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SYSTEM LAYOUT EXAMPLE: TANDEM AXLE
DUAL TIRE
1-HOLE AXLE DRILLING

MAJOR SYSTEM COMPONENTS
1 – Pressure Protection Valve (PPV)
2 – Control Box Assembly (refer to Section A for options)
3 – Air Line T-Fitting
4 – Axle Drill Fitting
5 – Axle Y-Fitting
6 – Breather Vent Assembly
7 – Spindle Plug Assembly (refer to Section C for options)
8 – Rotating Shaft Assembly (refer to Section C for options)
9 – Hubcap Assembly (refer to Section C for options)
10 – Inner Tire Hose Assembly (refer to Section C for options)
11 – Outer Tire Hose Assembly (refer to Section C for options)
SECTION A - CONTROLS

AIR TANK PLUMBING COMPONENTS:

10047
Pressure protection valve

ATP1
Air tank plumbing kit with PPV + hardware connections

ELECTRICAL (LOW-PRESSURE WARNING LIGHT) COMPONENTS:

20093L
LED warning light with bracket

20093
LED warning light kit with label & hardware

ELECTRICAL HARNESSSES:

E0070
Electrical harness for 7-way power
7" cable with terminals mounted: Delphi connector at low-pressure sensor and female .180 bullet connectors at low-pressure warning light (customer to cut and splice at connection to trailer 7-way power)

E5555
Electrical harness for 7-way power
Pre-assembled harness for connection to trailer 7-way power, terminals mounted: Delphi connector at low-pressure sensor, female .180 bullet connectors at low-pressure warning light, bare copper at trailer 7-way power, no cutting/splicing

* 5" length from 7-pole power connection to junction, 5" length from warning light to junction, 55" length from junction to low-pressure sensor

E1665
Electrical harness for ABS power
Pre-assembled harness for connection to trailer ABS power, terminals mounted: Delphi connector at low-pressure sensor, female .180 bullet connectors at low-pressure warning light, Delphi connector at trailer ABS power, no cutting/splicing

* 21" length from low-pressure sensor to ABS power connection, 66" length from low-pressure sensor to warning light
SECTION A - CONTROLS (CONT'D)

ELECTRICAL HARNESS (cont'd):

EX007S
Electrical harness for ABS power
*CUSTOM LENGTH* Harness for connection to trailer ABS power, terminals mounted. Delphi connector at low-pressure sensor, female .180 bullet connector at low-pressure warning light. Delphi connector at trailer ABS power, no cutting/splicing
* XX = length (ft.) from low-pressure sensor to ABS power connection, Y = length from low-pressure sensor to warning light

E10SP EN
Enclosure pigtails
* Connects PressureGuard electrical harness to any standard inflate-only regulator in enclosure (through enclosure wall)

PCFA-09
ABS power adapter
* Connects PressureGuard electrical harness to ABS controller as power source

REGULATOR & CONTROL BOX ASSEMBLIES:

20046N (shown)
Regulator assembly, open-mount bracket
Standard inflate-only

20046NE (shown)
Regulator assembly, enclosure mount
Standard inflate-only

20046-ID (shown)
Regulator assembly, enclosure mount
Inflate - deflate

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<th>FUNCTIONALITY</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>TIRE PRESSURE SETTING</th>
<th>LOW-PRESSURE SENSOR</th>
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<td>70 psi</td>
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</table>
SECTION A - CONTROLS (CONT'D)

REGULATOR & CONTROL BOX COMPONENTS:

46-930
System shutoff valve (1/8" NPT)

10280 (shown)
Low-pressure sensor
- 10270 = 70 psi
- 10280 = 80 psi
- 10290 = 100 psi

SECTION B - PLUMBING

AIR LINE COMPONENTS:

10050-DOT
1/4" air line
* Use only PressureGuard approved tubing

10107
1/4" split loom

10028
1/4" air line tee

AXLE DRILL FITTINGS:

10042D
Axle drill fitting
1/8" NPT x 1/4" tubing
* Standard PressureGuard axle drilling

