

CALLERLAB

FORMATION PICTOGRAMS



June 17, 2025

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Table of Contents

Preface	1
Formations	1
Scope of this document	1
Understanding the pictograms	1
A formation may have no name	1
A formation may have more than one name	2
Right-Hand formations and Left-Hand formations	2
Handholds	3
Breathing	5
General formations	6
T-Bone formations	6
Arrangements and normal formations	7
Smaller formations	7
Compound names and descriptions of subformations	7
Organization of pictograms	8
Formation Pictograms	9
Formations Commonly Used at Basic, Mainstream, and SSD	10
Formations Commonly Used at Plus	12
Formations Commonly Used at Advanced	13
Formations Commonly Used at Challenge (C-1)	14
Formations Commonly Used at Challenge (C-2)	21
Formations Commonly Used at Challenge (C-3A)	24
Appendix: Handholds, Wave Adjustment, Breathing, and Handedness	25
Selected Formations Commonly Used at Basic, Mainstream, and SSD	26
Selected Formations Commonly Used at Plus	28
Selected Formations Commonly Used at Advanced	29
Selected Formations Commonly Used at Challenge (C-1)	30
Index	31
History of Document Changes	36

Preface

Formations

The term *formation* refers to two aspects of a group of dancers: the geometric shape of the dancer locations (often called “spots” or “spots on the floor”) and the facing directions of the dancers within that shape. Three commonly used eight-dancer geometric shapes are a square (that is, the spots of a Squared Set), a circle, and a 2x4 rectangle. Some common formations that all have the geometric shape of a 2x4 rectangle are Facing Lines, Eight Chain Thru, Right-Hand Parallel Ocean Waves, and Left-Hand Columns; what differentiates these four formations is the facing directions of the dancers with respect to the 2x4 shape. The formation does not refer to the orientation relative to the walls of the room: for example, from a Squared Set, the calls Heads Square Thru 4 and Sides Square Thru 4 end in the same formation (an Eight Chain Thru formation).

Scope of this document

This document provides names for formations that appear in Modern Western Square Dancing. These names are used in call definitions, especially when listing the starting and ending formations for each call. They may also be used when teaching square dancing, or when callers or dancers are communicating with each other. Other CALLERLAB documents, especially those related to Caller Training, also use these formation names.

Usually a formation is given a name because it is where some call begins or ends, or because it occurs partway through a multipart call. This document does not provide a name for every possible formation. Formations are omitted that are rarely used or discussed or for which there is no name in common use.

In this document nearly all the eight-dancer formations depicted are symmetric. Smaller formations that are asymmetric, for example a Triangle or a 3x1 Line, are included because they can be part of symmetric eight-dancer formations.

Understanding the pictograms

Each formation is defined by a corresponding pictogram in which each dancer is represented by a circle. On the edge of the circle may be a black half-dot, called a “nose,” which indicates a facing direction. If a circle has no nose, then that dancer can be facing any of the four walls. If a circle has two noses, then that dancer can be facing in either of the two indicated directions.

Pictograms represent an idealized placement of dancers for “theoretical purposes.” In practice, the locations of dancers and the relative distance between dancers may vary slightly. For example, Facing Lines are usually danced further apart than Lines Facing Out; similarly, the positions on an actual dance floor of dancers in an Ocean Wave may be slightly staggered rather than lying precisely along a geometric line. (See the sections on “Handholds” and “Breathing” below.)

A formation may have no name

Not all specific formations have names. One might describe such formations by narrowing down a general formation (for example, “Inverted Lines, ends facing in”) or by explaining how dancers get there starting from a Squared Set or other specified formation (for example, “what you get after Heads Star Thru and Side Girls U-Turn Back”).

A formation may have more than one name

Some formations are known by several names. For example, the eight-dancer formation formed after Heads Star Thru from a Squared Set was named Double Pass Thru by CALLERLAB in 1979. It has also been called Starting Double Pass Thru and Beginning Double Pass Thru, and in certain contexts is also called Zero Tag. This document gives each depicted formation a *primary name*—or in some cases, such as pictogram 124, a cross-reference to another pictogram that gives the primary name—and may list after it other names that are in use. If more than one name is shown, they are separated by a slash “/” or by horizontal lines. Capitalized words or phrases shown in parentheses are optional parts of the formation name; all-lowercase words or phrases shown in parentheses are suggested helper words. Words in square brackets are comments, not part of a name and not intended to be spoken by a caller when calling.

Right-Hand formations and Left-Hand formations

Any of the pictograms in this document can be turned upside down or sideways, or studied from any angle; it will still represent the same formation, no matter how it is rotated.

Some formations are also the same if you look at them in a mirror. Formations whose mirror images are *different* have *handedness*. When the distinction is choreographically important, the phrase “Right-Hand” is used to describe the version in which the majority of dancers either have handholds using their right hands or have their right shoulders toward the center of the formation; its mirror image is labeled “Left-Hand.”

The main part of this document presents pictograms for only the Right-Hand versions of such formations. In all cases, if the primary name of a formation begins with the phrase “Right-Hand” then replacing that phrase with “Left-Hand” produces the primary name of that formation’s mirror image. For example, a Mini-Wave may be Right-Hand or Left-Hand:



Right-Hand Mini-Wave
[see pictogram 2]

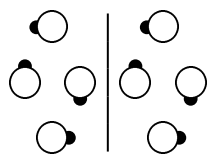


Left-Hand Mini-Wave
[not shown in main part of this document]

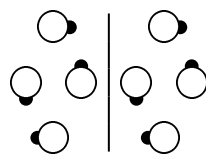
The formation Right-Hand Mini-Wave is shown in the main part of this document as pictogram 2; its mirror image, the Left-Hand Mini-Wave, is not shown, but its separate existence and primary name may be inferred from the primary name “Right-Hand Mini-Wave.”

In *almost* all cases, if the primary name of a formation begins with the phrase “Right-Hand,” then *omitting* that phrase produces a primary name that can refer to either the Right-Hand or Left-Hand form of that formation. For example, a formation described as simply a “Mini-Wave” may be a Right-Hand Mini-Wave or a Left-Hand Mini-Wave. (Exception: For historical reasons, “Box” refers to any 2x2 formation, not just a Right-Hand Box or a Left-Hand Box.)

If a formation is different from its mirror image, but its primary name does not begin with “Right-Hand” or “Left-Hand,” then typical helper words to distinguish the two forms may be shown in parentheses. For example, pictogram 102 shows a Facing Diamonds formation that has a distinct mirror image, but it is not labeled “Right-Hand” or “Left-Hand” because in each Diamond two dancers have right hands or shoulders toward the center and two dancers have left hands or shoulders toward the center. Instead, the more explicit helper phrase “centers have right hands” is shown in parentheses, to indicate that those words, while helpful, are not part of the primary name of the formation. A helper phrase for the mirror image can be derived by replacing “right” with “left” (and vice versa):

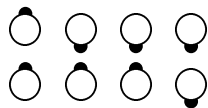


Facing (Twin) Diamonds
(centers have right hands)
[see pictogram 102]

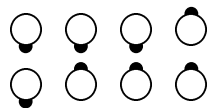


Facing (Twin) Diamonds
(centers have left hands)
[not shown in main part of this document]

or in some cases by replacing “beau” with “belle” (and vice versa):

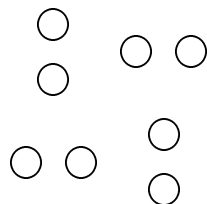


3-and-1 Lines
(centers facing in, ends are beaus)
[see pictogram 208]

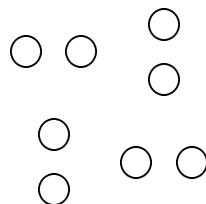


3-and-1 Lines
(centers facing in, ends are belles)
[not shown in main part of this document]

In cases where a formation has handedness but identifying its handedness is usually not important, it may be that only one of two mirror-image forms is shown, but with the comment “[typical]”; a good example of this is pictogram 374 for the Phantom Spots introduced at C-1; it is not the same as its mirror image:



Phantom Spots [typical]
[see pictogram 374]



Phantom Spots
[not shown in main part of this document]

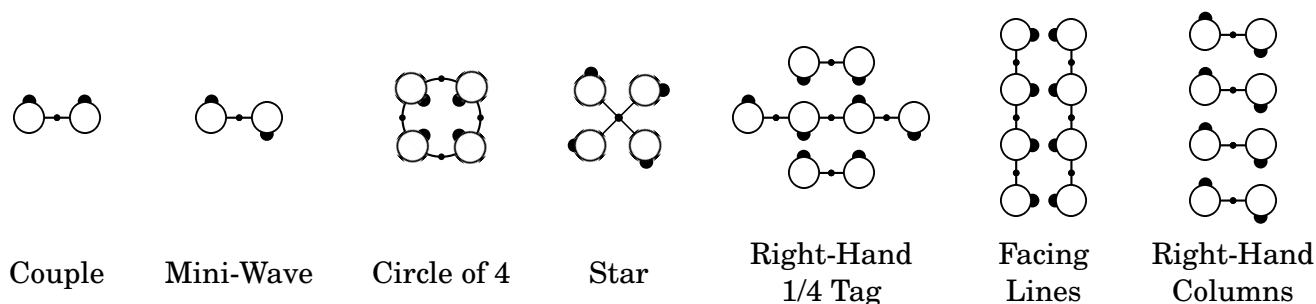
but the distinction between them is more in the nature of clockwise versus counterclockwise than right-handed versus left-handed, and this distinction is rarely choreographically important and rarely discussed, so only one of the two is presented (with the comment “[typical]”).

Handholds

Dancers that are laterally adjacent customarily reach out and establish *handholds*. Alternate styles of pictogram, sometimes used in other documents about square dancing, indicate these handholds explicitly. A dancer with arms and hands held out to the sides might be depicted in this way:



Here are some examples of pictograms that show handholds:

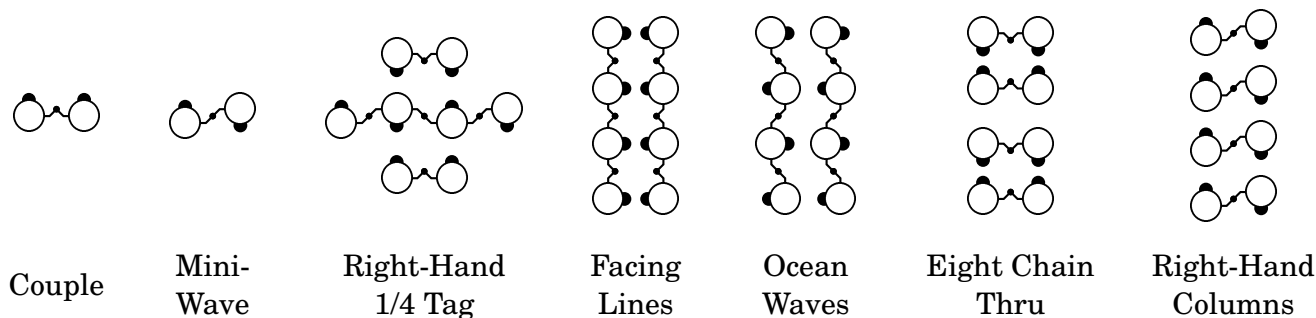


The pictograms in the main part of this document do *not* show handholds, except for stars. In every depicted formation, it may be assumed that if two dancers are laterally adjacent (within either a line or circle), they customarily establish an appropriate handhold if there is time to do so.

There is another subtle point about handholds: dancers generally do not hold their arms straight out to the side when establishing handholds, but prefer to keep their elbows bent, which positions their hands slightly forward. Some alternate styles of pictogram depict this preferred forward positioning of the hands; here is one example:



Holding hands forward in this way need not affect dancer positioning when all dancers in a line are facing the same way, but it does require an adjustment if dancers are facing in opposite directions. This “wave adjustment” is relatively small—only a handbreadth or two. Pictograms that reflect this adjustment make it easier to see why the term “wave” is used to describe a line in which dancers have alternating facing direction.

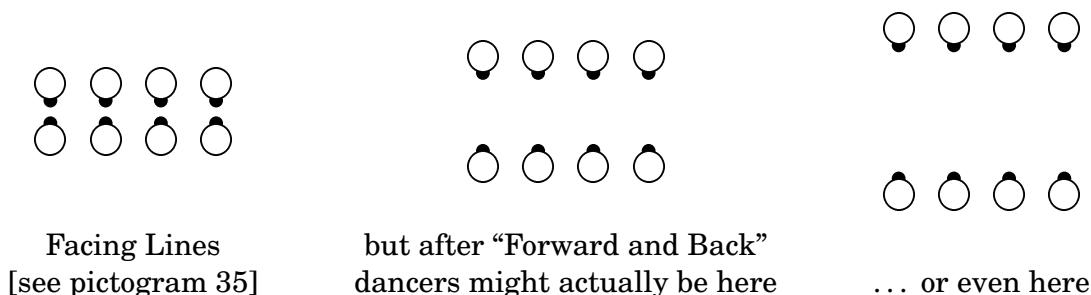


The implicit wave adjustment is taken for granted in many call definitions. For example, the definition of U-Turn Back says “The dancer does an individual about-face turn (180 degrees) *in place*” (emphasis added)—but from Parallel Ocean Waves, the call Leaders U-Turn Back (which results in Facing Lines) actually requires each Leader not only to turn 180 degrees but also to step forward a short distance while doing so.

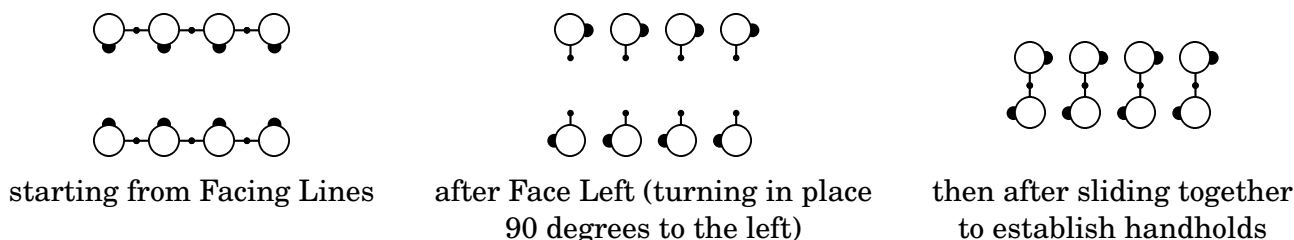
The pictograms in the main part of this document do *not* depict wave adjustments, in part to make it easier to compare formations that have the same *theoretical* geometric shape but differing facing directions for some or all dancers. (For example, Facing Lines, Right-Hand Ocean Waves, Eight Chain Thru, and Right-Hand Columns are all Two-by-Four formations, and this may be easier to see from pictograms that omit the wave adjustment.) In every depicted formation, it may be assumed that if two dancers are laterally adjacent in a formation, facing in opposite directions, and establish the customary handhold, they will adjust their positions slightly as needed to accommodate that handhold, so the shape of the actual formation will not match the pictogram exactly.

