



# TRANSLAND



*Product Catalog*



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This file has ben truncated in size for ease of use on the internet. See other files listed in this area for the other sections.

This file contains sections: C, G, H and O only.

If you would like the complete catalog, please e-mail  
[Sales@TranslandLLC.com](mailto:Sales@TranslandLLC.com)  
 or call 940.687.1100

# Introduction

## Transland

1206 Hatton Road, Suite A  
Wichita Falls, TX 76302 - U.S.A.

Telephone: (940)687-1100

Toll Free: (800)388-2511

Fax: (940)687-1941

E-mail: sales@translandllc.com

## Shipping

Shipping charges for motor freight and air freight are payable upon delivery. Shipment of items such as spreaders, Swathmasters, Gate Boxes or large orders are normally shipped by motor freight. Smaller items are usually shipped by United Parcel Service. Method of shipment and/or carrier should be specified when ordering. All shipments are F.O.B., Wichita Falls, Texas 76302

## Weight

All weights are net weights and do not include packaging.

## Exporting

Export order terms are:

- Sight Draft or Letter of Credit
- Prepayment by bank draft or check

## Payment

Terms offered are:

- Net 30 days with approved credit
- Prepayment
- Visa & MasterCard

## Replacement Parts

Any part of any piece of equipment shown in this catalog can be replaced. Give model and serial number of the unit for which the part is being ordered. If the unit has no number, give the complete description of the unit, date of purchase and description of the part/parts required.



## Shipment of Parts to Transland

All parts returned to

Transland are to be shipped freight prepaid. To obtain the lowest motor freight shipping rate, indicate on the bill of lading the following:

Sprayers N.O.1, NMFC No. A-11

Item 9385, CL85

10 vane spreaders - CL200

8 vane spreaders - CL150

Parts returned must include:

- A copy of the invoice showing original purchase
- A detailed explanation of the reason for return

## Warranty

Transland warrants the products furnished in this catalog to be free from defects in material and workmanship under normal use and service for a period of one (1) year from date of sale by Transland. Transland's obligation under the warranty shall be to repair or replace any product which is returned to Transland within the warranty period and which, upon inspection by Transland, is proven to be defective. The warranty shall not apply to any product which has been subject to misuse, negligence, accident or to items such as Seals, Gasket or Bearings that require replacement during routine maintenance. If, however, a Transland product does not perform to the satisfaction of the user within the first 90 days after purchase, such product may be returned (freight collect) for a full refund.

Hours: 8:00 am to 5:00 pm Central time  
Monday through Friday

To order, contact dealer for full details and specifications.

# CESSNA



## Gate Boxes

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 20868 | ✓       | ✓       | ✓       | C4     |
| 21966 | ✓       | ✓       | ✓       | C4     |
| 20281 | ✓       | ✓       | ✓       | C4     |
| 20282 | ✓       | ✓       | ✓       | C4     |
| 20284 | ✓       | ✓       | ✓       | C4     |

## Seeder Plate

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 21126 | ✓       | ✓       | ✓       | C4     |

## Adapter Box

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 20263 | ✓       | ✓       | ✓       | C4     |

## Quick Disconnect Flange

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 20700 | ✓       | ✓       | ✓       | C4     |
| 54065 | ✓       | ✓       | ✓       | C4     |

## Quick Disconnect

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 23507 | ✓       | ✓       | ✓       | C4     |

# CESSNA

## Spreaders

### SPREADERS

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

20160

✓

✓

✓

C5

20181

✓

✓

✓

C5

## Swathmaster

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

54401

✓

✓

✓

C5

## 2" Spray Valves

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

58383

✓

✓

✓

C5

20383

✓

✓

✓

C5

## 3" Spray Valve

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

53383

✓

✓

✓

C6

## Loader Valves

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

20391

✓

✓

✓

C6

20392

✓

✓

✓

C6

## Pumps

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

51069

✓

✓

✓

C6

23700

✓

✓

✓

C6

51066

✓

✓

✓

C6

21066

✓

✓

✓

C6

20790

✓

✓

✓

C6

51069

✓

✓

✓

C6

51867

✓

✓

✓

C6

21867

✓

✓

✓

C6

## Pump Mount

#### PARTS

#### AGWAGON

#### AGTRUCK

#### AGHUSKY

#### Page #

21100

✓

✓

✓

C7

### VALVES

### PUMPS

# CESSNA

## Strainers

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 20841 | ✓       | ✓       | ✓       | C7     |
| 59041 | ✓       | ✓       | ✓       | C7     |

## 2" Booms

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 56543 | ✓       | ✓       | ✓       | C7     |
| 56551 | ✓       | ✓       | ✓       | C7     |
| 56550 | ✓       | ✓       | ✓       | C7     |

## Boom Hangers

| PARTS | AGWAGON | AGTRUCK | AGHUSKY | Page # |
|-------|---------|---------|---------|--------|
| 23097 | ✓       | ✓       | ✓       | C7     |
| 23098 | ✓       | ✓       | ✓       | C7     |
| 23099 | ✓       | ✓       | ✓       | C7     |
| 57543 | ✓       | ✓       | ✓       | C7     |

BOOMS

**GATE BOXES****GATE BOXES**

Gate Seal: 60210, Mounting Gasket set 60160, Hopper Throat 9.5" x 25"

20868 - 2.5" outlet, 2" inlet for ground loading

21966 - 3" & 2" male Q.D. w/ dust caps

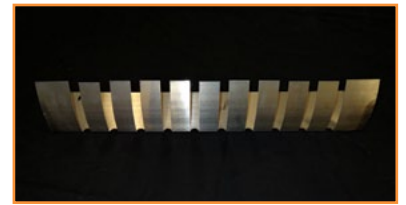
20281 - Basic Gate Box, 2" male fitting & dust cap

20282 - 9.5" x 25" Gate Box

20284 - Same as 20282 w/ 2" male fitting & dust cap

**SEEDER PLATE**

21126 - 25" Seeder Plate

**ADAPTER BOX**

20263 - 9.5" x 25"

Extends gate box 6" lower from the hopper flange allowing better air flow into the spreader and/or swathmaster, .050 thick stainless steel

**QUICK DISCONNECT FLANGE**

20700 - 9.5" x 38

Can be substituted for Transland bolt-on flange. Comes w/ 60161 Hopper Throat Gasket. Uses 54065 stiffener kit when using Gate Box.

54065 - Stiffener Kit: Required when Q.D. flange is used on Gate Box. Includes 4 bolt-on stainless steel angles & aluminum frame w/ hardware & gaskets.

**QUICK DISCONNECT**

23507 - Quick disconnect plate for all 25" Gate Boxes



**SPREADERS****SPREADERS**

20160 - High volume Spreader w/ adjustable straight intake vanes

20181 - High volume Spreader w/ non-adjustable vanes  
Lower lip & sides are extended 5" for increased air intake

**SWATHMASTER**

54401 - For standard Transland Gate Boxes, 9.5" x 25" includes 22615 Center Section, 22616 & 22617 wing panels, as well as assembly hardware.