10040D
Axle drill fitting
1/4" NPT x 1/4" tubing
* Hendrickson axle drilling

10040C
Low-profile axle drill fitting
1/4" NPT with internal air line to spindle plug
* Intruss/Intrusive axle drilling

BREATER VENT ASSEMBLIES:

28006
1-hole breather assembly
* Only for 1/8" NPT 1-hole axle drilling

28003 (shown)
3-hole breather assembly
- 28003 = 1/8" NPT axle drilling
- 28004 = 1/4" NPT axle drilling, 45° fitting
- 28005 = 1/4" NPT axle drilling, straight fitting

PRESSUREGUARD™
### SECTION C - WHEEL-ENDS

**TIRE HOSES:**
- 38001 (shown) Outer tire hose for integral hubcap, 22.5" + dual tire
- 38000 (shown) Inner tire hose for integral hubcap, 22.5" + dual tire

<table>
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<tr>
<th>PRESSUREGUARD HUBCAP STYLE</th>
<th>WHEEL TYPE</th>
<th>TIRE SIZE</th>
<th>WHEEL MATERIAL</th>
<th>TIRE POSITION</th>
<th>TIRE-END FITTING</th>
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SECTION C - WHEEL-ENDS (CONT'D)

HUBCAP ASSEMBLIES:

PressureGuard Integral Hubcap Assemblies

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*5.50° bcd

PressureGuard Rotating Hubcap Assemblies

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*5.50° bcd

PressureGuard Screw-on Hubcap Assemblies

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<th>Assembly Part No.</th>
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<td>Parallel (P, TP, F24, etc.)</td>
<td>- 6.75° bcd</td>
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</table>

*6.75° bcd

*All PressureGuard integral hubcap assemblies include hubcap gaskets and 6 hubcap bolts.

*All PressureGuard rotating hubcap assemblies include hubcap gaskets and 6 hubcap bolts.

*All PressureGuard screw-on hubcap assemblies include hubcap gaskets and 6 hubcap bolts.
SECTION C - WHEEL-ENDS (CONT’D)

SPINDLE PLUG ASSEMBLIES:

1.75” spindle i.d. (N, TN, F22 spindle) applications

- 21750
  1.75” spindle plug assembly for 3-hole axle drilling and roadside 1-hole axle drilling

- 21750-1H
  1.75” spindle plug assembly for curbside 1-hole axle drilling

2.75” spindle i.d. (P, TP, F24 spindle) applications ** GREASE LUBE **

- 22750
  2.75” spindle plug assembly for 3-hole axle drilling and roadside 1-hole axle drilling

- 22750-1H
  2.75” spindle plug assembly for curbside 1-hole axle drilling

- 22750S
  2.75” spindle plug assembly for 3-hole Intraax/Vantraax axle drilling

2.75” spindle i.d. (P, TP, F24 spindle) applications ** OIL LUBE **

- 22750M
  2.75” spindle plug assembly for oil lube, 3-hole axle drilling and roadside 1-hole axle drilling

- 22750M-1H
  2.75” spindle plug assembly for oil lube, curbside 1-hole axle drilling

- 22750MS
  2.75” spindle plug assembly for oil lube, 3-hole Intraax/Vantraax axle drilling

Solid spindle (A28, K30, certain SSA) and pre-2007 spindle plug applications

- 20072
  Air cylinder with seal, no spindle plug, for directly-threaded (solid spindle) applications and for use with all spindle plugs prior to 2007
SECTION C - WHEEL-ENDS (CONT'D)

ROTATING SHAFT ASSEMBLIES:

10585
Rotating shaft assembly
* 5" OAL for all integral hubcap applications with N spindle axles and certain rotating and screw-on applications with P spindle axles

10885
Rotating shaft assembly
* 6" OAL for all integral hubcap applications with P spindle axles

10665ML (shown)
Cut-to-length rotating shaft assembly
Part no. 10665 = 1" steel shaft
Part no. 10665ML = 1.75" steel shaft
Part no. 10665XL = 2.75" steel shaft

* For all UNKNOWN spindle/hub combinations