



D-2/45, D-2/40, D-2/36, & D-40R TIER 3 ENGINE POWERED SPRAYERS



OPERATION & SERVICE

MANUAL

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1945[®]

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CALIBRATION-INFO

CALIBRATION IS KEY.

Pro tips from **ADAPTIV**

COVERAGE RATINGS



RATING 1: No Visible coverage - Spray failure

RATING 2: Inadequate coverage - Limited coverage provides limited results.

RATING 3: Minimum coverage - May provide adequate results, but does not create optimum results.

RATING 4: Quality coverage - Consistent Pattern of spray droplets. Maximize the success of applications. Most desirable coverage.

RATING 5: Maximum coverage is expected on the canopy closest to nozzles, but not desirable in the middle of the tree.

RATING 6: Potential wasted coverage - Complete saturation can cause chemical waste to drop to the ground as waste. Necessary for certain types of treatments.

ADDITIVES



HELPFUL CALIBRATIONS

Simple measurements we use to dial in our sprayers

GALLONS PER MINUTE (GPM)
 $(GPA \times MPH \times ROW \ WIDTH) / 495$

GALLONS PER HOUR (GPH)
 $GPM \times 60$

MILES PER ACRE (MPA)
 $43560 / ROW \ WIDTH / 5280$

EXACT SPEED (MPH)
 $(DISTANCE \times 60) / (SECONDS \times 88)$

ACRES PER HOUR (APH)
 MPH / MPA

ACRES PER ROW (APR)
 $ROW \ WIDTH \times ROW \ LENGTH / 43560$

TREES PER MINUTE
 $(MPH \times 88) / TREE \ SPACING$

MINUTES PER TANK
 $TANK \ SIZE / GPM$

GALLONS PER ROW (GPR)
 $APR \times GPA$

GALLONS PER BLOCK (GPB)
 $ACRES \times GPA$

BAND WIDTH %
 $(ROW \ WIDTH [ft.] \times 12) / BAND \ WIDTH [in.]$

BANDED GALLONS PER ACRE (BGPA)
 $GPA \times BAND \ \%$

TANKS TO FINISH
 $GPB / SPRAYER \ TANK \ SIZE$



ADAPTIV.US
HELLO@ADAPTIV.US
(559) 321-2151

WARRANTY

This Air-O-Fan Engine Drive Sprayer Serial Number _____ is warranted, in so far as it is of Air-O-Fan Products Corporation manufacture, against defects in material and workmanship, under normal use and service, for a period of six months after date of purchase. The obligation under this warranty is limited to repairing or replacing, at the corporation's option without charge, F.O.B. factory, any part of Air-O-Fan Products Corporation manufacture which is proven to have been defective at the time it was shipped, provided immediate written notice is given Air-O-Fan Products Corporation upon discovery of such defect. The corporation shall have the option of requiring the return of the defective material, transportation prepaid, to establish the claim.

Air-O-Fan Products Corporation will not be responsible for labor charges, loss or damage as the result of any defective part. Nor will it make an allowance for labor, transportation or other charges incurred in the replacement or repair of such part. All purchased equipment manufactured by other manufacturers and incorporated into PTO Drive Sprayers by Air-O-Fan Products Corporation, including pumps, gearboxes, PTO shafts, and accessories will not allow any bills for the service, labor or other expenses that have not been previously authorized by them. Parts discovered defective within original manufacturer's warranty must be submitted to an Air-O-Fan Products Corporation agent, charges prepaid, and agent in turn will submit a warranty claim and defective parts direct to Air-O-Fan Products Corporation for processing and credit from original manufacturer.

USE WARRANTY

Air-O-Fan Products Corporation makes no guarantee, warranty or other representation as to the effect of applying materials with this sprayer. The buyer agrees that the manufacturer shall not be responsible or liable for injuries to crop, soil, person or property arising out of the use or handling of the sprayer, whether in accordance with the manufacturer's direction or not, or for damage to the sprayer by the use of corrosive or other materials, or operational conditions not controlled by manufacture, and accepts and uses the sprayer on these conditions.

Please complete the enclosed warranty card and return in to Air-O-Fan Products Corporation in order to validate this warranty.

Warranty void if not registered.

WARRANTY REGISTRATION

AIR-O-FAN PRODUCTS CORPORATION

ENGINE DRIVEN 500, 600, & 1,000 GALLON SPRAYER WARRANTY REGISTRATION FORM & INSPECTION REPORT

This form must be completed by the dealer and signed by both the dealer and customer at the time of delivery.

Customer's name _____ dealer's name _____
Address _____ address _____
City, state _____ City, state _____
Zip _____ zip _____
Phone # _____ Phone # _____
Serial # _____ date _____

DEALER INSPECTION REPORT

- All fittings and hoses free of leaks
- All fasteners tight.
- Fan rotates freely.
- Agitator rotates freely.
- Lubricate machine.
- All nozzles spraying properly.
- Operate by-pass valve.
- Suction filter screen & gasket in place and clamped tight.
- Line filter cap & plug tight.

SAFTY

- Guards and shields installed.
- All decals installed.
- Review operating and safety instructions.

