Use an isogonic chart, or current United States Geological Survey (USGS), Bureau of Land Management (BLM), or another map to determine magnetic declination at your position.

Declination can be east, west or even 0°, from your current position. At 0° declination, true north and magnetic north are aligned.

Example: If magnetic declination at your position is 15° east, then magnetic north is 15° east of true geographic north. Figure 8 displays true geographic north and magnetic north, as indicated in the legends of USGS and BLM maps.

Most maps use true north as a reference. When adjustment for magnetic declination is complete, azimuth readings will be with respect to true north, same as the map.

To adjust for magnetic declination, rotate the graduated circle by turning the circle adjusting screw. Begin with the zero pin at 0°. For East declination, rotate graduated circle clockwise from the zero pin. (Fig 9A) For West declination, rotate graduated circle counterclockwise. (Fig 9B) If magnetic declination is 0°, no adjustment is necessary. (Fig 9C)

4 -- Azimuth Measurement

Azimuth is a term used for direction. Azimuth is normally measured clockwise, in degrees with true north being 0°. Bearing is a term often used when measuring with a quadrant type instrument. From this point forward, description of pocket transit use will involve the 0° through 360° graduated circle, and assume the pocket transit is adjusted for magnetic declination. Example ofAzimuth: If a mountain is directly east of your position, the azimuth from your position to the mountain is 90°. If the mountain is directly south of your position, it would be at 180°.

Caution: The magnetic needle is highly sensitive. When sighting an azimuth, keep the pocket transit away from magnetic materials, such as watches, belt buckles, rings, knives, cigarette lighters, etc.

4.1 Azimuth Using a Tripod or Unipod

When the greatest accuracy is required, mount the pocket transit on a Brunton non-magnetic
4. Press left forearm against your waist and steady with right hand.
5. Level compass using round bubble level.
6. Look into the mirror, and bisect the large sight and the object with mirror center line. (Fig 14)
• Check that bubble is centered in round bubble level.
7. Read azimuth where the "N" end of needle points at the graduated circle.

4.2.b Using "S" End of Needle
Use this method when object is more than 15° below the observer.
1. Hold transit waist high and in your left hand.
2. Open cover away from your body to approximately 45° from level. (Fig 15)
3. Open large sight, until it leans over the body at approximately 45°. (Fig 13)
4. Press left forearm against your waist and steady with right hand.
5. Level compass using round bubble level.
6. Look into the mirror, and bisect the large sight and the object with mirror center line. (Fig 14)
• Check that bubble is centered in round bubble level.
7. Read azimuth where the "S" end of needle points at the graduated circle.

4.3 Using as a Prismatic Compass
Occasionally, objects may interfere with sighting using tripod using Brunton’s Ball and Socket head. See section 11 for ordering information.

1. Adjust pocket transit for magnetic declination.
   • See section 4, Magnetic Declination, for help.
2. Mount transit to the ball and socket head.
3. Open both the cover and large sight, until they extend parallel to the body. (Fig 10)
4. Flip small sight and peep sight up. (Fig 10)
5. Rotate transit until large sight points at object.
6. Level the transit by centering bubble in round level.
7. Sight azimuth by aligning peep sights with object. (Fig 11)

4.2 Azimuth Measurement Waist-Level
This method is often used when object is above or below the observer.

4.2.a Using "N" End of Needle
This method is often used when the object lies as much as 45° above, or 15° below the observer.
1. Hold transit waist high and in your left hand.
2. Open cover toward your body to approximately 45°. (Fig 13)
3. Open large sight, until perpendicular to the body. (Fig 13)
4. Press left forearm against your waist and steady with right hand.
5. Level compass using round bubble level.
6. Look into the mirror, and bisect the large sight and the object with mirror center line. (Fig 14)
• Check that bubble is centered in round bubble level.
7. Read azimuth where the "N" end of needle points at the graduated circle.

If object is more than 45° above you, open mirror further toward your body, and adjust large sight so that it leans over the bottom case. Then repeat the procedures described in 4.2.a.
methods previously mentioned, or user may encounter circumstances which require the transit be held at eye-level to sight an object. If this is the case, follow the procedures below.