Breathing

Dancers may also occupy slightly different positions on the dance floor because of *square breathing*. Dancers generally prefer to have some extra space in front of them. After the call “Forward and Back” from Facing Lines, the actual positions of dancers will *not* lie on a geometric 2x4 grid:

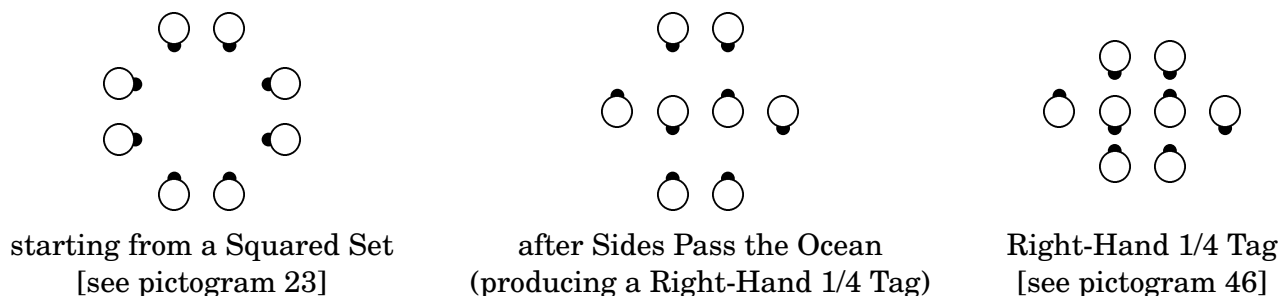


Nevertheless, these are all considered to be examples of Facing Lines, and dancers make any necessary adjustments as they begin the action of the next call. For example, if Facing Lines are far apart and the next call is Face Left, then after turning 90 degrees in place, dancers will automatically slide together so that they can establish handholds:



Experienced dancers will blend the turning action and sliding action into one smooth motion.

Similarly, starting from a Squared Set, the call Sides Pass the Ocean produces a formation in which the outsides are farther from the center than shown in the standard pictogram for 1/4 Tag:



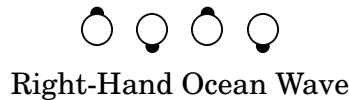
(In this case, there is usually no reason for dancers to breathe inward before doing the next call.)

As a general rule, the pictograms in the main part of this document do *not* illustrate breathing. The pictogram for each formation assumes that the dancers have “breathed inward” to the point that they are separated along each axis from nearby dancers by one “dancer unit,” which is the distance that normally separates dancers that are laterally adjacent in a line. (The one exception is that some pictograms of very long formations such as tidal waves—for example, pictogram 48—show the dancers even closer together than that, partly to save space in the document and partly because dancers sometimes actually do pack themselves more tightly together when in such formations, especially when there are adjacent squares on the dance floor.)

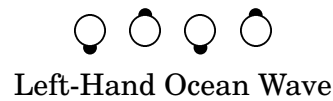
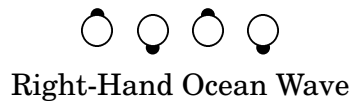
See the Appendix (page 25) for a selection of pictograms that show dancer handholds and the dancer positioning that might result from the wave adjustment and breathing.

General formations

Some formation names are very specific; for example, the name “Right-Hand Ocean Wave” applies to exactly one formation:



On the other hand, the name “Ocean Wave” can refer to either of two specific formations:



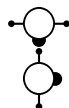
This is convenient because, for example, when we say that Recycle takes an Ocean Wave to Facing Couples, we are simultaneously thinking of Right-Hand Ocean Wave and Left-Hand Ocean Wave as possibilities. Similarly, a Two-Faced Line includes the possibility of either a Right-Hand Two-Faced Line or a Left-Hand Two-Faced Line.

This idea works with many other formations; for example, a Diamond is the general formation that includes a Right-Hand Diamond, a Left-Hand Diamond, either kind of Facing Diamond, and also those called a “Funny Diamond” at C-2.

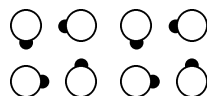
Some of the pictograms in this document show *general formations* that stand for *any one* of a number of more specific formations. If some or all of the dancers in the pictogram have two noses, or no nose, then for each such dancer the facing direction may be freely chosen as described above, and the result will be a specific instance of the general formation.

T-Bone formations

A formation in which there are two adjacent dancers whose facing directions differ by 90 degrees is said to be “T-Bone” or “T-Boned” (if such dancers hold their arms out, they form the letter “T”):



For example, from a Squared set, “Heads Lead Right and All Boys Face In” produces this T-Bone Two-by-Four (and a caller might helpfully comment, “You are T-Boned”):



In this example, some dancers would interpret their situation as being in Facing Lines or a Left-Hand Wave. Other dancers would interpret their situation as being in Left-Hand Columns.

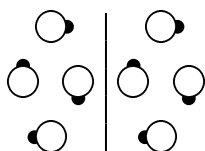
Arrangements and normal formations

Formations do not represent gender in any way, and the name of a formation does not indicate which dancers in the formation are men and which are women. That is why the pictograms in this document represents every dancer using the same symbol, a circle, rather than using squares to represent the men and circles to represent the women. (Phantom dancers are represented by squares with a dashed outline.) The term *arrangement* refers to the positions of the men and women within a given formation, and certain words or phrases, such as *normal* or *half-sashayed*, are sometimes added to the name of a formation to indicate arrangement—for example, in a normal Couple, the Belle is a woman and the Beau is a man. Information on this subject can be found in the CALLERLAB *Formation & Arrangement Charts* document. In particular, the Right and Left Grand Circle *formation* does not imply any particular placement of men and women. Depending on the arrangement, this could be an appropriate starting formation for Right and Left Grand, or for Wrong Way Grand, or neither (if everyone is facing another dancer of the same gender).

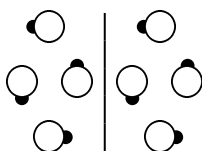
Smaller formations

By considering just some of the dancers in a formation, we get smaller formations. For example, the eight-dancer formation Right-Hand Waves includes two Right-Hand Boxes, one Left-Hand Box (in the center), four Tandems, six Mini-Waves (four of which are Right-Handed), and various others. It can be important to identify these smaller formations (sometimes called *subformations*) because calls are generally defined from the smallest possible formation. For example, Pass Thru is not defined from the eight-person formation Facing Lines, but rather from the two-person formation Facing Dancers.

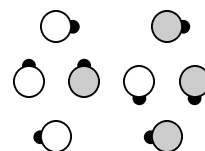
At Challenge, the name of a formation frequently specifies not only the shape of the spots on the floor, but a specific way of dividing that shape into subformations. For example, Right-Hand Diamonds and Left-Hand Diamonds (shown below) have the same overall shape, namely Twin Diamond Spots (see pictogram 312), and furthermore divide that shape in the same way into two four-person subformations, each of which is a Diamond (see pictogram 310); the two formations are distinguished only by the facing directions of the dancers. The division into two diamonds is indicated by a separating line. In contrast, while Right-Hand Interlocked Diamonds (also shown below) has that same overall shape, it divides the formation into two four-dancer subformations in a different way. Because the division into subformations cannot be indicated simply by a separating line, shading is used instead.



Right-Hand Diamonds
[see pictogram 109]



Left-Hand Diamonds



Right-Hand Interlocked Diamonds
[see pictogram 401]

Compound names and descriptions of subformations

If a specific formation does not have a name that uniquely identifies it and no other, then it can be described using a compound name, either by describing a related formation and how it is then transformed into the formation of interest, or by using a more generic name and then describing its subformations.

For example, the Butterfly concept regards a Butterfly formation as the result of distorting Parallel Columns, so a Butterfly formation that could be described as the result of distorting a Completed Double Pass Thru formation (by having the ends slide apart) may be referred to as a “Butterfly Completed Double Pass Thru”; similarly, an O formation that could be described as the result of distorting Magic Columns (by having the centers slide apart) may be referred to as a “Magic O.” Likewise one might refer to “Offset Two-Faced Lines” or “a Stagger Trade By formation.”

An example of describing first the overall formation generically and then some subformations is “a Dogbone, centers in a Right-Hand Two-Faced Line, ends are facing”; this describes one specific formation exactly. Another is “a Galaxy with centers back-to-back”; this leaves unspoken which way the outsides are facing, but may be enough information for a given purpose. If the general formation is clear from context, it may be sufficient to describe only the subformations; as an example, if it is clear that a formation is an instance of General Lines, then “centers have right hands, ends are back-to-back” suffices to describe a specific 3-and-1 Lines formation.

Compound descriptions may also incorporate information (partial or complete) about arrangement or facing direction; examples are “Right-Hand Waves, all boys are facing out” and “3-and-1 Lines, only the center girls are facing in” and “Hourglass Spots, but everyone is facing side walls.”

Organization of pictograms

The pictograms in this document are organized according to program: Basic, Mainstream, and SSD; Plus; Advanced; Challenge C-1; Challenge C-2; and Challenge C-3A. Each formation is shown under the earliest program in this list at which it is widely used or occurs as an intermediate formation of a call in the program. This is only an approximation. For example, some formations listed under Plus (such as Diamonds) certainly occur during the course of a Mainstream dance (for example, halfway through the call Spin Chain Thru), but are usually not a focus of attention and typically are not referred to by name at Mainstream. Conversely, although the first call that requires a Tidal Wave (Grand Swing Thru) is a Plus call, Tidal Wave and Tidal Line formations are commonly occurring starting and ending formations for four-dancer calls at Mainstream; therefore these Tidal formations are listed in this document under Basic, Mainstream, and SSD.






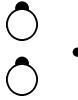
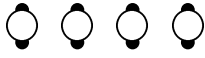




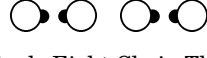


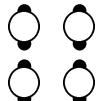
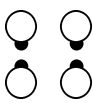
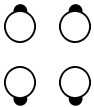
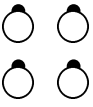
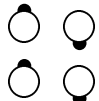

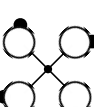

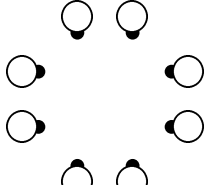
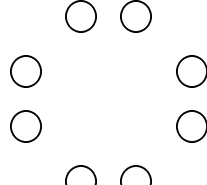
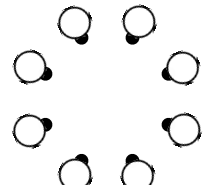
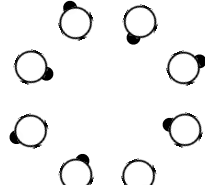
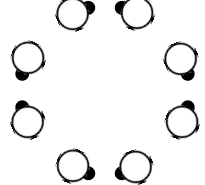
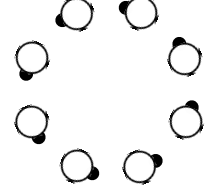
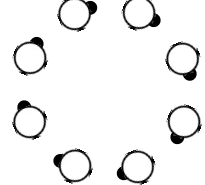
Within each program, pictograms are ordered roughly by the number of dancers in the formation, and related formations that have the same number of dancers are usually on the same page. For convenience of reference, each pictogram has an arbitrarily assigned identifying number, but these numbers have no inherent significance and may change in future editions of this document if new pictograms are added.

In some cases the same pictogram appears more than once—for example, pictogram 50 for Right-Hand Tidal One-Faced Line at Mainstream is identical to pictogram 215 for a typical As Couples Two-Faced Line at Advanced. Similarly, pictogram 373 for Blocks Spots at Challenge (C-1) is identical (except for shading) to pictogram 547 for Stagger Spots at Challenge (C-2). In such cases cross references are included.

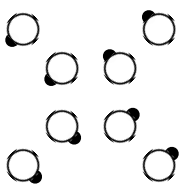
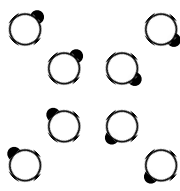
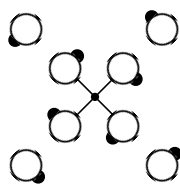
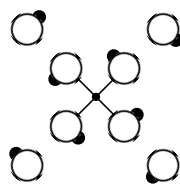
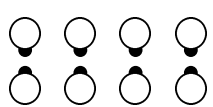
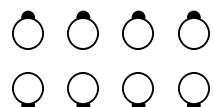
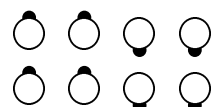
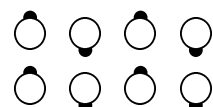
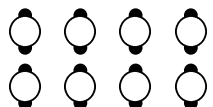
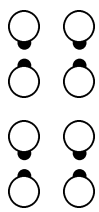
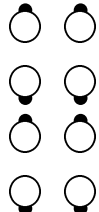
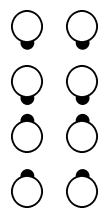
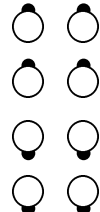
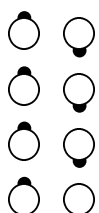
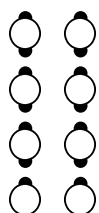
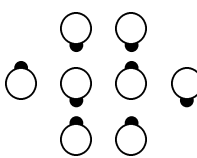
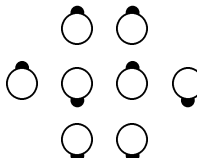




The index at the end of this document lists, for each formation name, the identifying numbers of the pictograms for that name.