I have thoroughly instructed the buyer on the above described equipment. The review included the Operator's Manual content, equipment care, adjustments, safe operation & warranty policy.

DATE _____ DEALER'S SIGNATURE _____

The above Equipment & Operator's Manual have been received by me & I have been thoroughly as to care, adjustments, safe operation, & applicable warranty policy.

DATE _____ OWNER'S SIGNATURE _____

Air-O-Fan Products Corporation
507 E. Dinuba Ave.
Reedley, Ca 93654



SAFETY

Safety Alert Symbol



This Safety Alert symbol means:

**ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED!**

The safety alert symbol identifies important safety messages on your Air-O-Fan engine drive sprayer and in the manual. When you see this symbol; be alert to the possibility of Personal injury or death. Follow the Instructions In the safety message and never perform maintenance while engine is running or parts are moving.

3 BIG REASONS WHY SAFETY IS IMPORTANT TO YOU!

1. Accidents disable and kill!
2. Accidents cost!
3. Accidents can be avoided!

SIGNAL WORDS

Note the use of signal words such as Danger, Warning, and Caution with the safety message has been Selected using the following guidelines:

DANGER

An immediate and specific hazard which **WILL** result in severe personal injury or death if the proper precautions are not taken.



WARNING

A specific hazard or unsafe practice which **COULD** result in severe personal injury or death if proper precautions are not taken.



CAUTION

Unsafe practices which **COULD** result in personal injury if proper procedures are not taken, or as a reminder of good safety practices.



SAFETY

GREASE HERE

WARNING

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.



WARNING



ROTATING PART HAZARD

To prevent serious injury or death from rotating parts:

1. Close access door before operating.
2. Place all controls in neutral, stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Keep hands, feet, hair and clothing away from moving parts.

WARNING

Filter Must Be Kept Clean To Prevent Damage To Pumps



CAUTION

CHECK WHEEL LUG TORQUE AFTER FIRST 500 REVOLUTIONS. THEN CHECK PERIODICALLY THERE AFTER.

TORQUE SPECIFICATIONS

Q888	75-85 ft./lbs.
Q821	80-90 ft./lbs.
75-8	85-100 ft./lbs.
10,000	250-265 ft./lbs.

CHECK WHEEL BEARINGS QUARTERLY



DANGER



ROTATING PART HAZARD

To prevent serious injury or death from rotating parts:

Keep hands, feet, hair and clothing away from moving parts.

SAFETY

REMOVE CONTROLS FROM TRACTOR BEFORE UNHITCHING



CAUTION

1. Read and understand Operator's Manual before using.
2. Read Chemical manufacturer's WARNINGS, instructions and procedures before starting and follow them exactly.
3. Place all controls in neutral, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
4. Always wear proper eye, breathing and clothing protection.
5. Stay away from chemicals and drift. Keep others away.
6. Install and secure all guards before starting.
7. Keep hands, feet, hair and clothing away from moving parts.
8. Do not allow riders.
9. Keep all chemicals and hydraulic lines, fittings and couplers tight and free of leaks before starting and operating.
10. Review safety instructions with all operators annually.

WARNING! RADIATOR MUST BE KEPT CLEAN TO PREVENT OVERHEATING

NOTE:
CHARGED AIR COOLER
MUST BE REMOVED TO
CLEAN PROPERLY



DANGER



TOXIC CHEMICAL HAZARD

WEAR RUBBER
GLOVES

WEAR APPROVED
RESPIRATOR

DON'T INGEST
CHEMICAL

To prevent serious injury or death:

- | | | |
|--|--|---|
| <ol style="list-style-type: none">1. Do not allow chemical or solution to touch skin. Some can be absorbed through the skin.2. Wear rubber gloves and protective gear at all times. | <ol style="list-style-type: none">1. Stay away from chemical splash and vapor. Keep others away.2. Wear proper respirator when working with chemicals | <ol style="list-style-type: none">1. Chemicals can be toxic.2. If in eyes or mouth, read chemical manufacturers' instructions and follow exactly.3. Seek medical attention immediately.4. A poison control number is normally inside the front cover of your telephone book. |
|--|--|---|



DANGER



ROTATING FAN HAZARD KEEP AWAY

To prevent serious injury or death from rotating fan:

1. Keep guards in place over fan intake and outlet when operating.
2. Place all controls in neutral, stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Keep hands, feet, hair and clothing away from rotating fan.