**VALVES****2" SPRAY CONTROL VALVES**

58383 - Stainless Steel 2" Q.D. inlet port, 2" hose outlet & return ports.  
Stainless Ball: 52465  
Service Kit: 53390

20383 - Same as above.  
Brass Ball: 42465  
Service Kit: 54001



**VALVES****3" SPRAY CONTROL VALVE**

53383 - Stainless steel 3" Q.D. inlet port, 3" hose outlet & 1.5" return ports.

Stainless Ball: 52326

Service Kit: 54474

**LOADER VALVES**

20391 - Aluminum left Loader Valve

Service Kit: 54009

Seal Kit: 50391 - 54097

20392 - Aluminum right Loader Valve

Service Kit: 54014

Seal Kit: 55204 - 50392

**PUMPS****6" SEMI-OPEN IMPELLERS**

51069 - Stainless steel wind driven Pump. 3" hose inlet & outlet connector ports.

Includes dual-blade fan 60010 flow rated at 135 GPM/47 PSI at 3500 RPM

Service Kit: 54027

20790 - Aluminum wind driven Pump. Same as 51069 w/o fan.

Service Kit: 54027

23700 - Aluminum wind driven Pump. Same as 20790 w/ electric brake.

Includes dual-blade fan 60010

Service Kit: 54027

51066 - Stainless steel hydraulic driven Pump w/ 2" hose inlet & outlet connector ports. Internal splined drive shaft.

(for use with hydraulic motors having splined output shaft)

Service Kit: 51625

21066 - Same as 51066

Service Kit: 54026

51069 - Stainless steel wind driven Pump. Has conventional 5" brake.

51867 - Stainless steel hydraulic driven Pump. For Cessna aircraft w/ 3" system.

Internal splined drive shaft. 2" hose outlet connector port.

(for use w/ hydraulic motors having splined output shaft)

Service Kit: 51625



**PUMPS****6" SEMI-OPEN IMPELLER**

21867 - Aluminum hydraulic driven Pump. Same as 51867  
Service Kit: 54026

**PUMP MOUNT**

21100 - Pump Mount Assembly consists of 20489 lower, 20493 upper & 20564 bracket components.  
Service Kit: 54026

**STRAINERS****Y-STRAINERS**

20841 - Replaces 20354 Strainer. 2" hose inlet & 1.5" Q.D. outlet connections.  
Comes w/ 40 mesh screen, 10" long x 13.38"

59041 - Same as above in stainless steel

**BOOMS****2" BOOMS**

56543 - 192" long, (34) .125" female fittings & 5.5" spacing, 1.5" female Q.D. inboard, 1" make Q.D. outboard w/ dust cap

56550 - Airfoil Boom. Left hand 192" long, (34) .125" female fittings & 5.5" spacing, 1.5" female Q.D. inboard, 1" make Q.D. outboard w/ dust cap

56551 - Airfoil Boom. Right hand 192" long, (34) .125" female fittings & 5.5" spacing, 1.5" female Q.D. inboard, 1" make Q.D. outboard w/ dust cap

**BOOM HANGERS**

23097 - Long assembly  
23098 - Medium assembly  
23099 - Short assembly

57543 - Boom & hanger kit  
Includes 2 each of: 20397, 23098, 23099 & 56543 Booms



## ACCESSORIES

### VANE EXTENSION KITS

For 25", 38" & 41" Spreaders:

55124 - Vane Extension kit

Fits 23501 & 23502. Includes (x10) 23439 vane extensions.

54424 - Vane Extension kit

For Thrush 20250 & 20160 high volume Spreaders.

Extends Spreader front vanes 3.5" X 4". Includes 8 vane extensions.

54498 - Vane Extension kit

Fits 20240 Spreader. Includes 8 vane extensions.

55125 - Vane Extension kit

For 22007 Spreader. Includes 8 vane extensions.

56325 - Vane Extension kit

For 22007 Spreader. Includes 8 vane extensions.

For 38" or 41" Gate Box:

10384 - Vane adjustment rod, .3125 threaded stainless steel, heavy duty rod

10870 - Washers

80552 - Vane adjustment nut, .3125 stainless steel nut



### SPREADER QUICK DISCONNECT ATTACHMENT PLATES

For ALL 25" Gate Boxes:

23507 - Quick Disconnect Plate

38" Air Tractor & Ag-Cat:

23505 - Quick Disconnect Plate

25505 - New Style w/ studs

41" Thrush & Dromader:

23504 - Quick Disconnect Plate



### SPREADER ACCESSORIES

All Spreaders:

50217 - Over Center Latch

Fits 23501 & 23502. Includes (x10) 23439 vane extensions

Air Tractor & Ag-Cat

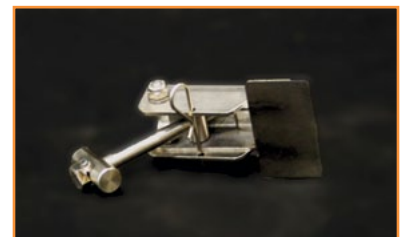
56566 - Rear Brace Assembly

38" Spreader. 2 each per Spreader.

Spreader Cart

50067 - Spreader Cart

Stainless steel, front loading w/ hydraulic lift. One man can install and remove.



## ACCESSORIES

### BUTTERFLY VALVES

1.5"

53622 - All stainless construction

2"

23623 - Aluminum body, stainless disc & shaft

53617 - All stainless steel construction for Cessna

53623 - All stainless steel construction

2.5"

23624 - Aluminum 14° male Q.D. with butterfly Valve

53624 - Stainless steel 14° male Q.D. with butterfly Valve

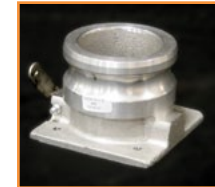
23626 - Aluminum body, stainless disc, shaft and male Q.D. with butterfly Valve

53626 - All stainless steel version of 23626

3"

23625 - Aluminum body, stainless disc & shaft. Standard on all new Air Tractors.

53625 - All stainless steel version of 23625



### BALL BOOM SHUT-OFF VALVES

1.5" Ball Boom Shut-Off Valve

58301 - Stainless Steel

2" Ball Boom Shut-Off Valve

58302 - Stainless Steel

### BOOM SHUT-OFF CABLES

25119 - Push/Pull Round Knob Cable

5' long

25122 - Push/Pull Round Knob Cable

6' long

25118 - Push/Pull T-Handle Cable

With locking T-Handle. 4.5' long

25120 - Push/Pull T-Handle Cable

With locking T-Handle. 5' long

25121 - Push/Pull T-Handle Cable

With locking T-Handle. 6' long

25123 - Push/Pull T-Handle Cable

With locking T-Handle. 8' long

25124 - Push/Pull T-Handle Cable

With locking T-Handle. 7' long

## ACCESSORIES

## STAINLESS STEEL DRY LOCKS

Standard Dry Locks:

2"

50002 - Adapter

Service Kit: 51935

3"

50003 - Adapter

Service Kit: 51937

Quick Disconnect Dry Locks:

2"

53002 - Adapter

Service Kit: 51935

3"

23003 - Adapter

Service Kit: 51937

## ALUMINUM WIND DRIVEN PUMPS

25010 - Service Kit: 54346

25011 - Service Kit: 54346

25015 - 3" hose straight inlet & 2" hose outlet connector ports w/o fan.