1. Open cover away from your body to approximately 45°, and open small sight. (Fig 17)
2. Lift large sight until perpendicular to the body, or leans slightly away from the base. (Fig 17)
3. Hold instrument at eye-level, with large sight toward you.
4. Align large sight and small sight on top of the cover with object.
   • OR - Sight object through the lower portion of large sight and the window in the mirror.
5. Level round bubble level in the reflection of the mirror.
6. Read azimuth in the reflection of the mirror, where the "S" end of needle points at the graduated circle.

The Brunton Pocket Transit is capable of measuring vertical angles with accuracy better than 1°, with readings to 10 minutes. It can also display percent grade, without any calculation.

5.1  Inclination and Percent Grade Using Tripod

Use a tripod, or unipod for greatest inclination accuracy possible.

1. With pocket transit attached to the tripod using the ball and socket mount, tilt the head 90°. (Fig 19).
   • Transit should be on its side.
2. Lock into position using the clamp screw.
3. Align sights with object behind transit. (Fig 19)
4. Adjust vernier until bubble is centered in long level.
5. Read inclination at vernier's center line from the degree scale -- 26°. (Fig 20)

5.1.a -- inclination to the nearest 30 minutes
When 30 minute readable accuracy is required, use the vernier scale (0--60 min. with 10 min. increments).
1. Read inclination at vernier's center line -- 26° + ??.
2. Find minutes by determining whether the 30 or 60 min. line is closest to a degree marking.
   • A Loupe or magnifier may be required.
   Since the 30 minute line is closest, the total angle is 26° + 30' (26° 30' or 26.50°)

5.1.b -- percent grade
When percent grade is required use the percent scale directly above the vernier.
1. Read nearest percent grade at the vernier's center line -- 50%. (Fig 20)

For greater accuracy, calculate the percent grade using the following equation.
Percent Grade = [ tan(θ) x 100 ]

Measure the angle of inclination, θ = 26.5°. Then calculate the tangent of 26.5° using a calculator. Finally, move the decimal two places to the right (multiply by 100).
5.2 Inclination Using Prismatic Compass

The pocket transit can also measure angles of inclination without a tripod.

1. Open small sight and large sight as far as possible.
2. Flip peep sight up on large sight.
3. Position Cover to approximately 45°.
4. With large sight pointing toward you, position transit at eye-level with cover open to the left. (Fig 21)
5. Sight object behind transit, aligning small sight, window and peep sight with object.
6. In mirror, adjust vernier until bubble in long level is centered.
7. Read inclination or percent grade at vernier’s center line.

5.2.a Height Measurement Using Vertical Angles

1. Sight inclination, as described in section 5.2.
2. Apply height calculation as shown in Figure 22A or 22B.

**Note:** Do **not** calculate tangent of an angle by adding tangents of two smaller angles.

5.2.b Height Measurements Using % Grade

**Level Ground**
Height = \((\tan A + \tan B) \times \text{Distance}\)

**Sloping Ground**
Height = \((\tan A - \tan B) \times \text{Distance}\)

**Example:**
A = 72.7%, B = 17.6% & Distance = 50 ft.
Height = \((0.727 + 0.176) \times 50\)
Height = 45.15 ft. = 45'

**Example:**
A = 38°, B = 10° & Distance = 75 ft.
Height = \((\tan(38°) - \tan(10°)) \times 75\)
Height = 45.38 ft. = 45'

6 -- Compass Use with a Topographic Map

1. Sight % Grade using level or sloping ground, same as in Figures 22A & B, p. 11.
2. Apply height calculation, as show in figures 23A & 24B.

A United States Geological Survey (USGS) topographic map is a 2-dimensional drawing of 3-dimensional terrain. Hills, valleys, ridges, cliffs and other terrain are represented through a series of contour lines. Each line represents constant elevation in feet or meters above sea level. Find the contour interval in the legend of the topo-map. With practice, you’ll begin to recognize contours, labeling and identify passable routes.

6.1 Map Azimuth

1. On the topo-map, place a “point” at a starting position and an “X” at a destination.
The transit can be used as a level, to run level lines, or to determine points of elevation which is the same as the user's eyes.

1. Adjust Vernier to 0° inclination, using the lever on the back of the body.
2. Place transit on its side, on an object, or use the tripod. (Fig 26)
3. Tilt instrument until the bubble is centered in the long level.

7.2 Plumb Bob
1. Suspend the transit in an open position from the large peep sight. (Fig 26)
2. Use the small sight as the pointer.