Formation Pictograms

Formations Commonly Used at Basic, Mainstream, and SSD

1.  Couple	2.  Right-Hand Mini-Wave	3.  <u>Facing Dancers</u> Circle of 2	4.  Back-to-Back Dancers	5.  Tandem	6.  Tandem and reference point to the right
7.  <u>General Line</u> Line of 4	8.  <u>Line</u> One-Faced Line	9.  Right-Hand Two-Faced Line	10.  <u>Right-Hand Ocean Wave</u> Right-Hand Wave		
11.  <u>General Column</u> Column of 4	12.  Single Eight Chain Thru	13.  Single Double Pass Thru (formation) <u>Facing Tandems</u> Single Zero Tag	14.  Single Completed Double Pass Thru <u>Back-to-Back Tandems</u> Single Full Tag		
15.  Box / General Box / Box of 4	16.  Facing Couples	17.  Back-to-Back Couples	18.  Tandem Couples		
19.  <u>Right-Hand Box</u> Right-Hand Box Circulate (formation) <u>Right-Hand Single 1/2 Tag</u> Right-Hand Single Half Tag	20.  Circle of 4	21.  Right-Hand Star [see pictogram 107]	22.  Right-Hand Stars [see pictogram 108]		
23.  <u>Squared Set</u> Static Square	24.  Squared Set Spots [see pictogram 372]	25.  <u>Circle of 8</u> Circle	26.  Alamo Ring		
27.  Right and Left Grand Circle	28.  Single File Promenade (formation)	29.  Single File Wrong Way Promenade (formation)			






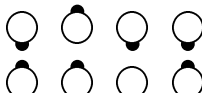
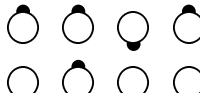
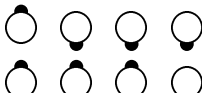
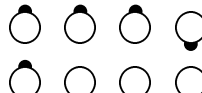
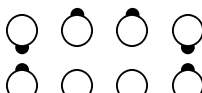
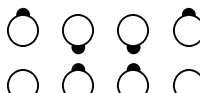





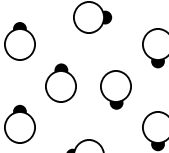
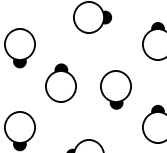
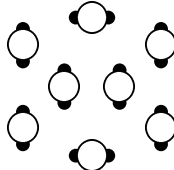

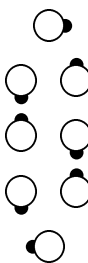

Formations Commonly Used at Basic, Mainstream, and SSD

<p>31.</p>  <p>Promenade (formation)</p>	<p>32.</p>  <p>Wrong Way Promenade (formation)</p>	<p>33.</p>  <p><u>Thar Star</u> Thar</p>	<p>34.</p>  <p>Wrong Way Thar</p>
<p>35.</p>  <p><u>Facing Lines</u> Lines Facing In</p>	<p>36.</p>  <p><u>Lines Facing Out</u> Back-to-Back Lines</p>	<p>37.</p>  <p>Right-Hand (Parallel) Two-Faced Lines</p>	<p>38.</p>  <p>Right-Hand (Parallel) Ocean Waves</p> <hr/> <p><u>Right-Hand (Parallel) Waves</u> <u>Right-Hand 1/2 Tag (formation)</u> Right-Hand Half Tag (formation)</p>
<p>39.</p>  <p>General (Parallel) Lines [16 symmetric possible] Some Kind of Lines</p>			
<p>40.</p>  <p>Eight Chain Thru (formation)</p>	<p>41.</p>  <p>Trade By (formation)</p>	<p>42.</p>  <p><u>Double Pass Thru (formation)</u> <u>Starting Double Pass Thru</u> <u>Beginning Double Pass Thru</u> Zero Tag</p>	<p>43.</p>  <p><u>Completed Double Pass Thru</u> Full Tag</p>
<p>44.</p>  <p><u>Right-Hand Columns</u> Right-Hand Column</p>	<p>45.</p>  <p>General (Parallel) Columns [16 symmetric possible] Some Kind of Columns</p>	<p>46.</p>  <p><u>Right-Hand 1/4 Tag</u> Right-Hand Quarter Tag</p>	<p>47.</p>  <p><u>Right-Hand 3/4 Tag</u> Right-Hand Three-Quarter Tag</p>
<p>48.</p>  <p>Right-Hand Tidal Wave</p>	<p>49.</p>  <p>Right-Hand Tidal Two-Faced Line [see pictogram 214]</p>	<p>50.</p>  <p>Right-Hand Tidal (One-Faced) Line [see pictogram 215]</p>	<p>51.</p>  <p>General Tidal Line / Line of 8 [16 symmetric possible] Some Kind of Tidal Line</p>

Formations Commonly Used at Plus

<p>101.</p> <p>Right-Hand Diamond</p>	<p>102.</p> <p>Facing Diamond (centers have right hands)</p>	<p>103.</p> <p>Right-Hand Z (centers are leaders)</p>	<p>104.</p> <p>Right-Hand Z (centers are trailers)</p>
<p>105.</p> <p>Right-Hand Single 1/4 Tag Right-Hand Single Quarter Tag</p>	<p>106.</p> <p>Right-Hand Single 3/4 Tag Right-Hand Single Three-Quarter Tag</p>	<p>107.</p> <p>Right-Hand Star (aligned to walls) [see pictogram 21] Gear</p>	<p>108.</p> <p>Right-Hand Stars (aligned to walls) [see pictogram 22] Gears</p>
<p>109.</p> <p>Right-Hand (Twin) Diamonds</p>	<p>110.</p> <p>Facing (Twin) Diamonds (centers have right hands)</p>	<p>111.</p> <p>General (Twin) Diamonds</p>	<p>112.</p> <p>General Point-to-Point Diamonds</p>
<p>113.</p> <p>Right-Hand Point-to-Point Diamonds</p>	<p>114.</p> <p>Facing Point-to-Point Diamonds (centers have right hands)</p>	<p>115.</p> <p>Right-Hand End-to-End Single 1/4 Tags Right-Hand End-to-End Single Quarter Tags</p>	<p>116.</p> <p>Right-Hand End-to-End Single 3/4 Tags Right-Hand End-to-End Single Three-Quarter Tags</p>
<p>117.</p> <p>Right-Hand (Side-by-Side) Z's (centers are leaders)</p>	<p>118.</p> <p>Right-Hand (Side-by-Side) Z's (centers are trailers)</p>	<p>119.</p> <p>Right-Hand (End-to-End) Z's (centers are leaders)</p>	<p>120.</p> <p>Right-Hand (End-to-End) Z's (centers are trailers)</p>
<p>121.</p> <p>Dixie Grand Circle [typical]</p>	<p>122.</p> <p>Right-Hand 1/4 Box Right-Hand Quarter Box [see pictogram 429]</p>	<p>123.</p> <p>General Crossed Lines (aligned to walls) [see pictograms 33 and 416]</p>	<p>124.</p> <p>[see pictogram 462] 3 Right-Hand Mini-Waves and 2 Lonesome Dancers 1/2 Coordinate [see also pictogram 220]</p>

Formations Commonly Used at Advanced

201.  3-and-1 Line (ends facing same way, centers have right hands) Three-and-One Line	202.  3-and-1 Line (centers facing same way, ends are beaus) Three-and-One Line	203.  Inverted Line	204.  Inverted Box	205.  Split Square Thru Box
206.  (Parallel) 3-and-1 Lines (ends facing in, centers have right hands) (Parallel) Three-and-One Lines	207.  (Parallel) 3-and-1 Lines (ends facing out, centers have right hands) (Parallel) Three-and-One Lines	208.  (Parallel) 3-and-1 Lines (centers facing in, ends are beaus) (Parallel) Three-and-One Lines	209.  (Parallel) 3-and-1 Lines (centers facing out, ends are beaus) (Parallel) Three-and-One Lines	
210.  (Parallel) Inverted Lines (ends facing in)	211.  (Parallel) Inverted Lines (ends facing out)	212.  Tidal 3-and-1 Line [typical] Tidal Three-and-One Line [8 symmetric possible]	213.  Tidal Inverted Line [typical] [2 symmetric possible]	
214.  Right-Hand As Couples Wave [see pictogram 49]	215.  Right-Hand As Couples Two-Faced Line [see pictogram 50]	216.  General Tidal Column / Column of 8 [16 symmetric possible]		
217.  Right-Hand Hourglass	218.  Facing Hourglass (very centers have right hands)	219.  General Hourglass [see pictograms 451 and 217]		
220.  [see pictogram 462] Right-Hand Columns of 3 and 2 Lonesome Dancers 1/2 In Roll Circulate (from lines, all ends are beaus) [see also pictogram 124]	221.  [see pictogram 463] Columns of 3 and 2 Lonesome Dancers 1/4 Chain Reaction (from Right-Hand 1/4 Tag) [see also pictogram 457]	222.  Right-Hand Star and Two Mini-Waves 1/2 Chain Reaction [see pictogram 477]		

Formations Commonly Used at Challenge (C-1)

301. <div><div><div></div><div></div></div></div> <div>1x2 / One-by-Two / Pair</div>	302. <div><div><div></div><div></div><div></div></div></div> <div>1x3 / One-by-Three</div>	303. <div><div><div></div><div></div><div></div><div></div></div></div> <div>1x4 / One-by-Four</div>	304. <div><div><div></div><div></div><div></div><div></div><div></div><div></div></div></div> <div>1x6 / One-by-Six</div>	
305. <div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div>2x2 / Two-by-Two</div>	306. <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div>2x3 / Two-by-Three</div>	307. <div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div> <div>2x4 / Two-by-Four</div>	308. <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div> <div>1x8 / One-by-Eight</div>	
309. <div><div><div></div><div></div><div></div></div></div> <div>Triangle Spots</div>	310. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Diamond Spots</div>	311. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Z Spots [typical]</div>	312. <div><div><div></div><div></div><div></div><div></div><div></div><div></div></div></div> <div>(Twin) Diamond Spots</div>	313. <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div> <div>Point-to-Point Diamond Spots</div>
314. <div><div><div></div><div></div></div></div> <div>General Couple General Line of 2</div>	315. <div><div><div></div><div></div></div></div> <div>General Tandem General Column of 2</div>	316. <div><div><div></div><div></div></div></div> <div>T-Bone Pair [typical] (right shoulder to front)</div>	317. <div><div><div></div><div></div></div></div> <div>T-Bone Pair [typical] (right shoulder to back)</div>	
318. <div><div><div></div><div></div><div></div></div></div> <div>Line of 3</div>	319. <div><div><div></div><div></div><div></div></div></div> <div>Wave of 3</div>	320. <div><div><div></div><div></div><div></div></div></div> <div>General Line of 3 [4 possible]</div>	321. <div><div><div></div><div></div><div></div></div></div> <div>General Column of 3 [4 possible]</div>	
322. <div><div><div></div><div></div><div></div></div></div> <div>Right-Hand (Wave-Based) Triangle</div>	323. <div><div><div></div><div></div><div></div></div></div> <div>Right-Hand (Tandem-Based) Triangle</div>			
324. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Out T-Bone Box [typical]</div>	325. <div><div><div></div><div></div><div></div><div></div></div></div> <div>In T-Bone Box [typical]</div>	326. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Both T-Bone Box [typical]</div>	327. <div><div><div></div><div></div><div></div><div></div></div></div> <div>T-Bone Walk and Dodge Box [typical] (all dancers are beaus)</div>	
328. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Star Spots</div>	329. <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>Facing Star</div>	330. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Y Spots / Siamese Pair Spots</div>	331. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Siamese Couple [typical]</div>	
332. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Siamese Mini-Wave [typical]</div>	333. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Siamese Facing Dancers</div>	334. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Siamese Back-to-Back Dancers</div>	335. <div><div><div></div><div></div><div></div><div></div></div></div> <div>Siamese Tandem [typical]</div>	

Formations Commonly Used at Challenge (C-1)

<p>341.</p> <p><u>Facing Lines of 3</u> <u>Lines of 3 Facing In</u></p>	<p>342.</p> <p><u>Lines of 3 Facing Out</u> <u>Back-to-Back Lines of 3</u></p>	<p>343.</p> <p>(Parallel) Waves of 3 (ends facing in)</p>	<p>344.</p> <p>(Parallel) Waves of 3 (ends facing out)</p>
<p>345.</p> <p>(Parallel) 2-and-1 Lines (of 3) [typical] <u>(Parallel) Two-and-One</u> <u>Lines (of 3) [typical]</u></p>	<p>346.</p> <p>General (Parallel) Lines of 3 [8 symmetric possible]</p>	<p>347.</p> <p>General (Parallel) Columns of 3 [8 symmetric possible]</p>	<p>348.</p> <p><u>Right-Hand Columns of 3</u> <u>Right-Hand Column of 6</u></p>
<p>349.</p> <p>(Parallel) 2-and-1 Columns (of 3) [typical] <u>(Parallel) Two-and-One</u> <u>Columns (of 3) [typical]</u></p>	<p>350.</p> <p>(Parallel) 2-and-1 Columns (of 3) [typical] <u>(Parallel) Two-and-One</u> <u>Columns (of 3) [typical]</u></p>	<p>351.</p> <p><u>Magic Columns of 3</u> <u>(ends have right hands)</u> <u>Magic Column of 6</u> <u>(ends have right hands)</u></p>	
<p>352.</p> <p>Right-Hand (Wave-Based) Triangles (Base-to-Base) <u>Right-Hand Sausage of 6</u></p>	<p>353.</p> <p>Right-Hand (Tandem-Based) Triangles (Base-to-Base)</p>	<p>354.</p> <p>Right-Hand (Wave-Based) Triangles (Apex-to-Apex)</p>	<p>355.</p> <p>Right-Hand (Tandem-Based) Triangles (Apex-to-Apex)</p>
<p>356.</p> <p>Inpoint Triangles [typical]</p>	<p>357.</p> <p>Outpoint Triangles [typical]</p>	<p>358.</p> <p>Inside Triangles</p>	<p>359.</p> <p>Inside Triangles</p>
<p>360.</p> <p>Outside Triangles</p>	<p>361.</p> <p>Outside Triangles</p>	<p>362.</p> <p>Outside Triangles</p>	<p>363.</p> <p>Outside Triangles</p>

Formations Commonly Used at Challenge (C-1)