Flow rate at 175 GPM/76 PSI at 3600 RPM

Service Kit: 54029

## STAINLESS STEEL IMPELLERS

6" Stainless Steel Impellers:

52352 - Replaces 42352 aluminum Impeller. Fits 20783 & 20790 Pumps.

50887 - Replaces 40887 aluminum Impeller. Fits 21066 Pump.

53640 - Replaces Argonautics 6506 Impeller

6.5" Stainless Steel Impellers:

50782 - Replaces 40782 aluminum Impeller. Fits 21859, 21860, 21861, 21863, 21864, & 21869 Pumps

51420 - High Volume version of 50782

7" Stainless Steel Impellers:

50988 - Replaces 40988 aluminum Impeller

## CESSNA COUPLING ASSEMBLY

50761 - Stainless Steel Coupling Assembly

For 51066 Pump. This 2" Q.D. angled female coupling assembly attaches the intake hose to the pump outlet.

20761 - Aluminum Coupling Assembly

Same as above



## ACCESSORIES

## THRUSH PUMP INLETS

50945 - Pump Inlet, stainless steel  
2.5" hose at 60° inlet for 6.5" Pump

50944 - Pump Inlet, stainless steel  
3" hose at 60° inlet for 6.5" Pump

50858 - Pump Inlet, stainless steel  
3" hose straight inlet for 6.5" Pump

50859 - Pump Inlet, stainless steel  
3" hose at 45° for 6.5" Pump



## GRADUATED BOOM STOCKS

55097 - 1" Streamline Boom Stock (.049 wall)

55098 - 1.25" Streamline Boom Stock (.049 wall)

55101 - 1.5" Streamline Boom Stock (.049 wall)

55099 - 1.75" Streamline Boom Stock (.065 wall)

55100 - 2" Streamline Boom Stock (.065 wall)

55104 - 2" Airfoil Boom Stock (.065 wall)

55106 - 2.25" Streamline Boom Stock (.065 wall)

55102 - 2.5" Streamline Boom Stock (.065 wall)

55103 - 3" Streamline Boom Stock (.065 wall)

## BOOM HANGERS

*For AgCat:*

22922 - Aluminum Boom Hangers for AgCat over wing.

56675 - Drop Hanger

56676 - Drop Hanger & fittings

Drop hanger with stainless steel Q.D. fittings & swivel boom hanger mount.

*For Cessna:*

23097 - Boom Hangers, long assembly

23098 - Boom Hangers, medium assembly

23099 - Boom Hangers short assembly

57543 - Boom & Hanger kit for Cessna, includes 2 each of:

23097, 23098, 23099 & 56543 Booms.

## ACCESSORIES

## END FITTINGS

*Stainless Steel:*41057 - 1" NPT Male plug41058 - 1" NPT Female half coupling50727 - Coupling assembly50913 - 1.5" Male Q.D. streamline coupling56505 - 1.5" Female Q.D. coupling56507 - 2" Female Q.D. coupling56506 - 2.5" Female Q.D. coupling56502 - 3" Female Q.D. coupling*Aluminum:*20727 - Coupling assembly

1.5" Female Q.D. fits streamline Boom

40913 - Male streamline coupling

1.5" Male Q.D. fits 30285 Y-Boom

41017 - Outboard end cap

1" Female Q.D.

41018 - Outboard end cap

1" Male Q.D.

## STAINLESS STEEL BAFFLE

56716 - Stainless Steel Baffle

For 510 gallon Thrush hopper. Replaces factory aluminum baffle. 4 required.

## OVERFLOW TUBE

56717 - Overflow Tube

For 510 gallon Thrush hopper. Stainless steel.

## METERING PLATE

22752 - 41" Metering Plate

## COMPONENTS

## ADAPTERS

*Female Thread, Aluminum*85050 - 1"85051 - 1.25"85052 - 1.5"85053 - 2"85054 - 2.5"*Male Thread, Aluminum*85057 - 1"85058 - 1.25"85059 - 1.5"85060 - 2"85061 - 2.5"

## QUICK DISCONNECT FITTINGS/COUPLERS

*Male Thread, Aluminum*85286 - 1"85287 - 1.25"85289 - 2"85290 - 2.5"*Female Thread, Aluminum*85255 - 1"85256 - 1.25"85257 - 1.5"85258 - 2"85259 - 2.5"

20761 - Coupling, female thread, 2" aluminum intake coupling from Gate Box. Cessna hydraulic spray system.

50761 - Coupling

Female Thread

Stainless steel version of 20761

56505 - Q.D. Coupling, Female

1.5" Stainless steel

56507 - Q.D. Coupling, Female

2" Stainless steel

Quick Disconnect Dust Caps with neoprene gaskets

*Aluminum*85319 - 1"85320 - 1.25"85321 - 1.5"85322 - 2"85323 - 2.5"85207 - 3"

## COMPONENTS

## QUICK DISCONNECT FITTINGS/COUPLERS (Continued)

*Stainless Steel*56508 - 1.5"56509 - 2"56511 - 2.5"56504 - 3"56501 - 4"*Hose, Aluminum*85280 - 1"85281 - 1.25"85282 - 1.5"85283 - 2"85284 - 2.5"85034 - 3"*Hose, Female, Stainless Steel*55282 - 1.5"55283 - 2"55284 - 2.5"55285 - 3"50903 - 4"*Male Q.D. with Flange, Stainless Steel*52619 - 2"56620 - 2.5"50909 - 3"*Q.D. to Hose at 90° Fitting, Stainless Steel*56584 - 2"56569 - 2.5"56599 - 3"*Gaskets for Quick Disconnect Fittings*85362 - 1"85366 - 1.25"85364 - 1.5"85363 - 2"85365 - 2.5"86188 - 3"86195 - 4"

## PILOT CONTROLS

20875 - Micrometer

For Air Tractor. A micrometer screw mechanism permits ready adjustment of gate stop.

20884 - Micro Control for Thrush. A micrometer screw mechanism with graduated 12" scale.

5 turns per inch adjusts gate stop.

## COMPONENTS

### HOPPER WINDOW KITS

*Air Tractor*

54415 - Window Kit, 17" x 6"

*Standard*

54109 - Window Kit, 13" x 6"

*Weatherly*

54421 - Window Kit, 9" x 9.375", Fits 400 gallon hopper.

### SPRAY CONTROL HANDLE

21611 - Spray Control Handle for Thrush & Air Tractor.  
Screw type handle adjusts stop for precise metering of liquids.



### FANS FOR BOOMMASTER & SPRAYING SYSTEMS

60010 - 20" Dia. Counter Clockwise Fan  
Laminated birchwood construction. Two blades w/ 22° pitch.

60016 - 11" Dia. Counter Clockwise Fan  
Laminated birchwood construction. Four blades.  
Used w/ Transland wind-driven agitator Gate Boxes.