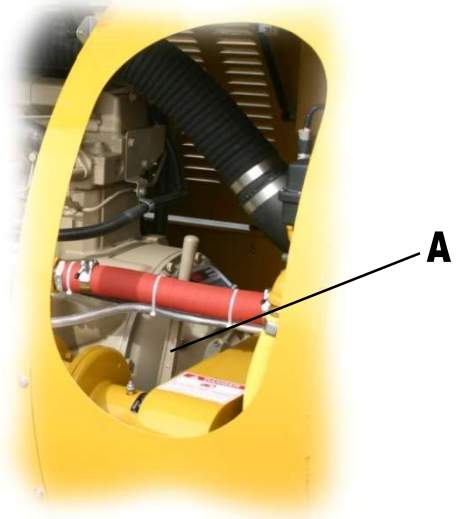
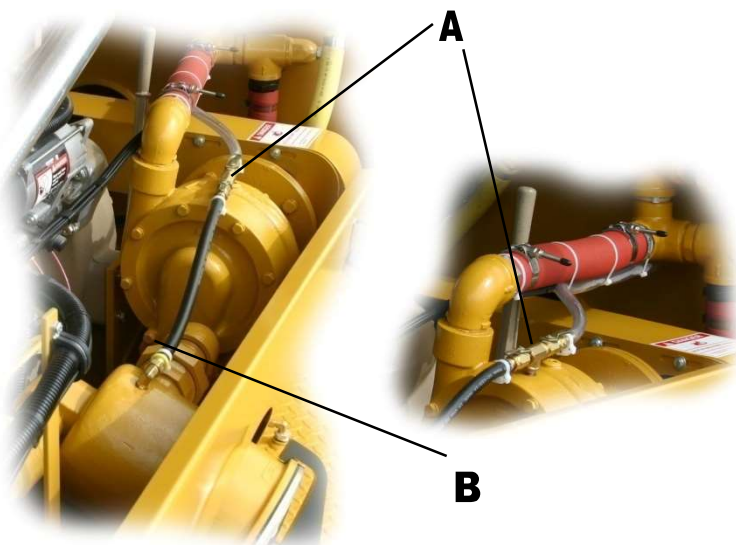
CONTROLS

It is recommended that all operators review this section of the manual to familiarize themselves with the location & function of all machine controls before starting.



STANDARD IN-CAB REMOTE GAUGE BOX

Your new engine driven Air-O-Fan comes standard with whatever spray control valves you prefer. Two electric, hydraulic, or Morse® cable controlled spray valves control pressure to the housing spray manifolds. This system also includes a compact, in-cab remote gauge box. This gauge box houses a Sauer Danfoss® LCD instrument panel which displays engine RPM, engine temperature, oil pressure, battery voltage, and pump pressure. Our gauge box is equipped with an easy access pocket & quick disconnect, Deutsch® connector, which allows for easy removal from the cab. Electric key switch & throttle is a standard feature as well. Extra toggle switch ports are added to accommodate other options such as an electric by-pass valve, or electric spray lights.



PTO CLUTCH

The new engine driven models are equipped with a Twin Disc PTO clutch in the bell housing. All power is transmitted through the clutch. Access to the clutch lever (A) is provided through the opening on the left side of the machine. To engage the clutch, move the lever forward toward the engine. To disengage the clutch, move the lever rearward away from the engine.

PUMP PRIMING

Seen to the left, the pump priming system consists of two inline specialty valves (A), a 1/4" SAE 90° fitting which is plumbed at the highest point on the suction straining filter (B), and hose which leads back to the tank. When machinery is first started and the clutch is engaged, the pump will be active. Close the bypass valve and open the two specialty valves located on the pump (A). This will create a closed system which will allow trapped air in the pump and suction filter to bleed back to the tank. Once the air has been evacuated from the pump, close the two specialty valves and begin to crack the bypass valve while watching the flow of water in the tank basket. Once a strong flow has been achieved priming is complete. Close the bypass valve and begin spraying.

NOTE:

Take special care not to allow the pump to run dry or to cavitate water for any prolonged amount of time without by-passing fluid back to the tank, this will lead to premature failure of the pump seal due to friction. When ran dry, the main seal, being ceramic in nature, will heat up (due to friction from improper use), once cool water from the spray tank is introduced to the pump, this seal will be forced to cool rapidly which in many cases causes the seal to crack and allows water to enter the main pump drive shaft support bearing housing (grease only). This will lead to complete failure of the pump!

PRE-STARTING CHECKS

Make sure engine is off and no parts are moving before any checks or maintenance are done.

Make sure all guarding and safety equipment is in place and not damaged.

1. Check engine oil daily before starting the engine. Always keep oil level at full mark on the dipstick. Add oil as required.

Note: Refer to the John Deere Owner's Manual for proper engine oil service & scheduled maintenance.

2. Check the coolant level when engine is cold. Coolant level should be $\frac{3}{4}$ " below bottom of filler neck.
3. Apply one shot of multi-purpose lubricant at PTO Clutch release bearing grease fitting.

Note: **DO NOT OVER LUBRICATE RELEASE BEARING!**

4. Make sure PTO clutch is disengaged.
5. Pre-cleaner should be clean and free from leaves or debris.
6. Air-cleaner element should be clean & inspected for debris, lid is installed tight with a proper seal.

Note: Refer to air cleaner inspection, maintenance & replacement, page 11.

7. Agitator shaft bushings & packing gland greased.
8. Agitator idler pulley greased.
9. Fan shaft bearings greased (add grease until bearings purge grease around outer bearing surfaces)
10. Remove all leaves, sticks, nuts or any other debris from the engine compartment.

Note: Refer to fan shaft bearing lubrication instructions, page 11.