<p>371.</p> <p><u>Butterfly Spots</u> <u>X Spots</u></p>	<p>372.</p> <p><u>O Spots</u> [see pictogram 24]</p>	<p>373.</p> <p><u>Blocks Spots</u> [see pictogram 547]</p>	<p>374.</p> <p><u>Phantom Spots [typical]</u> [see pictogram 567]</p>
<p>375.</p> <p><u>General Butterfly</u> [16 symmetric possible]</p>	<p>376.</p> <p><u>General O (formation)</u> [16 symmetric possible]</p>	<p>377.</p> <p><u>Blocks [typical]</u></p>	<p>378.</p> <p><u>Phantoms [typical]</u> [as if in Waves]</p>
<p>379.</p> <p><u>Phantoms [typical]</u> [as if in Lines]</p>	<p>380.</p> <p><u>Phantoms [typical]</u> [as if in Columns]</p>	<p>381.</p> <p><u>Phantoms [typical]</u> <u>Siamese Right-Hand Box</u></p>	<p>382.</p> <p><u>Phantoms [typical]</u> <u>Siamese Facing Couples</u></p>
<p>383.</p> <p><u>2x6</u> <u>Two-by-Six</u> <u>Triple Box Spots</u></p>	<p>384.</p> <p><u>3x4</u> <u>Three-by-Four</u> <u>(Parallel) Triple Line Spots</u> <u>(Parallel) Triple Column Spots</u></p>	<p>385.</p> <p><u>1x12</u> <u>One-by-Twelve</u> <u>Triple Line Spots, End-to-End</u> <u>Triple Column Spots, End-to-End</u></p>	
<p>386.</p> <p><u>Triple Boxes [typical]</u> [see pictograms 119 and 120]</p>	<p>387.</p> <p><u>(Parallel) Triple Waves</u> [typical] [see pictograms 117 and 118]</p>	<p>388.</p> <p><u>(Parallel) Triple Lines</u> [typical]</p>	<p>389.</p> <p><u>Triple Columns [typical]</u></p>
<p>390.</p> <p><u>Triple Lines, End-to-End [typical]</u></p>	<p>391.</p> <p><u>Triple Columns, End-to-End [typical]</u></p>		

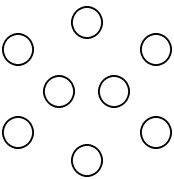
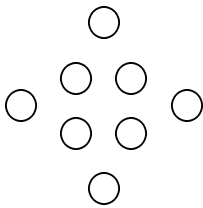
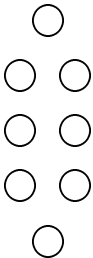
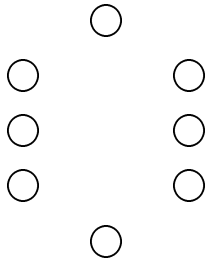
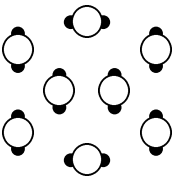
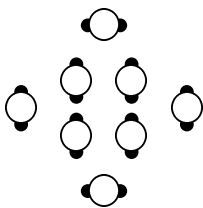
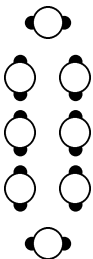
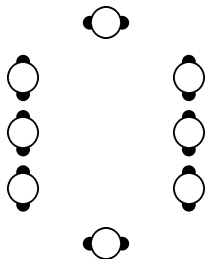
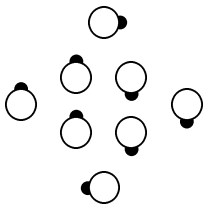
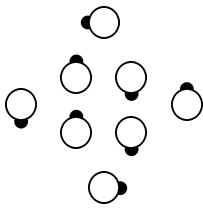
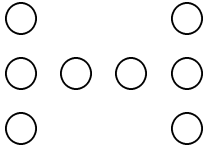
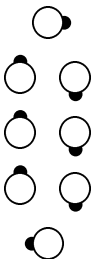
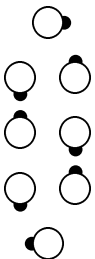
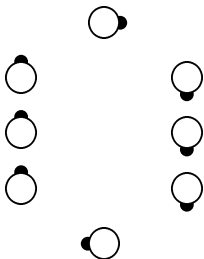
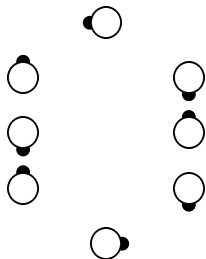
Formations Commonly Used at Challenge (C-1)

401. <p>Right-Hand Interlocked Diamonds</p> <hr/> <p>Right-Hand Siamese Diamond (tandems are points)</p>	402. <p>Facing Interlocked Diamonds (very centers have right hands)</p> <hr/> <p>Siamese Facing Diamond (center couples have right hands)</p>	403. <p>Right-Hand Interlocked Point-to-Point Diamonds</p>	404. <p>Interlocked Facing Point-to-Point Diamonds (centers of each diamond have right hands)</p>	
405. <p>Right-Hand Siamese Diamond (tandems are centers) [see pictogram 611]</p>	406. <p>Facing Siamese Diamond (center tandems have right hands)</p> <hr/> <p>Siamese Facing Diamond</p>	407. <p>Box and Two Mini-Waves [typical] [see pictogram 610] 1/3 Linear Action</p>	408. <p>Right-Hand Tandem Diamond</p>	409. <p>Facing Tandem Diamond (centers have right hands)</p> <hr/> <p>Tandem Facing Diamond</p>
410. <p>Line and Two Pairs Spots Concentric Diamond Spots 1/3 Tally Ho Spots 2/3 Percolate Spots</p>	411. <p>General Line and Two Pairs General Concentric Diamonds General 1/3 Tally Ho General 2/3 Percolate</p>	412. <p>Right-Hand Wave and Two Right-Hand Mini-Waves Concentric Diamonds</p>	413. <p>Right-Hand Wave and Two Left-Hand Mini-Waves Concentric Diamonds</p>	
414. <p>Wave and Two Couples [typical] Concentric Diamonds</p>	415. <p>Two-Faced Line and Two Couples [typical] Concentric (Right-Hand) Diamonds Right-Hand As Couples Diamond</p>	416. <p>Thar Spots (aligned to walls) [see pictograms 33 and 123] [compare pictogram 410]</p>		

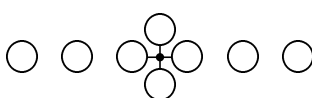
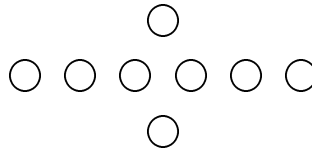
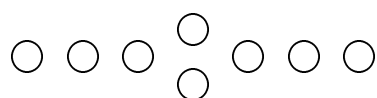
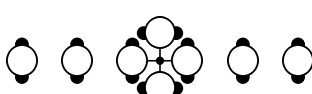
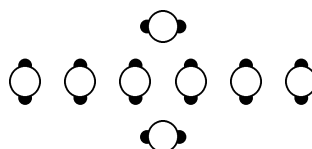
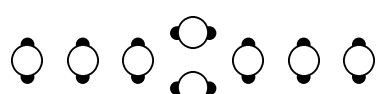
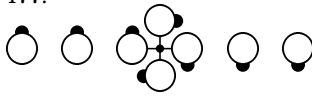
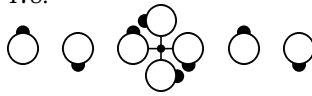
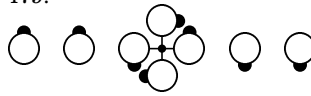
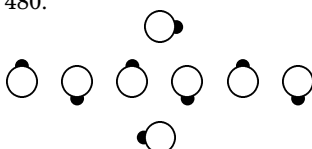
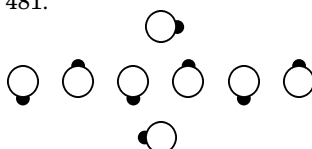
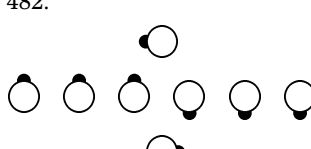
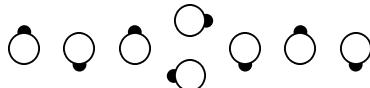
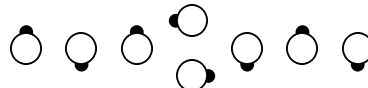
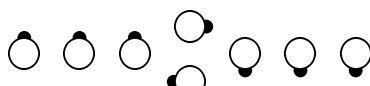
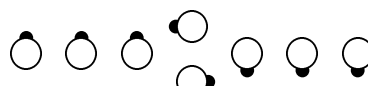
Formations Commonly Used at Challenge (C-1)

<p>421.</p> <p><u>1/4 Tag Spots</u> <u>Quarter Tag Spots</u> <u>Line between Pairs Spots</u> <u>2-4-2 Spots</u> <u>Two-Four-Two Spots</u> [see pictograms 387, 388, and 389]</p>	<p>422.</p> <p><u>General Line between Pairs</u> <u>General 2-4-2</u> <u>General Two-Four-Two</u></p>	<p>423.</p> <p><u>General 1/4 Tag</u> <u>General Quarter Tag</u> [4 symmetric possible]</p>	<p>424.</p> <p><u>General 3/4 Tag</u> <u>General Three-Quarter Tag</u> [4 symmetric possible]</p>
<p>425.</p> <p><u>Right-Hand 1/4 Line</u> <u>Right-Hand Quarter Line</u></p>	<p>426.</p> <p><u>Right-Hand 3/4 Line</u> <u>Right-Hand</u> <u>Three-Quarter Line</u></p>	<p>427.</p> <p><u>Right-Hand Wave between</u> <u>Right-Hand Mini-Waves</u></p>	<p>428.</p> <p><u>Right-Hand Two-Faced Line</u> <u>between</u> <u>Right-Hand Mini-Waves</u></p>
<p>429.</p> <p><u>Right-Hand 1/4 Box</u> <u>Right-Hand Quarter Box</u> [see pictogram 122]</p>	<p>430.</p> <p><u>Right-Hand 3/4 Box</u> <u>Right-Hand</u> <u>Three-Quarter Box</u></p>	<p>431.</p> <p><u>Magic Columns</u> <u>(ends have right hands)</u> <u>Magic Column</u> <u>(ends have right hands)</u></p>	
<p>432.</p> <p><u>1/4 Diamond Spots</u> <u>Quarter Diamond Spots</u> <u>Diamond between Pairs Spots</u> [contrast pictogram 451]</p>	<p>433.</p> <p><u>General Diamond between Pairs</u> [contrast pictogram 219]</p>	<p>434.</p> <p><u>Right-Hand 1/4 Diamond</u> <u>Right-Hand Quarter Diamond</u></p>	<p>435.</p> <p><u>Right-Hand 3/4 Diamond</u> <u>Right-Hand</u> <u>Three-Quarter Diamond</u></p>
<p>436.</p> <p><u>I spots</u> <u>Dogbone spots</u></p>	<p>437.</p> <p><u>I (formation) [typical]</u></p>	<p>438.</p> <p><u>Dogbone [typical]</u></p>	<p>439.</p> <p><u>Dogbone [typical]</u> <u>Right-Hand Siamese Wave</u> (tandems are ends)</p>

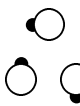
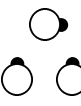
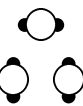
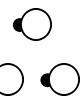
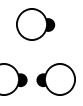
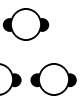
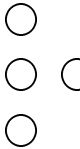


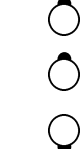
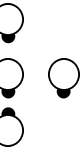

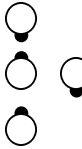






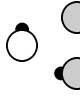
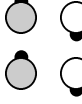
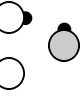
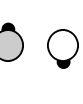
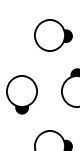
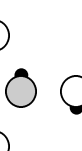

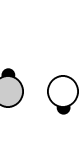
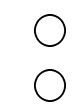

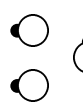
Formations Commonly Used at Challenge (C-1)

<p>451.</p>  <p>Hourglass Spots [see pictogram 217] [contrast pictogram 432]</p>	<p>452.</p>  <p>Galaxy Spots</p>	<p>453.</p>  <p>Sausage Spots [see pictograms 462 and 463]</p>	<p>454.</p>  <p>Egg Spots</p>
<p>455.</p>  <p>General Hourglass [see pictogram 219] [contrast pictogram 433]</p>	<p>456.</p>  <p>General Galaxy</p>	<p>457.</p>  <p>General Sausage [see pictograms 462 and 463]</p>	<p>458.</p>  <p>General Egg</p>
<p>459.</p>  <p>Right-Hand Galaxy</p>	<p>460.</p>  <p>Facing Galaxy (centers have right hands)</p>	<p>461.</p>  <p>H Spots [see pictograms 387, 388, and 389]</p>	
<p>462.</p>  <p>Right-Hand Sausage [see pictograms 124 and 220]</p>	<p>463.</p>  <p>Facing Sausage (very centers have right hands)</p>	<p>464.</p>  <p>Right-Hand Egg</p>	<p>465.</p>  <p>Facing Egg [typical]</p>

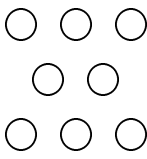
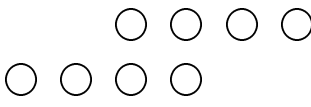
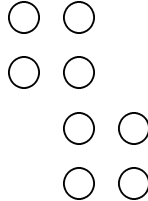
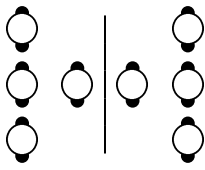
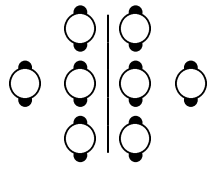
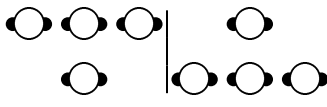
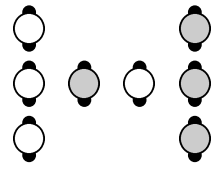
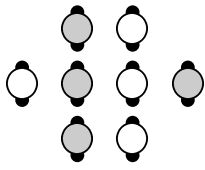
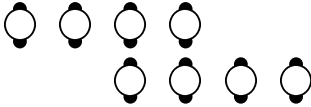
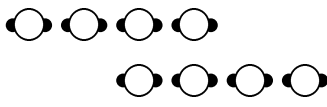
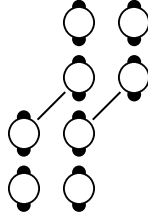
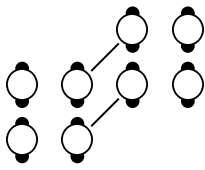
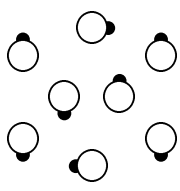
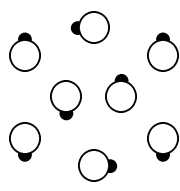
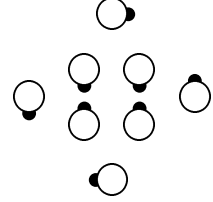
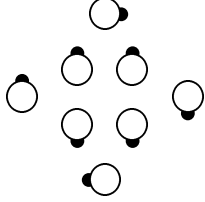
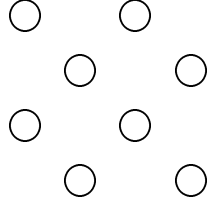
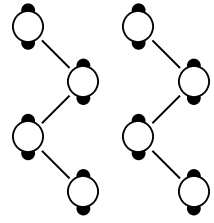
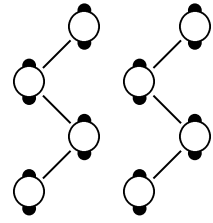
Formations Commonly Used at Challenge (C-1)