60011 - 20" Dia. Counter Clockwise Fan  
Laminated birchwood construction. 4 blades w/ 22° pitch.

### CLAMPS & LATCHES

20441 - Over-Center Latch  
Used with quick disconnect Pump Mounts, Quick Disconnect  
Flange & Line Strainers. Stainless steel.

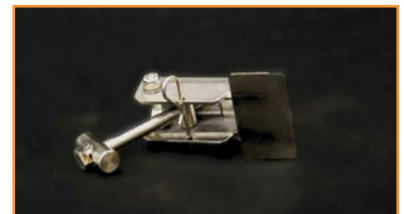
50217 - Latch Assembly  
Attaches spreader to gate box. Stainless steel.

54102 - Latch Hook Assembly  
Q.D. attachment for swathmaster or spreader to Gate Box. Stainless steel.

85154 - Knuvise Clamp, Small

85155 - Knuvise Clamp, Large

85170 - De-Sta-Co Clamp  
Used on dump gate of boommaster Pumps



## COMPONENTS

### MALE Q.D. FLANGED FITTINGS

42618 - 1.5" Aluminum  
52618 - 1.5" Stainless steel  
42619 - 2" Aluminum  
52619 - 2" Stainless steel  
42620 - 2.5" Aluminum  
56620 - 2.5" Stainless steel  
40909 - 3" Aluminum  
50909 - 3" Stainless steel



40271 - Flanged Fitting, angled  
 2.5" Male Q.D. Aluminum

40317 Flanged Fitting, angled  
 2" Male Q.D. Aluminum.

50317 Flanged Fitting, angled  
 2" Male Q.D. Stainless steel.

### BRAKE SHOES

*Thrush, Ag-Cat, Snow & Stearman*  
50560 - Brake Shoe for 21859, 21860, 20861, 21864 & 21869  
 Transland 6.5" Impeller spray Pumps.  
 Also used on other types of spray Pumps.

*Thrush & Ag-Cat*  
20503 - Brake Shoe for 20808 & 20810  
 7" Impeller spray Pumps.

*Cessna, Piper & Callair*  
20502 - Brake Shoe for 20783 & 20790  
 6" Impeller spray Pumps.

### SPACERS

52488 - Spacer w/ Quick Disconnect  
 Stainless steel.

52487 - Spacer for Thrush. Valve to Gate Box.  
 Stainless steel.

52587 - Spacer for Weatherly. Valve to Gate Box.  
 Stainless steel.

## COMPONENTS

## SPRAY NOZZLES

85489 - Nozzle, Brass  
.125" NPT. D6 orifice. #45 core.

85117 - Nozzle, Aluminum  
.125" NPT. D8 orifice. #45 core.

85521 - Nozzle, Nylon  
.125" NPT. D6 orifice. #45 core.

85884 - Nozzle Diaphragm

85614 - D6 Orifice  
D2 to D6 orifices also available.

85248 - #45 Brass Core  
#13, 23, 25, 46 & 56 Cores are also available.

81168 - .125" NPT Nipple

81175 - .125" NPT Plug

## FOOT STEP

51917 - For use on any standard Foot Step.  
Improves footing while entering the aircraft.  
Stainless steel.

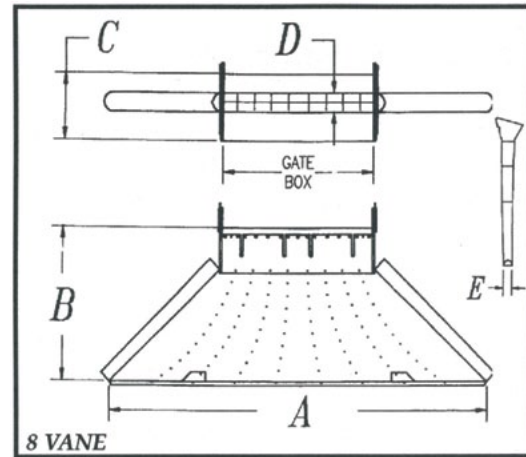
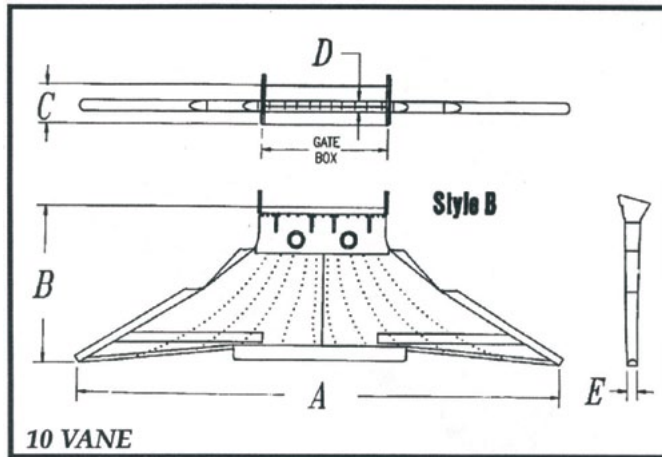
## WRENCH STAINLESS STEEL SPRAY VALVES

51973 - Wrench  
For installing & removing cap on 2" valves.

24072 - Wrench  
For installing & removing cap on 2.5" & 3" valves.