7.3 Inclination
1. Place instrument on its side on an object. (Fig 26)
2. Move lever on the back of the body until the bubble in the Long Level is centered.
3. Read inclination in either degrees or % grade.

If you were to discover gold, silver, or another valuable mineral deposit, you would want to “stake a claim”. It would be necessary to construct a map of your claim, and locate your claim relative to some known position. Your Brunton Pocket Transit is ideally suited for this job, since it is essentially the same instrument used by geologists, mining engineers for prospecting and mapping around the world, since 1896.

8.1 Laws Governing Prospecting
In 1872 the General Mining Laws were enacted, and since then more laws have been passed governing the western United States. Currently, state laws vary widely and the federal laws concerning mining claims are quite vague. A discussion of the law is beyond the
scope of this manual and it is strongly advised that you contact your state and federal agencies for information concerning “staking a claim”.

Following, is general information on mining claims for basic understanding.

RULES AND LAWS MAY HAVE CHANGED.

1. **Lands Open to Mining Claims** - Lands available for mining claims can be determined by examining records from the Federal Land Office and the U.S. Bureau of Land Management (BLM), for your state. Generally, mining claims are limited to western states, where public land still exists. This includes public lands administered by the U.S. Forest Service, and U.S. BLM. It excludes national parks, monuments, state owned land and privately owned lands.

2. **Qualification** -- An individual must be a United States citizen, or one who has declared their intention to become a citizen. A corporation must be organized under the laws of the United States, or one of the fifty states. There are no restrictions as to age or residency.

3. **Federal Requirements** - The location must be distinctly marked on the ground so that its boundaries can be readily traced. All records of mining claims shall contain the name, or names of the locators, the date of the location and such a description of the claim or claims located by reference to some natural object or permanent monument as will identify the claim.

4. **State Requirements** - Each mining district may make regulations not in conflict with the laws of the United States, or with the laws of the state or territory in which the district is situated governing the location, manner of recording and amount of work necessary to hold position of a mining claim. This means the details of location are left to the states.

5. **Type of Claims** - There are four types of claims: lode claims, placer claims, mill sites, and tunnel sites. *Only lode claims are discussed here.*

6. **Lode Claims** - A lode is defined as a zone or belt of mineralized rock lying within boundaries clearly separating it from the neighboring rock. The dimensions of a lode claim are a maximum of 1,500 feet along the lode or vein, and no more than 300 feet to either side of the vein; end lines must be parallel.

**Following, is an example of state regulations – Nevada lode claim location requirements.**

1. Erect a discovery monument at the point of discovery, and post thereon a location notice containing: (a) the name of the claim, (b) the name and mailing address of the locator, (c) the date of location, (d) the number of linear feet along the vein each way from the discovery monument, with the width claimed on either side of the vein, and (e) the general course of the vein. (NRS 517.010)

2. All monuments must consist of (a) a tree cut of 3 or more feet above the ground and blazed, (b) a rock pile 3 or more feet in height, or (c) a 4-inch diameter post at least 4 1/2 feet in length set 1 foot in the ground. (NRS 517.030)

3. Within 20 days of posting the location notice, mark the boundaries of the claim by placing monuments at the four corners and center of each side line. (NRS 517.030)

4. Within 90 days of posting the location notice, prepare two copies of a claim map (scale of 500 feet to the inch) showing the position of the claim monuments, the relationship of the claim monuments and the relationship of the claim group to a survey corner, or claim location marker. The marker must be a rock pile 4 feet in diameter and 4 feet high, or a steel post 3 inches in diameter and 5 feet high. The description must also include the section, township and range. The map need not be perfect, but “in accordance with the locator’s abilities.” (NRS.030) The maps must then be filed with the county recorder. (NRS 517.040)

5. Within 90 days of posting the location notice, record duplicate location certificates with the county recorder containing the following information *(NRS 517.050):*
   
   a. The name of the lode or vein.
   
   b. The name of the locator or locators, together with the post office address of such locator or locators.
   
   c. The date of the location.
   
   d. The number of linear feet claimed in length along the course of the vein each way from the point of discovery with width of each side of the center of the vein, and the general course of the lode or vein as near as may be.
   
   e. A statement that the location work consisted of making the maps as provided in (NRS 517.040).
f. The location and description of each corner, with the markings thereon.
6. Only one location may be claimed on each location notice or location certificate (NRS 517.020, 517.050).