<div>471.</div> <div></div> <div><div>Star and Two Pairs Spots</div><div>1/2 Chain Reaction Spots</div></div>	<div>472.</div> <div></div> <div><div>Diamond and Two Pairs Spots</div><div>Line of 6 and 2 Lonesome Dancers Spots</div><div>1/2 Acey Deucey from Waves Spots</div><div>2/3 Linear Action from 1/4 Tag Spots</div></div>	<div>473.</div> <div></div> <div><div>Point-to-Point Diamond and Two Pairs Spots</div><div>2/3 Tally Ho from Facing Lines Spots</div><div>1/2 Coordinate from 3-and-1 Lines Spots</div><div>2/3 Linear Action from I Spots</div></div>	
<div>474.</div> <div></div> <div><div>General Star and Two Pairs</div><div>General 1/2 Chain Reaction</div></div>	<div>475.</div> <div></div> <div><div>General Diamond and Two Pairs</div><div>General Line of 6 and 2 Lonesome Dancers</div><div>General 1/2 Acey Deucey from Waves</div><div>General 2/3 Linear Action from a 1/4 Tag</div></div>	<div>476.</div> <div></div> <div><div>General Point-to-Point Diamond and Two Pairs</div><div>General 2/3 Tally Ho from Facing Lines</div><div>General 1/2 Coordinate from 3-and-1 Lines</div><div>General 2/3 Linear Action from an I</div></div>	
<div>477.</div> <div></div> <div><div>Right-Hand Star</div><div>and Two Couples [typical]</div><div>[see pictogram 222]</div></div>	<div>478.</div> <div></div> <div><div>Facing Star</div><div>and Two Mini-Waves [typical]</div></div>	<div>479.</div> <div></div> <div><div>Facing Star</div><div>and Two Couples [typical]</div></div>	
<div>480.</div> <div></div> <div><div>Right-Hand Diamond</div><div>and Two Mini-Waves</div><div>Right-Hand Wave of 6</div><div>and 2 Lonesome Dancers</div><div>[see pictogram 620]</div></div>	<div>481.</div> <div></div> <div><div>Facing Diamond</div><div>and Two Mini-Waves [typical]</div><div>Line of 6</div><div>and 2 Lonesome Dancers</div></div>	<div>482.</div> <div></div> <div><div>Diamond</div><div>and Two Couples [typical]</div><div>Two-Faced Line of 6</div><div>and 2 Lonesome Dancers</div></div>	
<div>483.</div> <div></div> <div><div>Right-Hand Point-to-Point Diamond</div><div>and Two Mini-Waves [typical]</div></div>	<div>484.</div> <div></div> <div><div>Facing Point-to-Point Diamond and Two Mini-Waves [typical]</div></div>		
<div>485.</div> <div></div> <div><div>Right-Hand Point-to-Point Diamond</div><div>and Two Couples [typical]</div></div>	<div>486.</div> <div></div> <div><div>Facing Point-to-Point Diamond and Two Couples [typical]</div></div>		

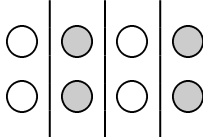

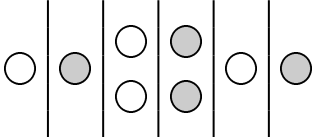
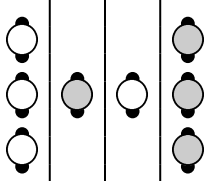
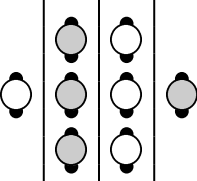
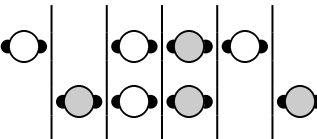
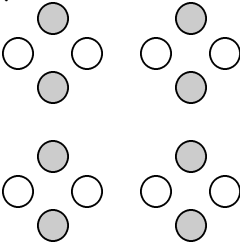
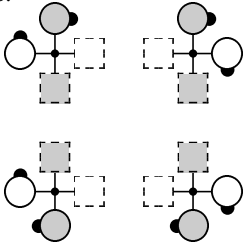
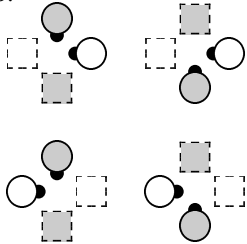
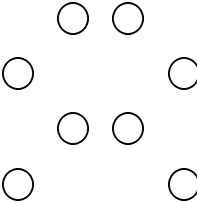
Formations Commonly Used at Challenge (C-2)

501.  Funny (Wave-Based) Triangle [typical]	502.  Funny (Wave-Based) Triangle [typical]	503.  General Wave-Based Triangle	504.  Funny (Tandem-Based) Triangle [typical]	505.  Funny (Tandem-Based) Triangle [typical]	506.  General Tandem-Based Triangle
507.  3x1 Triangle Spots	508.  Right-Hand 3x1 Triangle	509.  Facing 3x1 Triangle [typical]	510.  Funny 3x1 Triangle (2 facing 2) [typical]		511.  Funny 3x1 Triangle (2 facing 2) [typical]
512.  Funny 3x1 Triangle (3 facing 1) [typical]		513.  Funny 3x1 Triangle (3 facing 1) [typical]		514.  Funny 3x1 Triangle (3 facing 1) [typical]	
515.  Funny 3x1 Triangle (3 facing 1) [typical]					
516.  Funny Diamond (2 facing 2) [typical]		517.  Funny Diamond (2 facing 2) [typical]		518.  Funny Diamond (3 facing 1) [typical]	
519.  Funny Diamond (3 facing 1) [typical]					
520.  Right-Hand Interlocked (Wave-Based) Triangles (Base-to-Base)		521.  Right-Hand Interlocked (Tandem-Based) Triangles (Base-to-Base)		522.  Right-Hand Interlocked (Wave-Based) Triangles (Apex-to-Apex)	
523.  Right-Hand Interlocked (Tandem-Based) Triangles (Apex-to-Apex)					
524.  Funny (Twin) Diamonds [typical]		525.  Funny Interlocked (Twin) Diamonds [typical]		526.  Funny Point-to-Point Diamonds [typical] [see pictogram 403]	
527.  Funny Interlocked Point-to-Point Diamonds [typical] [see pictogram 114]					
528.  <u>2-1-2-1-2 Spots</u> <u>Two-One-Two-One-Two Spots</u> <u>1/4 Point-to-Point Diamond Spots</u> Quarter Point-to-Point Diamond Spots			529.  <u>Right-Hand 1/4 Point-to-Point Diamond</u> Right-Hand Quarter Point-to-Point Diamond		
530.  <u>Right-Hand 3/4 Point-to-Point Diamond</u> Right-Hand Three-Quarter Point-to-Point Diamond					

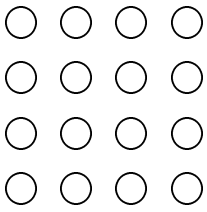
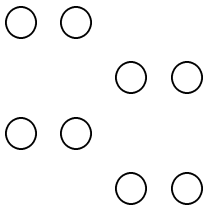
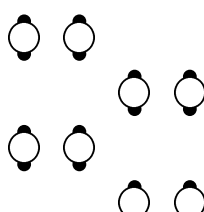
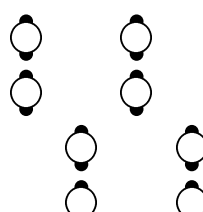
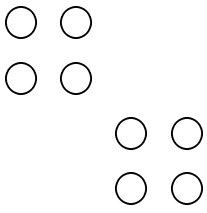
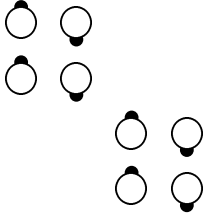
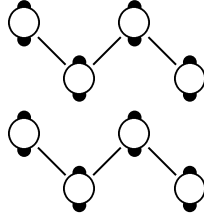
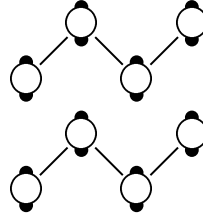
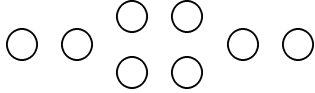
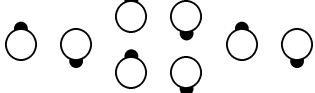
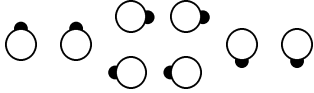
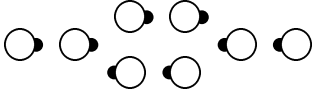
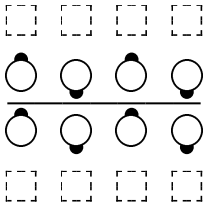
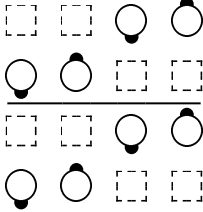
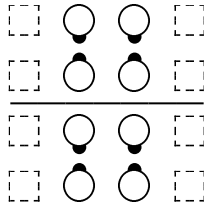
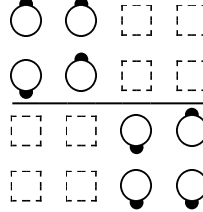
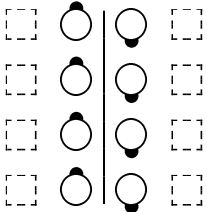
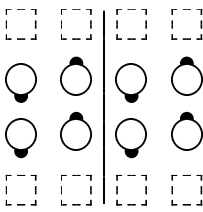
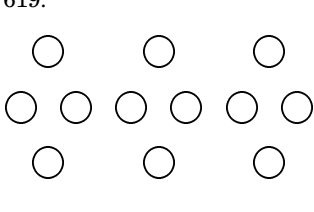
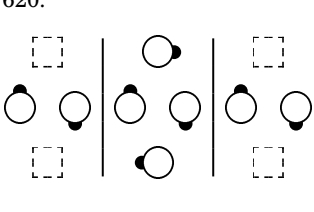
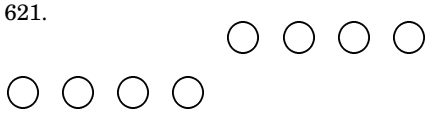
Formations Commonly Used at Challenge (C-2)

<p>531.</p>  <p style="text-align: center;">3-2-3 Spots Three-Two-Three Spots</p>	<p>532.</p>  <p style="text-align: center;">Parallelogram Spots (50% offset) [typical]</p>	<p>533.</p>  <p style="text-align: center;">Offset Columns Spots (50% offset) [typical] Offset Lines Spots [typical]</p>	<p>534.</p>  <p style="text-align: center;">General 3x1 Triangles (on H Spots)</p>
<p>535.</p>  <p style="text-align: center;">General 3x1 Triangles (on 1/4 Tag Spots)</p>	<p>536.</p>  <p style="text-align: center;">General 3x1 Triangles (within a 2x6) [typical]</p>	<p>537.</p>  <p style="text-align: center;">General Interlocked 3x1 Triangles (on H Spots) [see pictogram 564]</p>	<p>538.</p>  <p style="text-align: center;">General Interlocked 3x1 Triangles (on 1/4 Tag Spots) [see pictogram 565]</p>
<p>539.</p>  <p style="text-align: center;">General Parallelogram (Lines) [typical]</p>	<p>540.</p>  <p style="text-align: center;">General Parallelogram Columns [typical]</p>	<p>541.</p>  <p style="text-align: center;">General Offset Columns [typical]</p>	<p>542.</p>  <p style="text-align: center;">General Offset Lines [typical]</p>
<p>543.</p>  <p style="text-align: center;">Funny Hourglass (2 facing 2) [typical]</p>	<p>544.</p>  <p style="text-align: center;">Funny Hourglass (3 facing 1) [typical]</p>	<p>545.</p>  <p style="text-align: center;">Funny Galaxy (2 facing 2) [typical]</p>	<p>546.</p>  <p style="text-align: center;">Funny Galaxy (3 facing 1) [typical]</p>
<p>547.</p>  <p style="text-align: center;">Stagger Spots [see pictogram 373]</p>	<p>548.</p>  <p style="text-align: center;">General Stagger (formation) [typical] [see pictogram 607]</p>	<p>549.</p>  <p style="text-align: center;">General Stagger (formation) [typical] [see pictogram 608]</p>	

Formations Commonly Used at Challenge (C-2)

561.  Once Removed Boxes	562.  <u>Once Removed Lines</u> <u>Once Removed Waves</u> Once Removed Columns	563.  Once Removed Diamonds [see pictogram 609]	
564.  General Once Removed 3x1 Triangles (on H Spots) [see pictogram 537]	565.  General Once Removed 3x1 Triangles (on 1/4 Tag Spots) [see pictogram 538]	566.  General Once Removed 3x1 Triangles (within a 2x6) [typical]	
567.  General Phantom Spots [see pictogram 374]	568.  General Phantom Formation [as if in lines, typical]	569.  General Phantom Formation [as if in columns, typical]	570.  Ox Spots [asymmetric]

Formations Commonly Used at Challenge (C-3A)









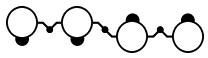
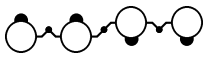
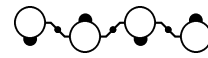
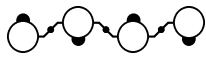



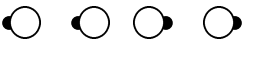
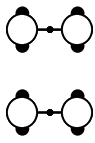