# APPENDIX

## SPREADERS

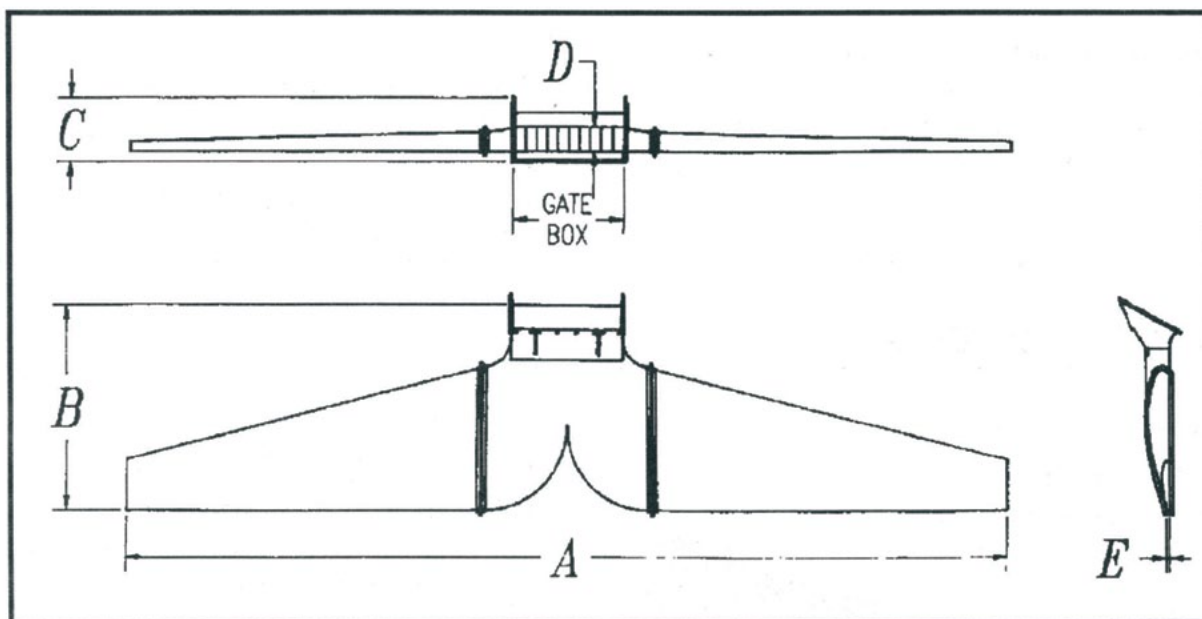


| GATE SIZE | PART NO. | NO. VANES | A    | B  | C     | D    | E    | WT. | COMMENTS                                               |
|-----------|----------|-----------|------|----|-------|------|------|-----|--------------------------------------------------------|
| 25*       | 20181    | 8         | 100  | 46 | 17    | 9.25 | 5    | 85  | Similar to 20160 (fixed vane) with larger intake       |
| 25*       | 20241    | 8         | 100  | 45 | 13    | 5.5  | 4    | 80  | Slimline version of 20160                              |
| 25*       | 22118    | 8         | 100  | 45 | 17.25 | 10.5 | 6.4  | 90  | Deep Throat for 25" Gate Box                           |
| 25*       | 20330    | 8         | 80.5 | 34 | 8.75  | 8.75 | 5    | 80  | High volume tail assembly                              |
| 38        | 22003    | 4         | X    | X  | X     | X    | X    | X   | 4 vane Fire Gate Box spreader                          |
| 38        | 22009    | 8         | X    | X  | X     | X    | X    | 230 | For 10" fire gate box                                  |
| 38*       | 22357    | 8         | 92.5 | 46 | 13.5  | 7.25 | 4.62 | 97  | Slimline for Air Tractor and Ag-Cat                    |
| 38        | 23538    | 10        | 157  | 54 | 15    | 8    | 6.5  | 160 | 10 Vane Deep Throat                                    |
| 38        | 23539    | 10        | 157  | 54 | 12.75 | 4.75 | 3.2  | 160 | 10 Vane Slimline                                       |
| 38*       | 22355    | 8         | 92.5 | 46 | 16    | 9.25 | 5    | 120 | Originally designed for 38" Gate Box on Ag-Cat         |
| 38        | 22358    | 8         | 92.5 | 46 | 16.75 | 9.25 | 6.75 | 144 | Most widely used on Air Tractor                        |
| 38        | 23502    | 10        | 157  | 54 | 13.5  | 7    | 4.5  | 160 | 38" Gate Box version of 10 Vane Spreader, most popular |
| 38*       | 22008    | 8         | 100  | 45 | 17.25 | 10.5 | 6.4  | 130 | Deep Throat Spreader for high volume on Air Tractor    |
| 38        | 23537    | 10        | 157  | 54 | X     | X    | X    | 160 | 10 Vane Deep Throat                                    |
| 41        | 20250    | 8         | 100  | 45 | 15.5  | 8.75 | 6.5  | 125 | Mostly used on the Thrush & M18                        |
| 41        | 23501    | 10        | 157  | 54 | 13.5  | 7    | 4.5  | 160 | Original 10 vane spreader designed for Thrush & M18    |
| 41        | 22007    | 8         | 100  | 45 | 17.25 | 10.5 | 6.4  | 130 | Deep Throat Spreader for high volume on Thrush & M18   |
| 41        | 23506    | 10        | 157  | 54 | 15    | 8    | 6.5  | 160 | 10 Vane Deep Throat                                    |
| 41        | 23533    | 10        | 157  | 54 | XX    | XX   | XX   | 160 | 10 Vane Deep Throat                                    |

\*These are not stock items, call for pricing and availability.

# APPENDIX

## SWATHMASTERS



| GATE BOX | PART NO. | A      | B  | C    | D   | E    | WT. | COMMENTS                       |
|----------|----------|--------|----|------|-----|------|-----|--------------------------------|
| 25       | 54401    | 205    | 40 | 10   | 8   | 1.62 | 126 | Swathmaster                    |
| 31*      | 54336    | 199.62 | 31 | 13.7 | 4.9 | .75  | 81  | Fits Piper Brave only          |
| 38       | 54597    | 218    | 40 | 10   | 8   | 1.62 | 105 | Air Tractor                    |
| 38*      | 54495    | 206    | 38 | 14   | 5   | .75  | 80  | Small Swathmaster              |
| 38       | 54496    | 202    | 37 | 16   | 8   | 1.62 | 85  | Air Tractor                    |
| 38*      | 54497    | 290    | 40 | 10   | 8   | 1.62 | 103 | Air Tractor 802 / 24 foot span |
| 41       | 54499    | 205    | 37 | 10   | 8   | 1.62 | 105 | Thrush                         |

\*These are not stock items, call for pricing and availability.

# APPENDIX

## AIRCRAFT CALIBRATION

**FORMULA:** Acres per minute = 
$$\frac{2 \times \text{swath width} \times \text{miles per hour}}{1,000}$$

The chart below shows the rate (in acres per minute) at which spray or dry material can be applied when swath width and speed of aircraft are known. For swath widths or aircraft speeds other than those shown, interpolate or use combinations of the figures shown. To find the rate of flow in gallons per minute or pounds per minute, multiply the acres per minute by the number of gallons or pounds per acre to be applied.

**Example:** A 100 m.p.h. aircraft has a 40 foot effective swath. Follow the vertical 40 foot column down until the figure opposite 100 m.p.h. is intersected. The aircraft would cover 8.0 acres per minute. If one gallon of spray is to be applied per acre, the aircraft should be calibrated to disperse liquid at the rate of 1 x 8.0 or 8.0 gallons per minute. If 10 pounds of dry material is to be applied per acre, the aircraft should be calibrated to disperse material at the rate of 10 X 8.0 or 80 pounds per minute.

| Speed<br>MPH | 30'<br>Swath | 35'<br>Swath | 40'<br>Swath | 45'<br>Swath | 50'<br>Swath | 75'<br>Swath | 100'<br>Swath | 200'<br>Swath | 300'<br>Swath | 500'<br>Swath |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 75           | 4.5          | 5.2          | 6.0          | 6.7          | 7.5          | 11.2         | 15.0          | 30.0          | 45.0          | 75.0          |
| 80           | 4.8          | 5.6          | 6.4          | 7.2          | 8.0          | 12.0         | 16.0          | 32.0          | 48.0          | 80.0          |
| 85           | 5.1          | 5.9          | 6.8          | 7.6          | 8.5          | 12.7         | 17.0          | 34.0          | 51.0          | 85.0          |
| 90           | 5.4          | 6.3          | 7.2          | 8.1          | 9.0          | 13.5         | 18.0          | 36.0          | 54.0          | 90.0          |
| 95           | 5.7          | 6.6          | 7.6          | 8.5          | 9.5          | 14.2         | 19.0          | 38.0          | 57.0          | 95.0          |
| 100          | 6.0          | 7.0          | 8.0          | 9.0          | 10.0         | 15.0         | 20.0          | 40.0          | 60.0          | 100.0         |
| 110          | 6.6          | 7.7          | 8.8          | 9.9          | 11.0         | 16.5         | 22.0          | 44.0          | 66.0          | 110.0         |
| 120          | 7.2          | 8.4          | 9.6          | 10.8         | 12.0         | 18.0         | 24.0          | 48.0          | 72.0          | 120.0         |
| 130          | 7.8          | 9.1          | 10.4         | 11.7         | 13.0         | 19.5         | 26.0          | 52.0          | 78.0          | 130.0         |
| 140          | 8.4          | 9.8          | 11.2         | 12.6         | 14.0         | 21.0         | 28.0          | 56.0          | 84.0          | 140.0         |
| 150          | 9.0          | 10.5         | 12.0         | 13.5         | 15.0         | 22.5         | 30.0          | 60.0          | 90.0          | 150.0         |