OPERATION

Starting The Engine

Caution: Before starting the engine in a confined building, install proper outlet exhaust ventilation equipment. Always use safety approved fuel storage & piping.

1. Perform all pre-starting checks outlined in previous section.
2. Pull the PTO Clutch lever rearward (away from engine) to disengage PTO Clutch.
3. On gauge box, turn ignition key clockwise to start engine.
4. Check all gauges for normal engine operation.

Note: Operate engine at or below 1200 RPM with no load for 1-2 minutes. (Slow idle speed is 800-850 RPM from factory). If engine must be left running more than 3-4 minutes, minimum engine speed should be 1200 RPM. DO NOT allow engine to idle longer than 5 minutes.

Stopping the engine

1. Back the engine RPM down to idle (800-850 RPM).
2. Push the PTO Clutch lever rearward (away from the engine) to disengage the clutch.
3. Turn ignition switch to the "off" position to stop the engine.

Note: Before stopping an engine that has been operating at working load, idle the engine at least 2 minutes at 1,000-1200 RPM to cool hot engine components.

MACHINE SETTINGS

1. Engine Speed (RPM)

After the engine has warmed up & the PTO Clutch is engaged, adjust the engine RPM to the desired engine RPM for adequate coverage by bumping the momentary toggle switch on the in-cab gauge box. Engine RPM's will adjust in increments of 37 RPM's.

Note: *Proper engine operation range is 1600 – 2200 RPM. Running lower than 1600 RPM will cause damage to the drivetrain. DO NOT VARY ENGINE RPM WITH FANS ENGAGED.*

Chemical Delivery

Depending upon which spray valve feature was chosen for your machine (electric, hydraulic, or cable controls), the delivery valves can be actuated by the flip of a switch on the monitor (electric), the pull of your hydraulic in-cab tractor controls (hydraulic), or a pull of the Morse® cable control box lever toward the sprayer to actuate the valves. The delivery valve in the open position will allow fluid to travel under pressure to the spray manifold located at the rear of the machine on the fan housing. Fluid continues under pressure through the adjustable vanes & out the spray nozzles.

Note #1: *Chemical calibrations may vary due to plugged or worn nozzles. Inspect all nozzles in the open position to insure spray pattern is not deformed.*

Note #2: *Chemical pressure may vary due to a suction leak, belt slippage, or variations of engine RPM's. Keep the by-pass return valve in the closed position. Keep suction & pressure discharge filter screens clean & make sure all gaskets are replaced if necessary.*

2. Adjustable vane setting

Adjustable vanes, located in the fan housing, are designed to allow the operator to control the air & chemical discharge to assure the best possible coverage in varying tree heights and configurations. To adjust simply push up or down to desired location.

Note: *Do not apply maximum force when adjusting the vane. If the vane is tight, loosen the vane bolt in the housing.*

TROUBLESHOOTING

Note: *If you have a problem or question not covered in this section, please call your local Air-O-Fan Dealer. Before you call, please have this operator's manual & the serial number from your machine ready for reference.*

No Spray Solution comes Through the Nozzles

Possible Cause: Tank is empty, or suction valve is closed. Pressure strainers are plugged. Suction strainer is plugged. Pump drive belt is slipping.

Insufficient Spray Solution from Nozzles

Possible Cause: By-pass valve is open. Strainers are plugged. Plumbing is plugged. Suction filter gasket is leaking. Nozzles are plugged.

Pressure Drops Rapidly When Valves are Open

Possible Cause: Pump belt is slipping. There is a possible collapsed suction line between the suction strainer & pump. Nozzle calibration exceeds pump volume.

PTO Clutch is Slipping

Possible Cause: Friction clutch is worn or needs adjustment, or there is grease on linings.

Vibration Coming from Rear of Sprayer

Possible Solution: Clean fans. Check fan shaft bearings for grease & wear. Check driveline universal cross joints for grease & wear.

Agitator Leaks

Possible Solution: Tighten packing sleeve nuts on the rear packing gland. Check shaft for wear. Replace seal kit.

FAN & AGITATOR MAINTENANCE

1. FAN MAINTENANCE PREVENTS DAMAGE TO YOUR SPRAYER!

- a. Clean fans daily! Keep fans clean of chemical build-up & dirt.
- b. Clean fan guard daily! Leaves & other debris will cause a reduction in sprayer performance.
- c. If a vibration occurs, shut it down! Stop the spray immediately, turn the engine off, clean fans, & grease the fan bearings. If vibration continues, contact your local Air-O-Fan Products dealer for service.
- d. The fans are installed on the fan shaft with a tapered bushing from the factory. If the fan moves on the shaft, discontinue use and contact your local Air-O-Fan Dealer immediately.