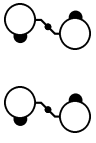
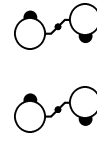
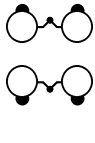
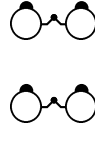
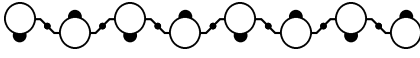
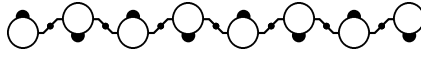

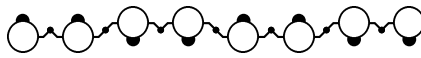
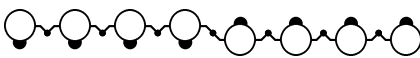

<p>601.</p>  <p style="text-align: center;">4x4 Four-by-Four</p>	<p>602.</p>  <p style="text-align: center;">Stairstep Spots [typical] Ladder Spots [typical]</p>	<p>603.</p>  <p style="text-align: center;">General Stairstep [typical]</p>	<p>604.</p>  <p style="text-align: center;">General Ladder [typical]</p>
<p>605.</p>  <p style="text-align: center;">Clump Spots Fully Offset Lines Spots Fully Offset Columns Spots 100% Offset Lines Spots 100% Offset Columns Spots</p>	<p>606.</p>  <p style="text-align: center;">Clumps [typical] Fully Offset Waves [typical] Fully Offset Columns [typical] 100% Offset Waves [typical] 100% Offset Columns [typical]</p>	<p>607.</p>  <p style="text-align: center;">General Big Block (formation) [typical] [see pictogram 548]</p>	<p>608.</p>  <p style="text-align: center;">General Big Block (formation) [typical] [see pictogram 549]</p>
<p>609.</p>  <p style="text-align: center;">Rigger Spots Bat Spots [see pictogram 563]</p>	<p>610.</p>  <p style="text-align: center;">Rigger [typical] Bat [typical] [see pictogram 407]</p>	<p>611.</p>  <p style="text-align: center;">Rigger [typical] Bat [typical] Box and Two Couples [see pictogram 405]</p>	<p>612.</p>  <p style="text-align: center;">Rigger [typical] Bat [typical] Box and Two Tandems Tandem Single 1/4 Tag</p>
<p>613.</p>  <p style="text-align: center;">Split Phantom Waves [typical]</p>	<p>614.</p>  <p style="text-align: center;">Split Phantom Waves [typical]</p>	<p>615.</p>  <p style="text-align: center;">Split Phantom Lines [typical]</p>	<p>616.</p>  <p style="text-align: center;">Split Phantom Lines [typical]</p>
<p>617.</p>  <p style="text-align: center;">Split Phantom Columns [typical]</p>	<p>618.</p>  <p style="text-align: center;">Split Phantom Columns [typical]</p>	<p>619.</p>  <p style="text-align: center;">Triple Diamond Spots</p>	<p>620.</p>  <p style="text-align: center;">Triple Diamonds [typical] [see pictogram 480]</p>
<p>621.</p>  <p style="text-align: center;">Fully Offset Parallelogram Spots [typical] 100% Offset Parallelogram Spots</p>			

Appendix

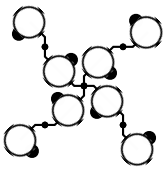
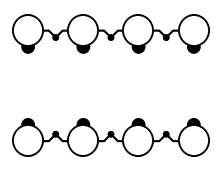
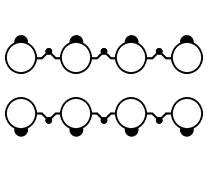
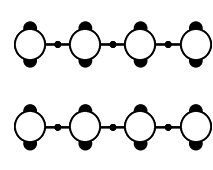
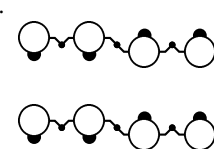
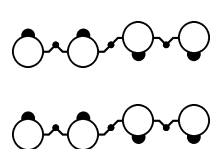
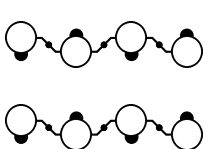
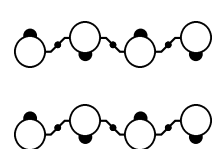
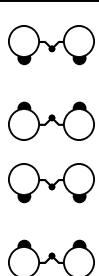

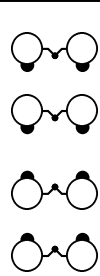
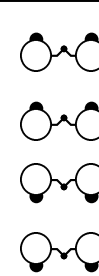
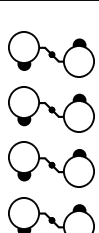

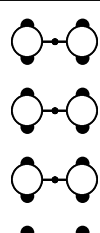
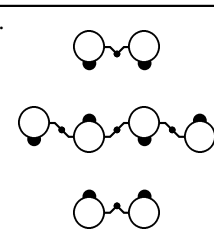
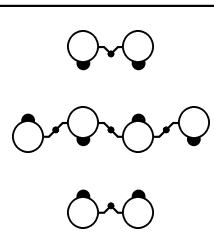
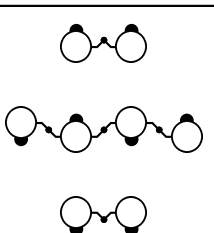
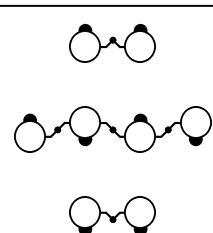
Handholds, Wave Adjustment, Breathing, and Handedness

This Appendix presents, for selected formations, pictograms that show dancer handholds and the dancer positioning that might result from the wave adjustment and breathing. For many of these formations, pictograms for both right-handed and left-handed forms are presented.

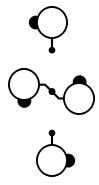
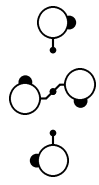
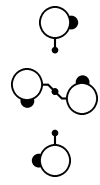
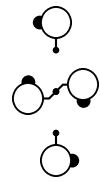
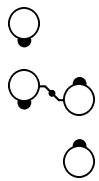
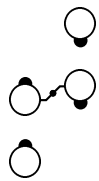

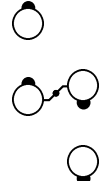
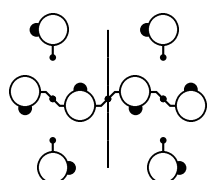
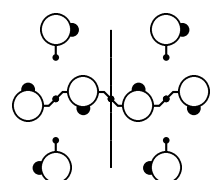
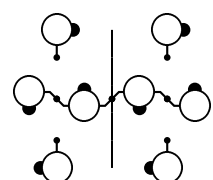
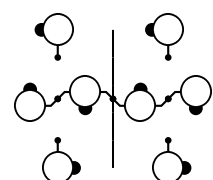
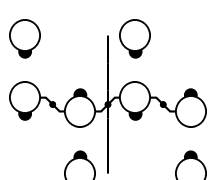
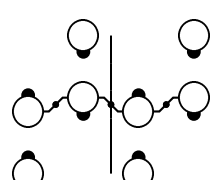
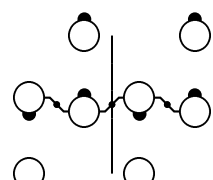
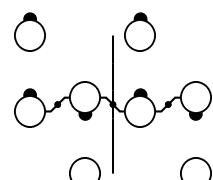
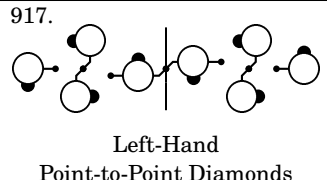
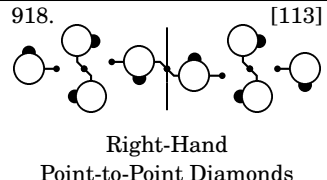
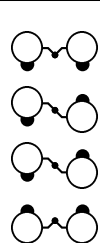
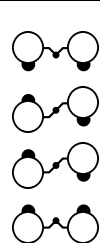
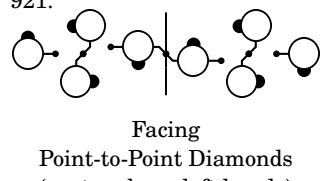
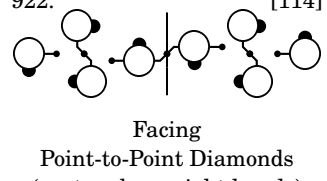
Selected Formations Commonly Used at Basic, Mainstream, and SSD

801. <div></div> <div>Couple</div> <div>[1]</div>	802. <div></div> <div>Left-Hand Mini-Wave</div> <div>[7]</div>	803. <div></div> <div>Right-Hand Mini-Wave</div> <div>[2]</div>	804. <div></div> <div><u>Facing Dancers</u> Circle of 2</div> <div>[3]</div>	805. <div></div> <div>Back-to-Back Dancers</div> <div>[4]</div>	806. <div></div> <div>Tandem</div> <div>[5]</div>
807. <div></div> <div><u>General Line</u> Line of 4</div> <div>[7]</div>		808. <div></div> <div><u>Line</u> One-Faced Line</div> <div>[8]</div>			
809. <div></div> <div>Left-Hand Two-Faced Line</div>	810. <div></div> <div>Right-Hand Two-Faced Line</div> <div>[9]</div>	811. <div></div> <div><u>Left-Hand Ocean Wave</u> Left-Hand Wave</div>	812. <div></div> <div><u>Right-Hand Ocean Wave</u> Right-Hand Wave</div> <div>[10]</div>		
813. <div></div> <div><u>General Column</u> Column of 4</div> <div>[11]</div>	814. <div></div> <div>Single Eight Chain Thru</div> <div>[12]</div>	815. <div></div> <div><u>Single Double Pass Thru</u> (formation) <u>Facing Tandems</u> Single Zero Tag</div> <div>[13]</div>	816. <div></div> <div><u>Single Completed</u> <u>Double Pass Thru</u> <u>Back-to-Back Tandems</u> Single Full Tag</div> <div>[14]</div>		
817. <div></div> <div>Box / General Box / Box of 4</div> <div>[15]</div>	818. <div></div> <div>Facing Couples</div> <div>[16]</div>	819. <div></div> <div><u>Left-Hand Box</u> <u>Left-Hand Box Circulate</u> (formation) <u>Left-Hand Single 1/2 Tag</u> Left-Hand Single Half Tag</div> <div>[17]</div>	820. <div></div> <div><u>Right-Hand Box</u> <u>Right-Hand Box Circulate</u> (formation) <u>Right-Hand Single 1/2 Tag</u> Right-Hand Single Half Tag</div> <div>[19]</div>		
821. <div></div> <div>Back-to-Back Couples</div> <div>[17]</div>	822. <div></div> <div>Tandem Couples</div> <div>[18]</div>				
823. <div></div> <div>Left-Hand Tidal Wave</div>			824. <div></div> <div>Right-Hand Tidal Wave</div> <div>[48]</div>		
825. <div></div> <div>Left-Hand Tidal Two-Faced Line</div>			826. <div></div> <div>Right-Hand Tidal Two-Faced Line</div> <div>[49]</div>		
827. <div></div> <div>Left-Hand Tidal (One-Faced) Line</div>			828. <div></div> <div>Right-Hand Tidal (One-Faced) Line</div> <div>[50]</div>		

Selected Formations Commonly Used at Basic, Mainstream, and SSD

831. [33]  <u>Thar Star</u> <u>Thar</u>	832. [35]  <u>Facing Lines</u> <u>Lines Facing In</u>	833. [36]  <u>Lines Facing Out</u> <u>Back-to-Back Lines</u>	834. [39]  <u>General (Parallel) Lines</u> <u>[16 symmetric possible]</u> <u>Some Kind of Lines</u>
835.  <u>Left-Hand (Parallel)</u> <u>Two-Faced Lines</u>	836. [37]  <u>Right-Hand (Parallel)</u> <u>Two-Faced Lines</u>	837.  <u>Left-Hand (Parallel)</u> <u>Ocean Waves</u> <u>Left-Hand (Parallel) Waves</u> <u>Left-Hand 1/2 Tag (formation)</u> <u>Left-Hand Half Tag (formation)</u>	838. [38]  <u>Right-Hand (Parallel)</u> <u>Ocean Waves</u> <u>Right-Hand (Parallel) Waves</u> <u>Right-Hand 1/2 Tag (formation)</u> <u>Right-Hand Half Tag (formation)</u>
839. [40]  <u>Eight Chain Thru (formation)</u>	840. [41]  <u>Trade By (formation)</u>	841. [42]  <u>Double Pass Thru (formation)</u> <u>Starting Double Pass Thru</u> <u>Beginning Double Pass Thru</u> <u>Zero Tag</u>	842. [43]  <u>Completed Double Pass Thru</u> <u>Full Tag</u>
843.  <u>Left-Hand Columns</u> <u>Left-Hand Column</u>	844. [44]  <u>Right-Hand Columns</u> <u>Right-Hand Column</u>	845. [45]  <u>General (Parallel) Columns</u> <u>[16 symmetric possible]</u>	
846.  <u>Left-Hand 1/4 Tag</u> <u>Left-Hand Quarter Tag</u>	847. [46]  <u>Right-Hand 1/4 Tag</u> <u>Right-Hand Quarter Tag</u>	848.  <u>Left-Hand 3/4 Tag</u> <u>Left-Hand Three-Quarter Tag</u>	849. [47]  <u>Right-Hand 3/4 Tag</u> <u>Right-Hand Three-Quarter Tag</u>

Selected Formations Commonly Used at Plus

901.  Left-Hand Diamond	902. [101]  Right-Hand Diamond	903.  Facing Diamond (centers have left hands)	904. [102]  Facing Diamond (centers have right hands)
905.  Left-Hand Z (centers are leaders)	906. [103]  Right-Hand Z (centers are leaders)	907.  Left-Hand Z (centers are trailers)	908. [104]  Right-Hand Z (centers are trailers)
909.  Left-Hand (Twin) Diamonds	910. [109]  Right-Hand (Twin) Diamonds	911.  Facing (Twin) Diamonds (centers have left hands)	912. [110]  Facing (Twin) Diamonds (centers have right hands)
913.  Left-Hand (Side-by-Side) Z's (centers are leaders)	914. [117]  Right-Hand (Side-by-Side) Z's (centers are leaders)	915.  Left-Hand (Side-by-Side) Z's (centers are trailers)	916. [118]  Right-Hand (Side-by-Side) Z's (centers are trailers)
917.  Left-Hand Point-to-Point Diamonds	918. [113]  Right-Hand Point-to-Point Diamonds	919.  Left-Hand 1/4 Box Left-Hand Quarter Box [see pictogram 429]	920. [122]  Right-Hand 1/4 Box Right-Hand Quarter Box [see pictogram 429]
921.  Facing Point-to-Point Diamonds (centers have left hands)	922. [114]  Facing Point-to-Point Diamonds (centers have right hands)		