## Computation of Acreage and Materials

**FORMULA:** Acres covered = 
$$\frac{\text{Length of swath in miles} \times \text{width of swath in feet}}{8.25}$$

The number of acres in a swath of given width and length can be determined from the chart below.

To determine the amount of pesticide required, multiply the acres by the desired rate of application.

**Example:** An aircraft with a 40 foot effective swath treats a one mile long strip. To find the number of acres, follow the 40 foot vertical column down until it intersects the one mile line. The answer to the nearest tenth is 4.8 acres. For swath widths other than those shown, interpolate or use combinations of the figures shown.

| Swath<br>Length<br>(Miles) | 30'<br>Swath | 35'<br>Swath | 40'<br>Swath | 45'<br>Swath | 50'<br>Swath | 75'<br>Swath | 100'<br>Swath | 200'<br>Swath | 300'<br>Swath | 500'<br>Swath |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 1/4                        | .9           | 1.1          | 1.2          | 1.4          | 1.5          | 2.3          | 3.0           | 6.1           | 9.1           | 15.2          |
| 1/2                        | 1.8          | 2.1          | 2.4          | 2.7          | 3.0          | 4.5          | 6.1           | 12.1          | 18.2          | 30.3          |
| 3/4                        | 2.7          | 3.2          | 3.6          | 4.1          | 4.6          | 6.8          | 9.1           | 18.2          | 27.3          | 45.4          |
| 1                          | 3.6          | 4.2          | 4.8          | 5.5          | 6.1          | 9.1          | 12.1          | 24.2          | 36.4          | 60.6          |
| 2                          | 7.2          | 8.4          | 9.6          | 10.9         | 12.1         | 18.2         | 24.2          | 48.5          | 72.7          | 121.2         |
| 3                          | 10.8         | 12.6         | 14.5         | 16.4         | 18.2         | 27.3         | 36.4          | 72.7          | 109.1         | 181.8         |
| 4                          | 14.4         | 16.8         | 19.4         | 21.8         | 24.2         | 36.4         | 48.5          | 97.0          | 145.4         | 242.4         |
| 5                          | 18.0         | 21.0         | 24.2         | 27.3         | 30.3         | 45.5         | 60.6          | 121.1         | 181.8         | 303.0         |



# SALES ORDER BY FAX

|            |                      |              |                      |
|------------|----------------------|--------------|----------------------|
| <b>TO:</b> | TRANSLAND            | <b>FROM:</b> | NAME: _____          |
|            | FAX: (940)687-1941   |              | COMPANY: _____       |
|            | ATTN: SALES          |              | TELEPHONE NO.: _____ |
|            | PHONE : 940-687-1100 |              | FAX NO.: _____       |

DATE: \_\_\_\_\_

CUSTOMER NO.: \_\_\_\_\_ CUSTOMER P.O. NO.: \_\_\_\_\_

SHIP VIA: \_\_\_\_\_

AC1014X

SHIPPING ADDRESS:

BILLING ADDRESS:

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

[illegible]





# BOOM ORDER FORM

BY FAX

**TO:** TRANSLAND

FAX : (940) 687-1941

ATTN: SALES

PHONE : 940-687-1100

**FROM:** NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

FAX NO.: \_\_\_\_\_

☐ 1/2"    ☐ MALE    ☐ NPT  
☐ 3/4"    ☐ FEMALE    ☐ Q.D.  
☐ 1"

☐ 1"    ☐ ROUND  
☐ 1-1/2"    ☐ STREAMLINE  
☐ 2"    ☐ AIRFOIL  
☐ 2-1/2"    ☐ TUBING  
☐ 3"

☐ 1"    ☐ MALE    ☐ Q.D.  
☐ 1-1/2"    ☐ FEMALE    ☐ HOSE  
☐ 2"    ☐ FEMALE    ☐ FITTING  
☐ 2-1/2"    ☐ FEMALE    ☐ FITTING  
☐ 3"

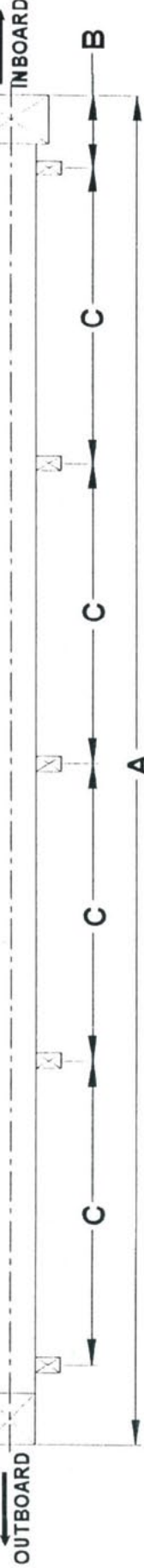
FITTING TYPE

TUBING

FITTING TYPE

OUTBOARD

INBOARD



## NIPPLE REQUIREMENTS

☐ 1/8"    ☐ MALE  
☐ 1/4"    ☐ FEMALE

TOTAL NO. OF NIPPLES: \_\_\_\_\_

NOTE: AIRFOIL IS ONLY AVAILABLE IN 2"