7. Penalty for late recording: "any record of the location of a lode mining claim which shall not contain all the requirements named in this section recorded on or after July 1, 1971, shall be void, and every location of a mining claim recorded on or after July 1, 1971, shall be absolutely void unless a certificate of location thereof substantially complying with the above requirements is recorded with the county recorder of the county in which the claim is located within 90 days after the date of location." (NRS 517.050 (2))

Other states commonly require some form of discovery work other than preparation of a map. This may consist of digging a shaft or drilling a specified footage of discovery holes. Check the mining statutes of every state to determine its specific requirements.

8.3 Sample Claim Location Map

By specifying the township and range, a township area of land is located. The large squares in figure 27 are townships. For example, T22S, R22E specifies the township area with 36 sections, each numbered and 1 mi² (640 acres) apiece. This makes a township is 36 mi². A 1 mi² section of land is located by calling out the section number, township and range -- Section 4, T22S, R22E.

A section is further divided into quarter sections by straight lines connecting quarter section corners or opposite boundaries. There are eight monuments on each section. One monument on each corner and one midway between corners on the section boundary lines (not shown).

If your claim is in a surveyed area of public land, it will be located within a section shown on a topo-map. To locate your claim, it is then necessary to tie, or locate your claim relative to a section corner post by showing the bearing to the corner post, the number of feet to the post and the section, township and range.

The bearing is obtained with your Brunton Pocket Transit by selecting one of your claim corners as your tie point, and sighting from the tie point to the section corner post.
to the South East corner of Section 32, T22S, R22E was found to be 110°. (Fig 29, p. 20). Note, the distance to the section corner must also be provided.

8.4 Location On Unsurveyed Land
Not all of the U.S. has been surveyed. As of 1970, about 500,000,000 acres were still unsurveyed. Most of the unsurveyed land is located in mountainous sections of the country. Since then, however, more has been surveyed. Check with the Federal Land office, or the U.S. Bureau of Land Management of your state.

If your claim is located in one of the unsurveyed areas (no corner post to locate, or tie your claim), you must locate your claim in reference to some natural land mark. A natural land mark being a mountain top, intersection of a river and a stream, etc.

8.4.a Using Bearing & Distance
Figure 30 shows a claim tied to Blue Mountain Peak by an azimuth of 81°, and a distance to Blue Mountain Peak of 7,000 feet from a corner monument.

8.4.b Using Two Bearings
The claim in figure 31 is tied to two azimuth readings from a corner monument. Using this method, distance is not required, since the intersection of both azimuth lines determine the location.

8.4.c Using Five Bearings
A more complete description of your claim can be determined by displaying the direction of the sides of your claim. The angles are found by standing on corner #1 and taking an azimuth to corner #2. Then standing on corner #2 and taking an azimuth to corner #3. Finally, from #3 to #4 and from #4 back to #1, thus completing the description.

9 -- Reference Material

\[
\sin(\theta) = \frac{A}{C} \quad \csc(\theta) = \frac{C}{A} \\
\cos(\theta) = \frac{B}{C} \quad \sec(\theta) = \frac{C}{B} \\
\tan(\theta) = \frac{A}{B} \quad \cot(\theta) = \frac{B}{A}
\]

A = side opposite angle \( \theta \)
B = side adjacent to angle \( \theta \)
C is the hypotenuse
\[ C^2 = A^2 + B^2 \]
### Specifications

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**Description of the claim shown in Figure 32, would read:**

Beginning at Corner #1, the NE corner of the claim.

Thence 600 feet, 290° to Corner #2.

Thence 1,500 feet, 200° to Corner #3.

Thence 600 feet, 110° to Corner #4.

Thence 1,500 feet, 10° to Corner #1.