Selected Formations Commonly Used at Advanced

941. 3-and-1 Line (ends facing same way, centers have left hands) Three-and-One Line	942. [201] 3-and-1 Line (ends facing same way, centers have right hands) Three-and-One Line	943. 3-and-1 Line (centers facing same way, ends are belles) Three-and-One Line	944. [202] 3-and-1 Line (centers facing same way, ends are beaux) Three-and-One Line	945. Inverted Line
946. (Parallel) 3-and-1 Lines (ends facing in, centers have left hands) (Parallel) Three-and-One Lines	947. [206] (Parallel) 3-and-1 Lines (ends facing in, centers have right hands) (Parallel) Three-and-One Lines	948. (Parallel) 3-and-1 Lines (ends facing out, centers have left hands) (Parallel) Three-and-One Lines	949. [207] (Parallel) 3-and-1 Lines (ends facing out, centers have right hands) (Parallel) Three-and-One Lines	
950. (Parallel) 3-and-1 Lines (centers facing in, ends are belles) (Parallel) Three-and-One Lines	951. [208] (Parallel) 3-and-1 Lines (centers facing in, ends are beaux) (Parallel) Three-and-One Lines	952. (Parallel) 3-and-1 Lines (centers facing out, ends are belles) (Parallel) Three-and-One Lines	953. [209] (Parallel) 3-and-1 Lines (centers facing out, ends are beaux) (Parallel) Three-and-One Lines	
954. [210] (Parallel) Inverted Lines (ends facing in)	955. [211] (Parallel) Inverted Lines (ends facing out)			
956. Left-Hand As Couples Wave [see pictogram 825]		957. [214] Right-Hand As Couples Wave [see pictogram 826]		
958. Left-Hand As Couples Two-Faced Line [see pictogram 828]		959. [215] Right-Hand As Couples Two-Faced Line [see pictogram 828]		
960. Left-Hand Hourglass	961. [217] Right-Hand Hourglass	962. [see pictogram 462] Left-Hand Columns of 3 and 2 Lonesome Dancers 1/2 In Roll Circulate (from lines, all ends are beaux) [see also pictogram 124]	963. [220] [see pictogram 462] Right-Hand Columns of 3 and 2 Lonesome Dancers 1/2 In Roll Circulate (from lines, all ends are belles) [see also pictogram 124]	
964. Facing Hourglass (very centers have left hands)	965. [218] Facing Hourglass (very centers have right hands)			

Selected Formations Commonly Used at Challenge (C-1)

971. <u>Left-Hand 1/4 Line</u> Left-Hand Quarter Line	972. [425] <u>Right-Hand 1/4 Line</u> Right-Hand Quarter Line	973. <u>Left-Hand 3/4 Line</u> Left-Hand Three-Quarter Line	974. [426] <u>Right-Hand 3/4 Line</u> Right-Hand Three-Quarter Line
975. Left-Hand Wave between Left-Hand Mini-Waves	976. [427] Right-Hand Wave between Right-Hand Mini-Waves	977. Left-Hand Two-Faced Line between Left-Hand Mini-Waves	978. [428] Right-Hand Two-Faced Line between Right-Hand Mini-Waves
979. Left-Hand Wave between Right-Hand Mini-Waves	980. Right-Hand Wave between Left-Hand Mini-Waves	981. Left-Hand Two-Faced Line between Right-Hand Mini-Waves	982. Right-Hand Two-Faced Line between Left-Hand Mini-Waves
983. <u>Magic Columns</u> (ends have left hands) <u>Magic Column</u> (ends have left hands)	984. [431] <u>Magic Columns</u> (ends have right hands) <u>Magic Column</u> (ends have right hands)	985. <u>Left-Hand 3/4 Box</u> Left-Hand Three-Quarter Box	986. [430] <u>Right-Hand 3/4 Box</u> Right-Hand Three-Quarter Box
987. Left-Hand Galaxy	988. [459] Right-Hand Galaxy	989. Facing Galaxy (centers have left hands)	990. [460] Facing Galaxy (centers have right hands)

Index

- 1/2 Acey Deucey, 475
- 1/2 Acey Deucey Spots, 472
- 1/2 Chain Reaction, 222, 474
- 1/2 Chain Reaction Spots, 471
- 1/2 Coordinate, 124, 476
- 1/2 Coordinate Spots, 473
- 1/2 In Roll Circulate, 220, 962, 963
- 1/2 Tag, 38, 837, 838
- 1/3 Linear Action, 407
- 1/3 Tally Ho, 411
- 1/3 Tally Ho Spots, 410
- 1/4 Box, 122, 429, 919, 920
- 1/4 Chain Reaction, 221
- 1/4 Diamond, 434
- 1/4 Diamond Spots, 432
- 1/4 Line, 425, 971, 972
- 1/4 Point-to-Point Diamond, 529
- 1/4 Tag, 46, 423, 846, 847
- 1/4 Tag Spots, 421
- 100% Offset Columns, 606
- 100% Offset Parallelogram Spots, 621
- 100% Offset Waves, 606
- 1x12, 385
- 1x2, 301
- 1x3, 302
- 1x4, 303
- 1x6, 304
- 1x8, 308
- 2-1-2-1-2 Spots, 528
- 2-4-2, 422
- 2-4-2 Spots, 421
- 2-and-1 Columns, 349, 350
- 2-and-1 Lines, 345
- 2/3 Linear Action, 475, 476
- 2/3 Linear Action Spots, 472, 473
- 2/3 Percolate, 411
- 2/3 Percolate Spots, 410
- 2/3 Tally Ho, 476
- 2/3 Tally Ho Spots, 473
- 2x2, 305
- 2x3, 306
- 2x4, 307
- 2x6, 383
- 3 Mini-Waves and 2 Lonesome Dancers, 124
- 3-2-3 Spots, 531
- 3-and-1 Line, 201, 202, 941–944
- 3-and-1 Lines, 206–209, 946–953
- 3/4 Box, 430, 985, 986
- 3/4 Diamond, 435
- 3/4 Line, 426, 973, 974
- 3/4 Point-to-Point Diamond, 530
- 3/4 Tag, 47, 424, 848, 849
- 3x1 Triangle, 508–515
- 3x1 Triangle Spots, 507
- 3x1 Triangles, 534–536
- 3x4, 384
- 4x4, 601
- Alamo Ring, 26
- Apex-to-Apex Interlocked Triangles, 522, 523
- Apex-to-Apex Triangles, 354, 355
- As Couples Diamond, 415
- As Couples Two-Faced Line, 215, 958, 959
- As Couples Wave, 214, 956, 957
- Back-to-Back Couples, 17, 821
- Back-to-Back Dancers, 4, 805
- Back-to-Back Lines, 36, 833
- Back-to-Back Lines of 3, 342
- Back-to-Back Tandems, 14, 816
- Base-to-Base Interlocked Triangles, 520, 521
- Base-to-Base Triangles, 352, 353
- Bat Spots, 609
- Beginning Double Pass Thru, 42, 841
- Big Block, 607, 608
- Blocks, 377
- Blocks Spots, 373
- Both T-Bone Box, 326
- Box, 15, 19, 817, 819, 820
- Box and Two Couples, 611
- Box and Two Mini-Waves, 407, 610
- Box and Two Tandems, 612
- Box Circulate, 19, 819, 820
- Box of 4, 15, 817
- Butterfly, 375
- Butterfly Spots, 371
- Circle, 25
- Circle of 4, 20
- Circle of 8, 25
- Clump Spots, 605
- Clumps, 606
- Column, 11, 44, 813, 843, 844
- Column of 2, 315
- Column of 3, 321
- Column of 4, 11, 813
- Column of 6, 348
- Column of 8, 216
- Columns, 44, 45, 843–845
- Columns of 3, 347, 348
- Columns of 3 and 2 Lonesome Dancers, 220, 221, 962, 963
- Completed Double Pass Thru, 43, 842
- Concentric Diamond Spots, 410
- Concentric Diamonds, 411–415
- Concentric Right-Hand Diamonds, 415
- Couple, 1, 314, 801
- Diamond, 101, 901, 902
- Diamond and Two Couples, 482
- Diamond and Two Mini-Waves, 480
- Diamond and Two Pairs, 475
- Diamond and Two Pairs Spots, 472

Diamond between Pairs Spots, 432
 Diamond Spots, 310, 312
 Diamonds, 109, 524, 909, 910
 Dixie Grand Circle, 121
 Dogbone, 438, 439
 Dogbone spots, 436
 Double Pass Thru, 42, 841

 Egg, 458, 464
 Egg Spots, 454
 Eight Chain Thru, 40, 839
 End-to-End Single 1/4 Tags, 115
 End-to-End Single 3/4 Tags, 116
 End-to-End Single Quarter Tags, 115
 End-to-End Single Three-Quarter Tags, 116
 End-to-End Triple Column Spots, 385
 End-to-End Triple Columns, 391
 End-to-End Triple Line Spots, 385
 End-to-End Triple Lines, 390
 End-to-End Z's, 119, 120

 Facing 3x1 Triangle, 509
 Facing Couples, 16, 818
 Facing Dancers, 3, 804
 Facing Diamond, 102, 903, 904
 Facing Diamond and Two Mini-Waves, 481
 Facing Diamonds, 110, 911, 912
 Facing Egg, 465
 Facing Galaxy, 460, 989, 990
 Facing Hourglass, 218, 964, 965
 Facing Interlocked Diamonds, 402
 Facing Lines, 35, 832
 Facing Lines of 3, 341
 Facing Point-to-Point Diamond and Two Couples, 486
 Facing Point-to-Point Diamond and Two Mini-Waves, 484
 Facing Point-to-Point Diamonds, 114, 921, 922
 Facing Sausage, 463
 Facing Siamese Diamond, 406
 Facing Star, 329
 Facing Star and Two Couples, 479
 Facing Star and Two Mini-Waves, 478
 Facing Tandem Diamond, 409
 Facing Tandems, 13, 815
 Facing Twin Diamonds, 110, 911, 912
 Four-by-Four, 601
 Full Tag, 43, 842
 Fully Offset Columns, 606
 Fully Offset Parallelogram Spots, 621
 Fully Offset Waves, 606
 Funny 3x1 Triangle, 510–515
 Funny Diamond, 516–519
 Funny Diamonds, 524
 Funny Galaxy, 546
 Funny Hourglass, 543, 544
 Funny Interlocked Diamonds, 525, 527
 Funny Interlocked Twin Diamonds, 525
 Funny Point-to-Point Diamonds, 526
 Funny Tandem-Based Triangle, 504, 505
 Funny Triangle, 501, 502, 504, 505

 Funny Twin Diamonds, 524
 Funny Wave-Based Triangle, 501, 502

 Galaxy, 456, 459, 987, 988
 Galaxy Spots, 452
 Gear, 107
 Gears, 108
 General 1/2 Acey Deucey, 475
 General 1/2 Chain Reaction, 474
 General 1/2 Coordinate, 476
 General 1/3 Tally Ho, 411
 General 1/4 Tag, 423
 General 2-4-2, 422
 General 2/3 Linear Action, 475, 476
 General 2/3 Percolate, 411
 General 2/3 Tally Ho, 476
 General 3/4 Tag, 424
 General 3x1 Triangles, 534–536
 General Big Block, 607, 608
 General Box, 15, 817
 General Butterfly, 375
 General Column, 11, 813
 General Column of 2, 315
 General Column of 3, 321
 General Columns, 45, 845
 General Columns of 3, 347
 General Concentric Diamonds, 411
 General Couple, 314
 General Crossed Lines, 123
 General Diamond and Two Pairs, 475
 General Diamond between Pairs, 433
 General Diamonds, 111
 General Egg, 458
 General Galaxy, 456
 General Hourglass, 219, 455
 General Interlocked 3x1 Triangles, 537, 538
 General Ladder, 604
 General Line, 7, 807
 General Line and Two Pairs, 411
 General Line between Pairs, 422
 General Line of 2, 314
 General Line of 3, 320
 General Line of 6 and 2 Lonesome Dancers, 475
 General Lines, 39, 834
 General Lines of 3, 346
 General O, 376
 General Offset Columns, 541
 General Offset Lines, 542
 General Once Removed 3x1 Triangles, 564–566
 General Parallel Columns, 45, 845
 General Parallel Columns of 3, 347
 General Parallel Lines, 39, 834
 General Parallel Lines of 3, 346
 General Parallelogram, 539, 540
 General Parallelogram Columns, 540
 General Parallelogram Lines, 539
 General Phantom Columns, 569
 General Phantom Lines, 568

General Phantom Spots, 567
 General Point-to-Point Diamond and Two Pairs, 476
 General Point-to-Point Diamonds, 112
 General Quarter Tag, 423
 General Sausage, 457
 General Stairstep, 603
 General Star and Two Pairs, 474
 General Tandem, 315
 General Tandem-Based Triangle, 506
 General Three-Quarter Tag, 424
 General Tidal Column, 216
 General Tidal Line, 51
 General Triangle, 503, 506
 General Twin Diamonds, 111
 General Two-Four-Two, 422
 General Wave-Based Triangle, 503

H Spots, 461
 Half Tag, 38, 837, 838
 Hourglass, 217, 455, 960, 961
 Hourglass Spots, 451

I, 437
 I spots, 436
 In T-Bone Box, 325
 Inpoint Triangles, 356
 Inside Triangles, 358, 359
 Interlocked 3x1 Triangles, 537, 538
 Interlocked Diamonds, 401
 Interlocked Facing Point-to-Point Diamonds, 404
 Interlocked Point-to-Point Diamonds, 403
 Interlocked Tandem-Based Triangles, 521, 523
 Interlocked Triangles, 520–523
 Interlocked Waved-Based Triangles, 520, 522
 Inverted Box, 204
 Inverted Line, 203, 945
 Inverted Lines, 210, 211, 954, 955