A = OVERALL LENGTH: \_\_\_\_\_

B = INBOARD END TO FIRST FITTING: \_\_\_\_\_

C = DISTANCE CENTER TO CENTER OF FITTINGS: \_\_\_\_\_

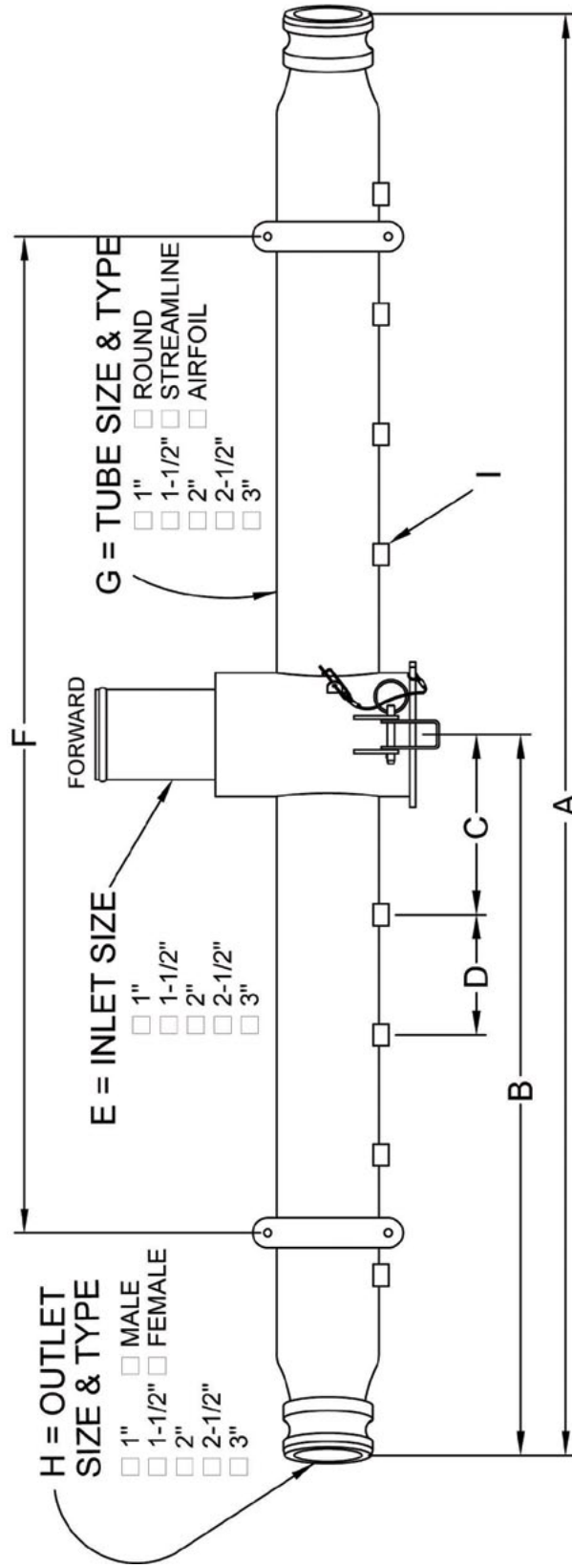




# CENTER BOOM ORDER FORM

BY FAX

|                      |                      |             |
|----------------------|----------------------|-------------|
| <b>TRANSLAND</b>     | <b>FROM:</b>         | NAME: _____ |
| FAX: (940)687-1941   | COMPANY: _____       |             |
| ATTN: SALES          | TELEPHONE NO.: _____ |             |
| PHONE : 940-687-1100 | FAX NO.: _____       |             |



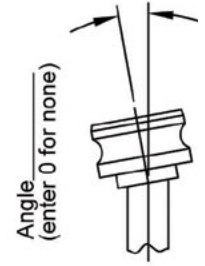
NOTE : AIRFOIL IS ONLY AVAILABLE IN 2"

## I - NIPPLE SIZE AND TYPE

|                               |                                 |
|-------------------------------|---------------------------------|
| <input type="checkbox"/> 1/8" | <input type="checkbox"/> MALE   |
| <input type="checkbox"/> 1/4" | <input type="checkbox"/> FEMALE |

TOTAL NO. OF NIPPLES: \_\_\_\_\_

A = Overall Length  
 B = Distance From Center of Inlet To End of Outlet  
 C = Distance From Center of Inlet to Center of 1st Nipple  
 D = Spacing of Nipples  
 F = Center to Center Distance Between Boom Hangers



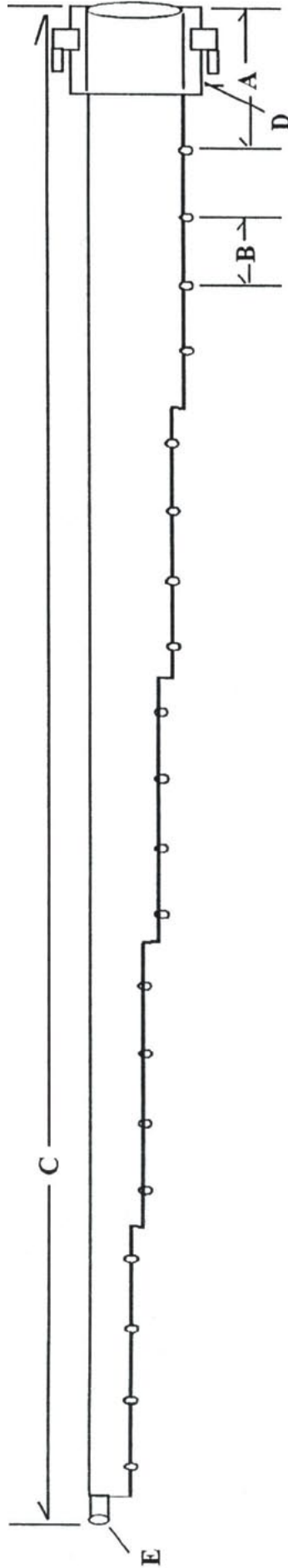




# GRADUATED BOOM ORDER FORM

BY FAX

|                      |                      |             |
|----------------------|----------------------|-------------|
| <b>TO: TRANSLAND</b> | <b>FROM:</b>         | NAME: _____ |
| FAX: (940) 697-1941  | COMPANY: _____       |             |
| ATTN: SALES          | TELEPHONE NO.: _____ |             |
| PHONE: 940-687-1100  | FAX NO.: _____       |             |



A = Distance from inboard end of boom to center of first nipple: \_\_\_\_\_

B = Boom overall length(end to end): \_\_\_\_\_

Number of graduations: \_\_\_\_\_

Starting graduation size: \_\_\_\_\_

Total number of nipples: \_\_\_\_\_

Hanger placements \_\_\_\_\_

Aircraft Type \_\_\_\_\_ Model \_\_\_\_\_

## Tube Section Sizes Available

|       |             |             |         |
|-------|-------------|-------------|---------|
| 58520 | THRUSH      | 2" Standard | 4 Grads |
| 58521 | AIR TRACTOR | 2" Standard | 4 Grads |
| 58524 | AG-CAT      | 2" Standard | 4 Grads |
| 58525 | BRAVE       | 2" Standard | 4 Grads |
| 58543 | CESSNA      | 2" Standard | 4 Grads |
| 58571 | WEATHERLY   | 2" Standard | 4 Grads |
| 58579 | WEATHERLY   | 2-1/2"      | 4 Grads |
| 58519 | THRUSH      | 2-1/2"      | 5 Grads |
| 58572 | WEATHERLY   | 2-1/2"      | 6 Grads |
| 58522 | THRUSH      | 2-1/2"      | 6 Grads |
| 58523 | AIR TRACTOR | 2-1/2"      | 6 Grads |