Note #1: *A dirty or worn fan can cause vibration. Worn bearings or improper service of the bearings & driveshaft U-joints may also contribute to vibration. Sustained periods of vibration can cause serious damage. If cleaning does not remedy vibration, contact your local Air-O-Fan Dealer immediately for service.*

Note #2: *Replacing fan(s) or bushing(s) on the shaft is warranted only when installed by a trained, authorized Air-O-Fan Dealer.*

FAN SHAFT BEARING LUBRICATION INSTRUCTIONS

2. FAN BEARING MAINTENANCE

- a. Type E pillow block roller bearings, should receive grease DAILY (every 8-10 hours)!
- b. Rotate fan shaft while you grease the bearings.
- c. Be sure that an ample amount of grease is added to the bearing slowly until it purges from around the outer bearing surface.
- d. SCM 4 bolt flange, self-aligning bearings (center support bearing) should be greased DAILY (every 8-10 hours).
- e. Be sure that an ample amount of grease is added to the bearing slowly until it purges at the shaft.

Note: *SCM flange bearings take much less grease than Type E pillow block roller bearings.*

AGITATOR SHAFT LUBRICATION INSTRUCTIONS

3. AGITATOR MAINTENANCE

- a. Front support bushing requires grease daily
- b. Rear packing gland has 2 grease points which require grease daily.
- c. Agitator Idler pulley requires grease twice daily (minimum)!
- d. Agitator support shaft bearing requires grease daily (some models may not apply).

PRE-CLEANER & AIR-CLEANER

4. PRE-CLEANER & AIR-CLEANER INSPECTION, MAINTENANCE, & REPLACEMENT

- a. Inspect pre-cleaner for debris, pre-cleaner must be clean for proper air intake.
- b. Remove air-cleaner canister cover & primary element from canister.
- c. Thoroughly clean all dirt from inside the air-cleaner canister.
- d. Remove secondary element & immediately install a new element so dirt does not enter the air intake system.
- e. If air cleaner canister is equipped with a dust unloader valve, squeeze valve tip to release any trapped dirt particles.

Important: *Remove secondary element only if it is to be replaced. Do not attempt to clean secondary element.*

PRE-CLEANER & AIR-CLEANER

5. CLEANING PRIMARY ELEMENT

- Gently pat sides of element to loosen dirt. Do not tap element against a hard surface.

Important: Do not use compressed air of any form to clean filtration.

Note: If primary element is still full of dirt after a gentle cleaning, replace element.

CENTRIFUGAL PUMP SERVICE

Make sure engine is off and no parts are moving before any checks or maintenance are done.

Mechanical Seal Lubrication

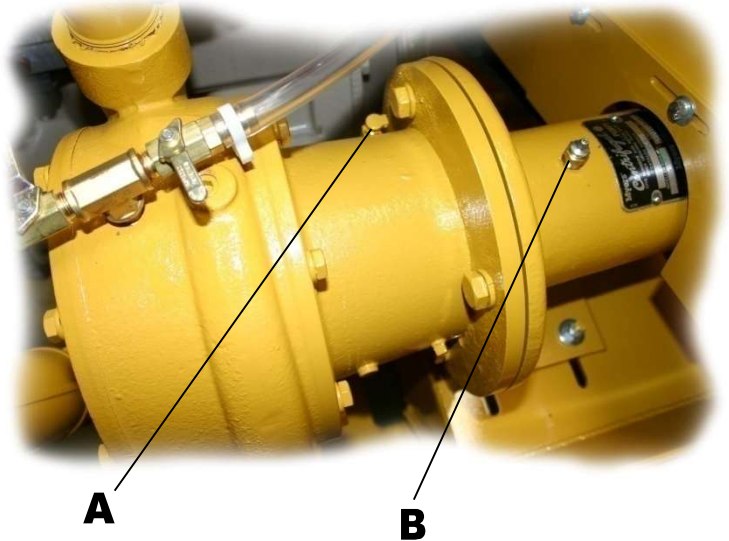
The pump is provided with an oil chamber which lubricates the seal face of the mechanical seal. The oil level should be checked every 40 hours. Fill the cavity through the oil cup with SAE30 oil (A).

Bearing lubrication

Grease the support bearing cavity through the grease zerk at the top of the support bearing housing on the pump (B). Remove pipe plug & fill no more than half full. Dolium R or equivalent grease must be used.

Freezing

Care should be taken to prevent pump from freezing during cold weather. Three individual chambers must be drained. These chambers include the suction (seal bracket) & the first & second stage impeller chambers.



PTO CLUTCH ADJUSTMENT

ADJUSTMENT

Caution: Never attempt to service the PTO Clutch while it is in operation. Loose clothing could become entangled in moving components; keep clothing tight against body. Use extreme care when working around the PTO Clutch.

- If the clutch does not pull, heats, or operating lever jumps out, the clutch must be adjusted.

Important: Improper adjustment of the PTO Clutch may shorten the clutch life. Make sure adjustments are made properly.

- If adjustments are needed, disengage clutch and stop engine. Remove cover plate from clutch housing.

- Turn the clutch shaft assembly until the adjusting lock pin (A) can be reached. Disengage the adjusting lock pin & turn the adjusting ring (B) to the right (clockwise), until the operating lever shaft requires 1,540 inch lbs. of torque to engage, or divide 1,540 by the lever length to obtain pounds pull at the end of the lever.