### Magnetism
- Models - 2001 & 2061 (Alnico II Bar Magnet)
- Models - 5005LM & 5006LM (Alnico V Bar Magnet)
- Models - 5007, 5008 & 8700 Com-Pro (NdFeB Magnet)

### Accuracy
- Bearing -- +/- 1/2° accurate
- Inclination -- +/- 1° accurate (30 minute readable)

### Size (Closed)
- Width -- [2001, 2061, 5005LM & 5006LM models] - 2.79 in. (7.09 cm)
- Width -- [5007, 5008 & 8700 models] - 2.76 in. (7.01 cm)
- Length -- [2001, 2061, 5005LM & 5006LM models] - 3.09 in. (7.84 cm)
- Length -- [5007, 5008, 8700 models] - 3.14 in. (7.97 cm)
- Height -- [2001, 2061, 5005LM & 5006LM models] - 1.31 in. (3.34 cm)
- Height -- [5007, 5008, 8700 models] - 1.33 in. (3.38 cm)

### Engraving
- A Brunton Pocket Transit with a cast aluminum body can be personalized with engraving (up to 18 characters, including spaces). Com-Pro models have a decal which can have up to 6 lines of text (approximately 20 characters per each line, including spaces). Call Brunton at (307) 856-6559 for details.

### Balancing
- Brunton Pocket Transits can be balanced for use in a specific part of the world. Special balancing is required for use in the southern hemisphere. Call Brunton for details.

### Repair
- Brunton’s repair department is capable of handling repairs, or conversions of any genuine BRUNTON Pocket Transit. Periodic maintenance and calibration is highly recommended and will prolong the life of your pocket transit. Call Brunton for details.
Accessories

3051
Jacob Staff Thimble
Attaches transit to steel tipped wooden rod or Jacob's staff. Ball and socket head is also required.

3040
Ball & Socket
Attaches transit to tripod. Swivels 90° in any direction for reading vertical angle measurements and rotates 360° for horizontal measurements.

3051
Non Magnetic Tripod
(shown with transit attached)
Provides maximum accuracy for transit readings. Sturdy extruded aluminum legs, cast aluminum top and heavy duty joints. 48” extended, 19 1/2” closed.

Brunton Professional Instruments

Pocket Transits

MODEL | NEEDLE/GRADUATIONS
-------|------------------------
2001   | Conventional, QUADS - 4x90°
2061   | Conventional, 0-360°
5005LM | International, QUADS - 4x90°
5006LM | International, 0-360°

Sighting Compasses

Gives bearing, height, distance or inclination to objects. Sturdy anodized aluminum body. Available with nylon or leather case.
Warranty Registration

Detach and return to: Brunton, 620 East Monroe Avenue, Riverton, WY 82501-4997

Name: _________________________________________________________________

Address: _______________________________________________________________

City: _______________________________ State: __________ Zip: ______________

Phone: _________________________________________________________________

Model #: __________________________ Serial #: _____________________________

Date Purchased: ______________ Store: _______________________________

City: _______________________________ State: _________ Zip: ______________

Amount Paid: ____________________________________________________________

Do you own another Brunton / Nexus Product?

(   ) Yes. Product: _________________________________________ (   ) No.

I decided to buy this product because of ...

(   ) Recommendation (   ) Store Display (   ) Features

(   ) Magazine (   ) Salesperson (   ) Gift

(   ) Catalog (   ) Newspaper

This pocket transit will be used for ...

(   ) Geology (   ) Archeology (   ) Mining

(   ) Mapping (   ) Forestry (   ) Camping

(   ) Hunting (   ) Backpacking (   ) Orienteering

Occupation: ______________________________________________________________

Annual Income:

(   ) < 20,000 (   ) 20,000 - 39,000

(   ) 40,000 - 74,999 (   ) 75,000 - 99,999 (   ) > 100,000
The Brunton Company warrants this product to be free of defects in materials and workmanship. This warranty extends to the original purchaser for one year from the date of purchase.

This Warranty is void and a charge for repair will be made if:

1. The product has been damaged by negligence, accident or mishandling, or has not been operated in accordance with standard operating procedures.

2. The product was altered or repaired by other than a Brunton repair facility, or adaptations or accessories other than Brunton accessories have been attached to this Brunton product.

This warranty gives you specific legal rights, and you also have rights which vary from state to state. No other warranty, expressed or implied, applies to the Brunton product, nor is any person or company authorized to assume any other warranty for Brunton. Brunton does not assume any responsibility for any consequential damages occasioned by this product.

Should the product prove defective, call the Brunton Company, and Brunton will provide you with a return authorization number. Send a copy of your proof of purchase, the return authorization number, a short description of the problem and the product to Brunton at the following address. Brunton suggests insuring the product in case of damage or loss in shipment.

Transit Repair Department
The Brunton Company
620 East Monroe Avenue
Riverton, WY 82501-4997
(307) 856-6559