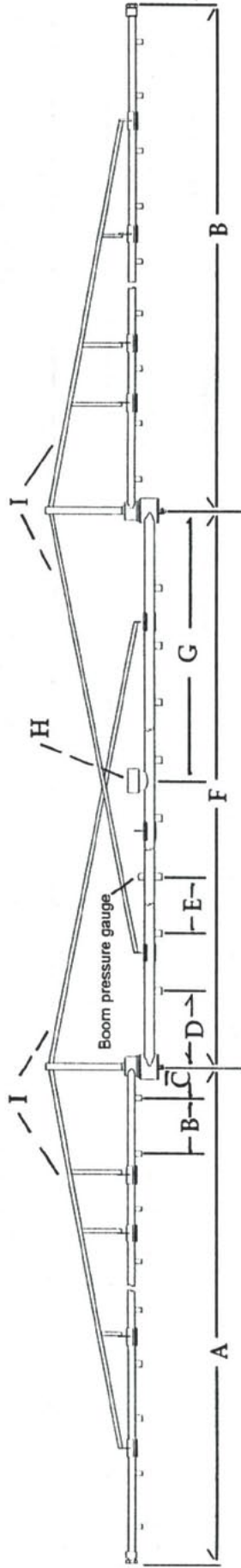




# HELICOPTER BOOM ORDER FORM

BY FAX

|                      |                      |
|----------------------|----------------------|
| <b>TO:</b> TRANSLAND | <b>FROM:</b>         |
| FAX : (940) 687-1941 | NAME: _____          |
| ATTN: SALES          | COMPANY: _____       |
| PHONE: 940-687-1100  | TELEPHONE NO.: _____ |
|                      | FAX NO.: _____       |



## REQUIREMENTS

(AS VIEWED FROM THE PILOT SEAT)

Type of Aircraft \_\_\_\_\_ Graduated Booms(circle 2 or 3 sizes) 1½ 1¼ 1

AL & AR = \_\_\_\_\_ Overall length of outboard booms

B = \_\_\_\_\_ Center to center distance of nipples on outboard booms

C = \_\_\_\_\_ Distance from center post to first nipple on outboard boom

D = \_\_\_\_\_ Distance from center post to first nipple on center boom

E = \_\_\_\_\_ Center to center distance of nipples on center boom

F = \_\_\_\_\_ Overall length of center boom from center to center of posts

G = \_\_\_\_\_ Distance from right hand post to center of inlet

H = \_\_\_\_\_ Inlet size \_\_\_\_\_ Male \_\_\_\_\_ Female

I = Include Stainless Steel tubular braces (at extra charge) \_\_\_\_\_ Yes \_\_\_\_\_ No

## Nipple Requirements

| Type                            | Location                                  |
|---------------------------------|-------------------------------------------|
| <input type="checkbox"/> Male   | <input type="checkbox"/> On Bottom        |
| <input type="checkbox"/> Female | <input type="checkbox"/> On Trailing Edge |

Size  
☐ 1/8"  
☐ 1/4"

Total Number of Nipples \_\_\_\_\_

Standard outboard washout is 1/2" female pipe thread with hex plug, Specify:

☐ Standard ☐ Other \_\_\_\_\_

COMMENTS: \_\_\_\_\_



# Distributors



## Arkansas

American Aviation, Inc.  
P.O. Box 482  
Walnut Ridge AR 72467  
(870) 886-2418

Frost Flying Service, Inc.  
3393 HWY 121 WEST  
Marianna, AR 72360  
(870) 295-6218

South Delta Aviation, Inc.  
124 Phillips 204 RD  
West Helena, AR 72390  
(870) 572-9011

Crowley Ridge Aviation, Inc.  
230 Phillips 204 RD  
West Helena, AR 72390  
(870) 572-9013

## California

Johnston Aircraft Service, Inc.  
P.O. Box 1457  
Tulare, CA 93275  
(559) 686-1794

Valley Air Crafts  
P.O. Box 566  
Tulare, CA 93275  
(559) 686-7401

Jones Flying Service  
P.O. BOX 497  
Biggs, CA 95917  
(530) 868-1222

## Florida

Airparts Company Inc.  
2310 NW 55th Court  
Ft. Lauderdale, FL 33309  
(954) 739-3575

Southeastern Aircraft Sales  
2720 Sneed RD  
Fort Pierce FL 34945  
(772) 461-8924

## Georgia

Southern Field Aviation  
223 Airport Rd  
Americus, GA 31709  
(229) 924-2813

Thrush Aircraft, Inc.  
300 Old Pretoria RD  
Albany GA 31706  
(229) 883 1440

## Idaho

Queen Bee Air Specialties  
136 N Yellowstone Hwy  
Rigby, ID 83442  
(800) 736-7654

R & S Aviation (Gustin)  
P.O. BOX 519  
Lewiston, ID 83501  
(208) 743-1554

## Illinois

Farm Air, Inc  
P.O. BOX 476  
Fairfield, IL 62837  
(618) 842-7121

## Louisiana

Landry Aero  
584 Nighthawk Road  
Morse, LA 70559  
(337) 783-7366

Lyon Flying Service  
P.O. BOX 726  
Welsh, LA 70951 USA  
(337) 734-2594

## Mississippi

Abide AG-Aero Corp.  
P.O. Box 5755  
Greenville, MS 38704  
(662) 378-2205

Air Repair, Inc.  
920 Airport Service RD  
Cleveland, MS 38732  
(662) 846-0228

## Missouri

Mid-Continent Aircraft Corp.  
1601 HWY 84 EAST  
Hayti, MO 63851  
(800) 325-0885

Earl's Flying Service  
1051 Administration Dr.  
Steele, MO 63877  
(573) 695-3842

## Nebraska

Hershey Flying Service  
P.O. BOX 215  
HERSHEY, NE 69143  
(308) 368-5556

## North Carolina

Air Car, Inc.  
P.O. BOX 7668  
Rocky Mount, NC 27804  
(800) 334-9816

## North Dakota

Sky Tractor Supply  
16285 5th ST. NE  
Hillsboro ND 58045  
(800) 437-5319

## Oklahoma

J & C Enterprise  
Airport Road #14  
Thomas OK 73669  
(800) 542-8565

## Texas

Lane Aviation.  
3205 FM 2218  
Rosenberg TX, 77471  
(800) 231-6376

Neal Aircraft, Inc.  
Rt 4, Box 7  
Slaton, TX 79364  
(877) 647-6325

Air Tractor, Inc.  
P.O. BOX 485  
Olney, TX 76374  
(940) 564-5616

George's Aircraft  
11674 Hwy. 70  
Vernon, TX 76384  
(940) 552-5869

## International

### Argentina

Aravia S.A.  
Dorrego 651 (S2600GAI)  
Venado Tuerto  
Santa Fe, Argentina  
54 3462 433540

### Australia

Field Air  
184 Airport Access RD  
Ballarat Airport  
Victoria 3351  
+61 3 5339 1222

Statewide Aviation  
West Side Airport  
Blueberry Rd. Moree NSW 2400  
02 6751 1500

### Canada

Yorkton Aircraft Service Ltd.  
Box 1604 Yorkton  
Saskatchewan, Canada  
800-776-4656

### South Africa

Orsmond Aviation  
P.O. BOX 144  
Bethlehem, Free State, 9700  
South Africa  
+27-(0)-58-303-5261