PTO CLUTCH LUBRICATION

LUBRICATION

Twin Disc

(Daily) Apply 1cc. of NLGI Grade 2 grease, 300°f minimum operating temp (one shot from a grease gun) at Throwout Collar grease fitting (A) and before startup to Main Bearings grease fitting (B) and then every 8-10 hours operation thereafter for each.

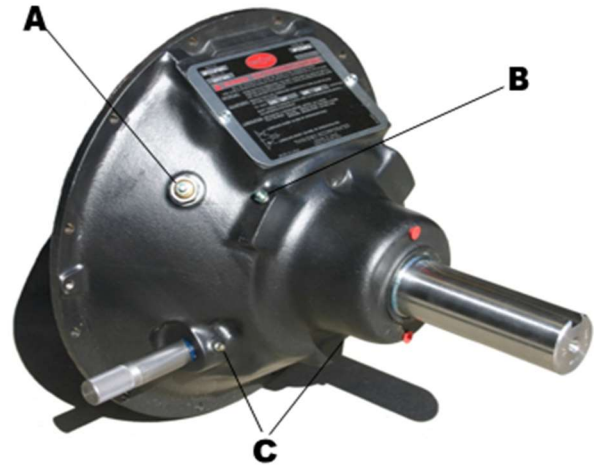
(100 hours) Apply 1cc. of NLGI Grade 2 grease, 300°f minimum operating temp (one shot from a grease gun) at Operating Shaft grease fitting (C).

Logan Clutch

Every 100 hours

Apply 1oz./28 grams of high heat temperature, lithium #2 grease, 200°f minimum operating temp at the Shaft bearings fitting and 1oz./28 grams of fresh Mobile SHC100 at the Clutch fitting. Also, see the supplied Logan Hydraulic Clutch Booklet for additional maintenance information.

DO NOT OVER GREASE!



Make sure engine is not running and no parts are moving.

LUBRICATION & SERVICE

Daily:

- ✓ Check water level in radiator, clean radiator cores (both front & rear).
- ✓ Check air filters (refer to air cleaner inspection maintenance & replacement section, p. 11-12).
- ✓ Clean fan & fan guard.
- ✓ Grease agitator shaft (twice daily).
- ✓ Grease agitator idler (twice daily) if applicable.
- ✓ Check engine oil.
- ✓ Check fuel filters.
- ✓ Grease PTO clutch release bearings (refer to PTO clutch adjustment & lubrication, p. 13).
- ✓ Check dust unloader valve on air cleaner.
- ✓ Models: D-40R, D-2/36, D-2/45 grease fan bearings until they purge grease. Model: D-2/40 Grease fan bearings till
- ✓ Clean & inspect suction & pressure strainers.

Every 40 hrs:

- ✓ Check pump drive belt for tightness.
- ✓ Check water level in battery.
- ✓ Grease driveline U-joint bearings.
- ✓ Lubricate centrifugal pump oil chamber (SAE30 oil).

Every 100 hrs:

- ✓ Grease PTO clutch shaft bearing

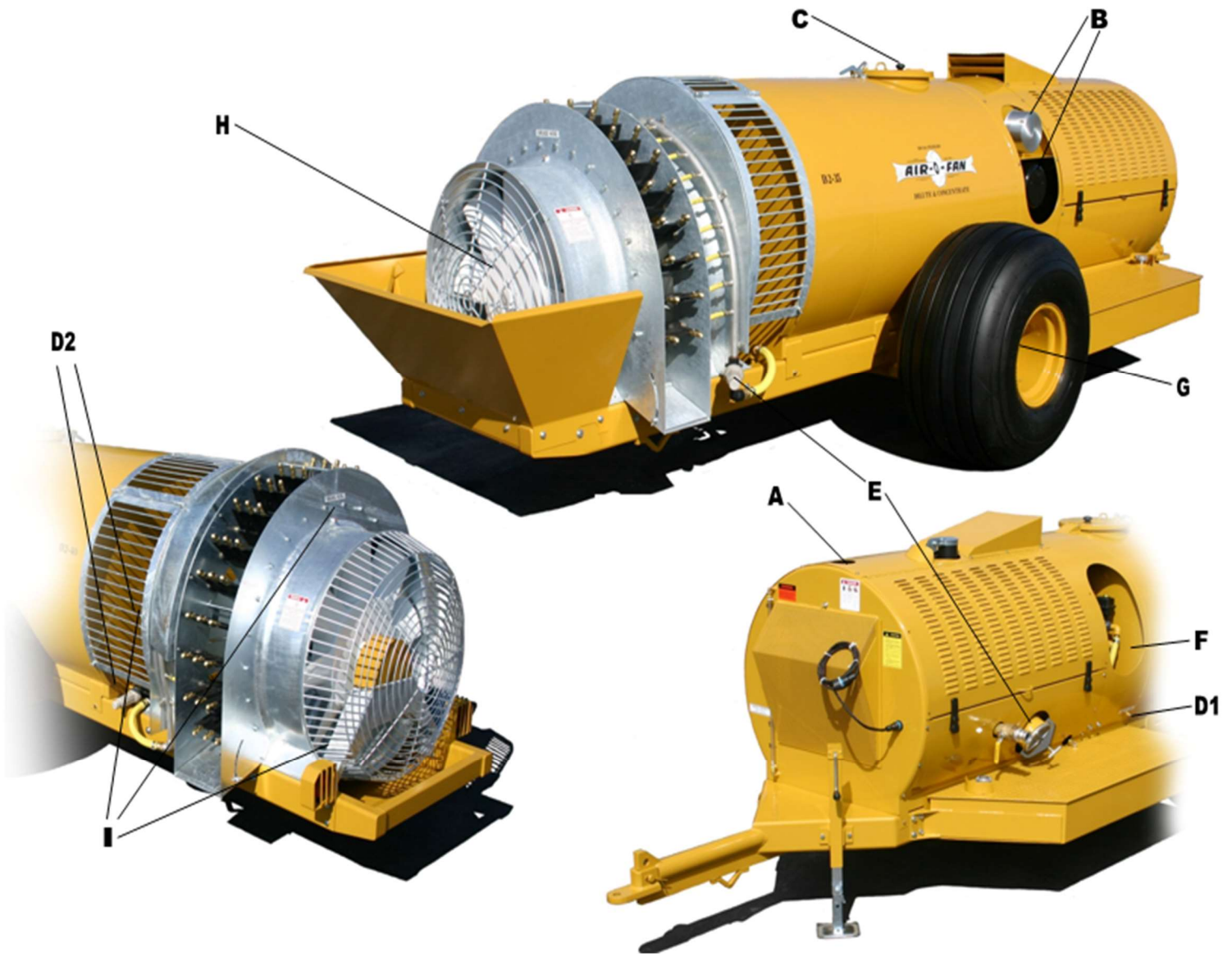
Every 250 hrs:

- ✓ Change engine oil & replace filter.
- ✓ Service battery.
- ✓ Check PTO clutch adjustment

Annually:

- ✓ Remove, clean, & repack wheel bearings. **Additional service is recommended** depending on usage & conditions.

SERVICE & LUBRICATION POINTS



Daily Checkpoints:

- A. Check water level in radiator, clean radiator.
- B. Check pre-cleaner & air filters
- C. Inspect & clean tank vent
- D. Grease agitator front bushing (D1), rear gland & Idler (D2, twice daily).
- E. Inspect & clean suction & delivery strainers
- F. Grease PTO clutch release bearing
- G. Repack wheel bearings (annually)
- H. Clean fans, vanes & guarding
- I. Models: D-40R, D-2/36, D-2/45, Grease fan bearings until bearings purge grease.
Model: D-2/40 Grease fan bearings until you feel resistance

Additional maintenance after 40 hours:

1. Check pump drive belt & agitator belts for tightness.
2. Check water level in battery.
3. Grease universal drive shaft cross bearings.
4. Check oil & grease levels in centrifugal pump.

Note: Failure to keep tank vent clean & free from obstruction to dirt, foreign objects, ice, etc., will cause severe damage to the tank.

DP 200 - SET CONTRAST



AIR-O-FAN Start Up Screen
 Display service maintenance and pre-start checks



MAIN OPERATION SCREEN
 View engine diagnosis or pump pressure



MAIN MENU
 Navigate screens to view or adjust engine settings



EDIT: Adjust Screen Values
TOGGLE: Select Backlight or Contrast
MENU: Return to Main Menu

DP 200 - ENGINE HOURS



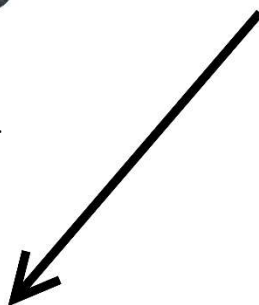
AIR-O-FAN Start Up Screen

Display service maintenance and pre-start checks



MAIN OPERATION SCREEN

View engine diagnosis or pump pressure



MAIN MENU

Navigate screens to view or adjust engine settings



RESET: Reset values on this screen
TOGGLE: Select Backlight or Contrast
MENU: Return to Main Menu

Note:

Every 10 engine hours a green light will appear on the left side as a maintenance reminder. Hold the Reset button for 2 seconds to clear the light.