Ladder, 604
 Ladder Spots, 602
 Left-Hand Box, 819
 Line, 7, 8, 807, 808
 Line and Two Pairs, 411
 Line and Two Pairs Spots, 410
 Line between Pairs, 422
 Line between Pairs Spots, 421
 Line of 2, 314
 Line of 3, 318, 320
 Line of 4, 7, 807
 Line of 6 and 2 Lonesome Dancers, 475, 481
 Line of 6 and 2 Lonesome Dancers Spots, 472
 Line of 8, 51
 Lines, 39, 834
 Lines Facing In, 35, 832
 Lines Facing Out, 36, 833
 Lines of 3, 346
 Lines of 3 Facing In, 341
 Lines of 3 Facing Out, 342

Magic Column, 431, 983, 984
 Magic Column of 6, 351
 Magic Columns, 431, 983, 984
 Magic Columns of 3, 351
 Mini-Wave, 2, 802, 803

O, 376
 O Spots, 372
 Ocean Wave, 10, 811, 812
 Ocean Waves, 38, 837, 838
 Offset Columns, 541
 Offset Columns Spots, 533
 Offset Lines, 542
 Offset Lines Spots, 533
 Once Removed 3x1 Triangles, 564–566
 Once Removed Boxes, 561
 Once Removed Columns, 562
 Once Removed Diamonds, 563
 Once Removed Lines, 562
 Once Removed Waves, 562
 One-by-Eight, 308
 One-by-Four, 303
 One-by-Six, 304
 One-by-Three, 302
 One-by-Twelve, 385
 One-by-Two, 301
 One-Faced Line, 8, 808
 Out T-Bone Box, 324
 Outpoint Triangles, 357
 Outside Triangles, 360–363
 Ox Spots, 570

Pair, 301
 Parallel 2-and-1 Columns, 349, 350
 Parallel 2-and-1 Lines, 345
 Parallel 3-and-1 Lines, 206–209, 946–953
 Parallel Inverted Lines, 210, 211, 954, 955
 Parallel Ocean Waves, 38, 837, 838
 Parallel Three-and-One Lines, 206–209, 946–953
 Parallel Triple Column Spots, 384
 Parallel Triple Line Spots, 384
 Parallel Triple Lines, 388
 Parallel Triple Waves, 387
 Parallel Two-and-One Columns, 349, 350
 Parallel Two-and-One Lines, 345
 Parallel Two-Faced Lines, 37, 835, 836
 Parallel Waves, 38, 837, 838
 Parallel Waves of 3, 343, 344
 Parallelogram, 539, 540
 Parallelogram Columns, 540
 Parallelogram Lines, 539
 Parallelogram Spots (50% offset), 532
 Parallelogram Spots, 100% Offset, 621
 Parallelogram Spots, Fully Offset, 621
 Phantom Spots, 374, 567
 Phantoms, 378–382
 Point-to-Point Diamond and Two Couples, 485, 486
 Point-to-Point Diamond and Two Mini-Waves, 483, 484
 Point-to-Point Diamond and Two Pairs, 476

Point-to-Point Diamond and Two Pairs Spots, 473
 Point-to-Point Diamond Spots, 313
 Point-to-Point Diamonds, 113, 917, 918
 Promenade, 31

 Quarter Box, 122, 429, 919, 920
 Quarter Diamond, 434
 Quarter Diamond Spots, 432
 Quarter Line, 425, 971, 972
 Quarter Point-to-Point Diamond, 529
 Quarter Tag, 46, 423, 846, 847
 Quarter Tag Spots, 421

 Rigger, 610–612
 Rigger Spots, 609
 Right and Left Grand Circle, 27
 Right-Hand Box, 19, 820

 Sausage, 124, 457, 462
 Sausage of 6, 352
 Sausage Spots, 453
 Siamese Back-to-Back Dancers, 334
 Siamese Box, 381, 382
 Siamese Couple, 331
 Siamese Diamond, 401, 405
 Siamese Facing Couples, 382
 Siamese Facing Dancers, 333
 Siamese Facing Diamond, 402, 406
 Siamese Mini-Wave, 332
 Siamese Pair Spots, 330
 Siamese Tandem, 335
 Siamese Wave, 439
 Side-by-Side Z's, 117, 118, 913–916
 Single 1/2 Tag, 19, 819, 820
 Single 1/4 Tag, 105
 Single 3/4 Tag, 106
 Single Completed Double Pass Thru, 14, 816
 Single Double Pass Thru, 13, 815
 Single Eight Chain Thru, 12, 814
 Single File Promenade, 28
 Single File Wrong Way Promenade, 29
 Single Full Tag, 14, 816
 Single Half Tag, 19, 819, 820
 Single Quarter Tag, 105
 Single Three-Quarter Tag, 106
 Single Zero Tag, 13, 815
 Some Kind of Columns, 45
 Some Kind of Lines, 39, 834
 Some Kind of Tidal Line, 51
 Split Phantom Columns, 617, 618
 Split Phantom Lines, 615, 616
 Split Phantom Waves, 613, 614
 Split Square Thru Box, 205
 Squared Set, 23
 Squared Set Spots, 24
 Stagger, 548, 549
 Stagger Spots, 547
 Stairstep, 603
 Stairstep Spots, 602

 Star, 21, 107
 Star and Two Couples, 477
 Star and Two Mini-Waves, 222
 Star and Two Pairs, 474
 Star and Two Pairs Spots, 471
 Star Spots, 328
 Stars, 22, 108
 Starting Double Pass Thru, 42, 841
 Static Square, 23

 T-Bone Pair, 316, 317
 T-Bone Walk and Dodge Box, 327
 Tandem, 5, 315, 806
 Tandem and reference point, 6
 Tandem Couples, 18, 822
 Tandem Diamond, 408
 Tandem Facing Diamond, 409
 Tandem Single 1/4 Tag, 612
 Tandem-Based Triangle, 323, 504–506
 Tandem-Based Triangles, 353, 355
 Thar, 33, 34, 831
 Thar Spots, 416
 Thar Star, 33, 831
 Three-and-One Line, 201, 202, 941–944
 Three-and-One Lines, 206–209, 946–953
 Three-by-Four, 384
 Three-Quarter Box, 430, 985, 986
 Three-Quarter Diamond, 435
 Three-Quarter Line, 426, 973, 974
 Three-Quarter Point-to-Point Diamond, 530
 Three-Quarter Tag, 47, 424, 848, 849
 Three-Two-Three Spots, 531
 Tidal 3-and-1 Line, 212
 Tidal Column, 216
 Tidal Inverted Line, 213
 Tidal Line, 50, 51, 827, 828
 Tidal One-Faced Line, 50, 827, 828
 Tidal Three-and-One Line, 212
 Tidal Two-Faced Line, 49, 825, 826
 Tidal Wave, 48, 823, 824
 Trade By, 41, 840
 Triangle, 322, 323, 501–506
 Triangle Spots, 309
 Triangles, 352–355
 Triple Box Spots, 383
 Triple Boxes, 386
 Triple Column Spots, 384
 Triple Column Spots, End-to-End, 385
 Triple Columns, End-to-End, 391
 Triple Diamond Spots, 619
 Triple Diamonds, 620
 Triple Line Spots, 384
 Triple Line Spots, End-to-End, 385
 Triple Lines, 388
 Triple Lines, End-to-End, 390
 Triple Waves, 387
 Twin Diamond Spots, 312
 Twin Diamonds, 109, 524, 909, 910

Two-and-One Columns, 349, 350
 Two-and-One Lines, 345
 Two-by-Four, 307
 Two-by-Six, 383
 Two-by-Three, 306
 Two-by-Two, 305
 Two-Faced Line, 9, 809, 810
 Two-Faced Line and Two Couples, 415
 Two-Faced Line between Mini-Waves, 428, 977, 978, 981,
 982
 Two-Faced Line of 6 and 2 Lonesome Dancers, 482
 Two-Faced Lines, 37, 835, 836
 Two-Four-Two, 422
 Two-Four-Two Spots, 421
 Two-One-Two-One-Two Spots, 528

 Wave, 10, 811, 812
 Wave and Two Couples [typical], 414
 Wave and Two Mini-Waves, 412, 413
 Wave between Mini-Waves, 427, 975, 976, 979, 980
 Wave of 3, 319
 Wave of 6 and 2 Lonesome Dancers, 480
 Wave-Based Triangle, 322, 501–503
 Wave-Based Triangles, 352, 354
 Waves, 38, 837, 838
 Waves of 3, 343, 344
 Wrong Way Promenade, 32
 Wrong Way Thar, 34

 X Spots, 371

 Y Spots, 330

 Z, 103, 104, 905–908
 Z Spots, 311
 Z's (End-to-End), 119, 120
 Z's (Side-by-Side), 117, 118, 913–916
 Zero Tag, 42, 841

History of Document Changes

Date	Change Made
2007-08-25	Add General Line, General Lines. Redraw all pictograms.
2008-05-29	Add pictograms approved in 1984.
2008-11-04	#25: change name to Starting Double Pass Thru.
2008-11-05	#26: change name to Double Pass Thru.
2008-11-06	#76: change to say “10 possible”.
2009-08-24	#60: fix dancer facing direction. #76: change back to “8 possible” by mistake.
2009-08-25	Add Dixie Grand Circle and Right and Left Grand Circle (approved in 1983).
2010-09-28	#76: change to say “10 possible”. Add change history.
2010-12-14	Convert to Word.
2016-08-31	Convert to LaTeX. Completely rewrite and reorganize by programs. Renumber all pictograms.
2021-09-24	Add index. Move change log to end.
2022-03-24	Eliminate redundant variations of many formations; reduce the number of pages. Add section “Compound Names and Descriptions of Subformations” to preface. Add pictograms for 4x4 and Big Block. Improve description of T-Bone formations. Add diagonal lines to pictograms for Offset Lines, Offset Columns, Stagger, and Big Block. Move all Tidal Lines from Plus to Basic/Mainstream section. Add separate diagrams for stars made by facing couples at Basic/Mainstream and for “gears” at Plus. Improve geometric spacing of diamonds and general phantom spots. Make formatting of captions more consistent; correct typos in captions and text.
2022-06-06	Remove all pictograms with “Left-Hand” formation names. Reorganize some pages. Add formation names Zero Tag, Right-Hand 1/2 Tag, Full Tag (used in Basic Definitions). Add formation names Single Zero Tag, Single Right-Hand 1/2 Tag, Single Full Tag. Update the section “Right-Hand Formations and Left-Hand formations” in preface. Update the section “T-Bone formations” in preface. Update the section “Organization of Pictograms” in preface. Add sections “Handholds” and “Breathing” to preface. Update the section “Arrangements and normal formations” in preface. Change pictograms for Squared Set Spots at Basic/Mainstream and C-1. Add primary name “Sausage” to pictogram at Plus. Add Table of Contents. Add “(Parallel)” to primary names of 3-and-1 Lines and Inverted Lines. Consistently allow “Quarter” and “Three-Quarter” as alternatives to “1/4” and “3/4” in names. Consistently allow “Half Tag” as an alternative to “1/2 Tag” in names. Add index entries, including uses of General, Parallel, End-to-End, Base-to-Base, and Apex-to-Apex. Add 1/4 Diamond, 3/4 Diamond, and related formations. Fix typos. Improve wording throughout the preface.
2022-09-20	Correct an error in pictogram for 3/4 Diamond: outsides should be facing out. Add name “Circle of 2” to pictogram for Facing Dancers.
2024-06-18	Add formation name General Crossed Lines at Plus (used in definition of (Anything) and Spread). Add formation Thar Spots at C-1. Add a duplicate of Right-Hand 1/4 Box at Plus (used in definition of (Anything) and Spread). Add cross-references from Triple Waves at C-1 to side-by-side Z’s at Plus. Add cross-references from Triple Boxes at C-1 to end-to-end Z’s at Plus. Say in preface that a few entries provide a cross-reference instead of a primary name. Add formation name Siamese Facing Diamond as alternative to Facing Siamese Diamond. Add formation name Tandem Facing Diamond as alternative to Facing Tandem Diamond. Change every occurrence of “Interlocked Right-Hand” to “Right-Hand Interlocked”. After “Right-Hand Box Circulate” add “(formation)”. After “Right-Hand 1/2 Tag” add “(formation)”. After “Right-Hand Half Tag” add “(formation)”. Change every occurrence of “Basic and Mainstream” to “Basic, Mainstream, and SSD”.

Date	Change Made
2024-06-20	<p>Add “Three-and-One” as an alternative to “3-and-1” almost everywhere.</p> <p>Add “Two-and-One” as an alternative to “2-and-1” everywhere.</p> <p>After “2-and-1” or “Two-and-One” Lines or Columns, “of 3” is now parenthesized.</p> <p>Add “(Parallel)” to 2-and-1 Columns in two pictograms.</p> <p>Add “Two-Four-Two” as an alternative to “2-4-2” everywhere.</p> <p>Add “Three-Two-Three” as an alternative to “3-2-3” everywhere.</p> <p>Add “Two-One-Two-One-Two” as an alternative to “2-1-2-1-2” everywhere.</p> <p>Move H Spots from C-2 to C-1, and cross-reference Triple Waves/Lines/Columns.</p> <p>From 2-4-2 Spots, cross-reference Triple Waves/Lines/Columns.</p> <p>Replace primary name “Sausage” in pictogram at Plus with a cross reference.</p> <p>Change facing directions for the Ends in the first Dogbone pictogram (to have non-funny triangles).</p>
2024-06-21	<p>Add an Appendix of pictograms that show handholds, the wave adjustment, and breathing.</p> <p>The Appendix also shows Left-Handed and Right-Handed versions of selected formations.</p> <p>Revise the text about tidal formations in the section on Breathing.</p> <p>Add the terms “100% Offset Waves” and “100% Offset Columns” to Clumps.</p> <p>Add formation “Fully Offset Parallelogram Spots” at C-3A.</p> <p>Add “(50% offset)” to relevant parallelogram and offset formations.</p> <p>Change “1/2 Percolate” to “2/3 Percolate” in the two pictograms that mention it.</p>
2025-03-21	Add “General Wave-Based Triangle” and “General Tandem-Based Triangle” at C-2.
2025-05-27	<p>Add a paragraph of explanation at the start of the Appendix.</p> <p>Add “Triangle Spots” at C-1.</p> <p>Add “3x1 Triangle Spots” at C-2.</p>
2025-06-17	Draft approved by vote ended 2025-06-12. Freeze for publication.