DP 200 - ENGINE FAULTS



AIR-O-FAN Start Up Screen

Display service maintenance and pre-start checks



MAIN OPERATION SCREEN

View engine diagnosis or pump pressure



MAIN MENU

Navigate screens to view or adjust engine settings



SELECT: Select Fault Code

DELETE: Delete Selected Fault Code

MENU: Return to Main Menu

DP 200 - ENGINE HISTORY



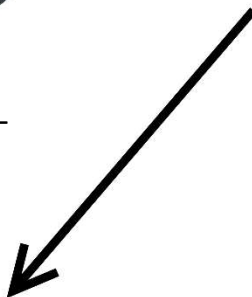
AIR-O-FAN Start Up Screen

Display service maintenance and pre-start checks



MAIN OPERATION SCREEN

View engine diagnosis or pump pressure



MAIN MENU

Navigate screens to view or adjust engine settings



SELECT: Select History Item

DELETE: Delete Selected History Item

MENU: Return to Main Menu

DP 200 - ENGINE



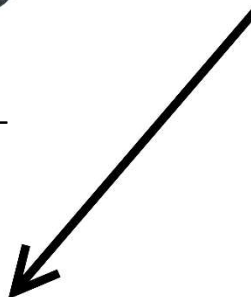
AIR-O-FAN Start Up Screen

Display service maintenance and pre-start checks



MAIN OPERATION SCREEN

View engine diagnosis or pump pressure



MAIN MENU

Navigate screens to view or adjust engine settings



DELETE ALL: Delete All Engine Data
MENU: Return to Main Menu

DP 200 - LANGUAGE



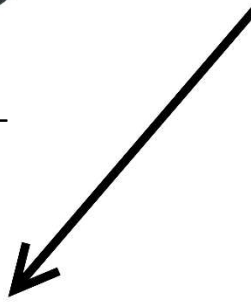
AIR-O-FAN Start Up Screen

Display service maintenance and pre-start checks



MAIN OPERATION SCREEN

View engine diagnosis or pump pressure



MAIN MENU

Navigate screens to view or adjust engine settings



ENGLISH: English Language

HISPANOL: Spanish Language

UNITS: U.S. Standard or Metric

MENU: Return to Main Menu

DP 200 - TROUBLESHOOT

The DP 200 screen may appear blank if the contrast has been altered. The following steps can correct this issue. After powering the unit on wait for 30 seconds.



MAIN OPERATION SCREEN

1) Press button #1



MAIN Menu

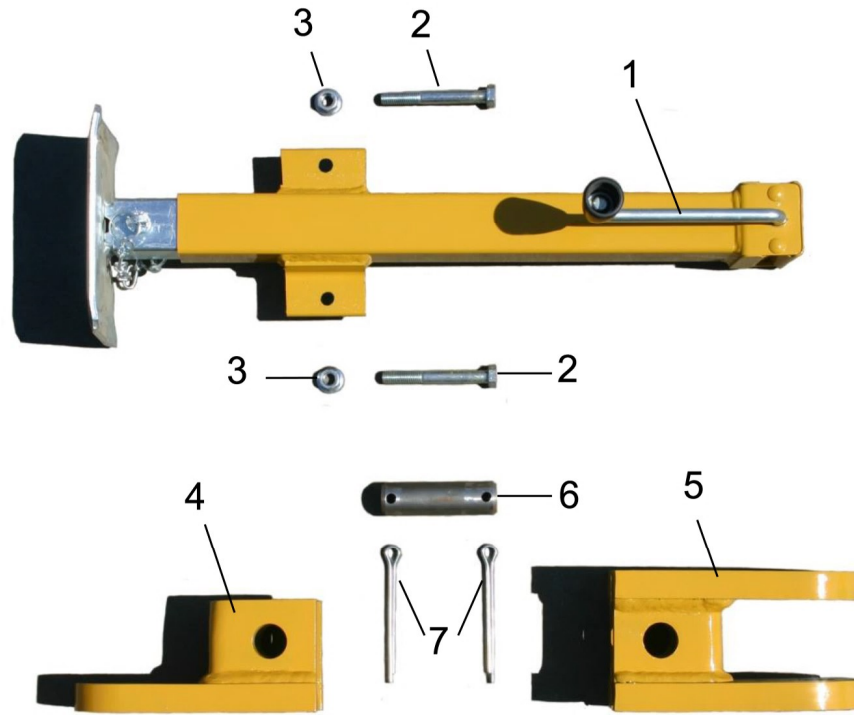
1) Press button #1
2) Press button #2



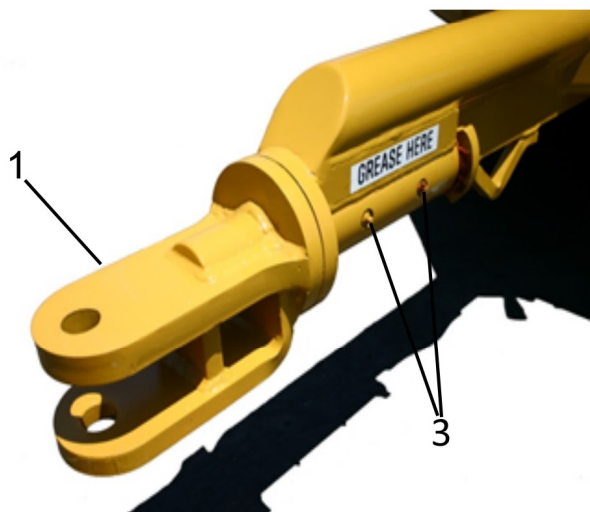
EDIT CONTRAST

1) Press and hold button #1 for 20 seconds
-If screen does not appear then-
2) Press and hold button #2 for 20 seconds
-If screen does not appear then-
3) Press button #1 10 times
press button #3
Press and hold button #1 for 20 seconds
-If screen does not appear then-
4) Press and hold button #2 for 20 seconds

JACK & HITCH ASSEMBLY



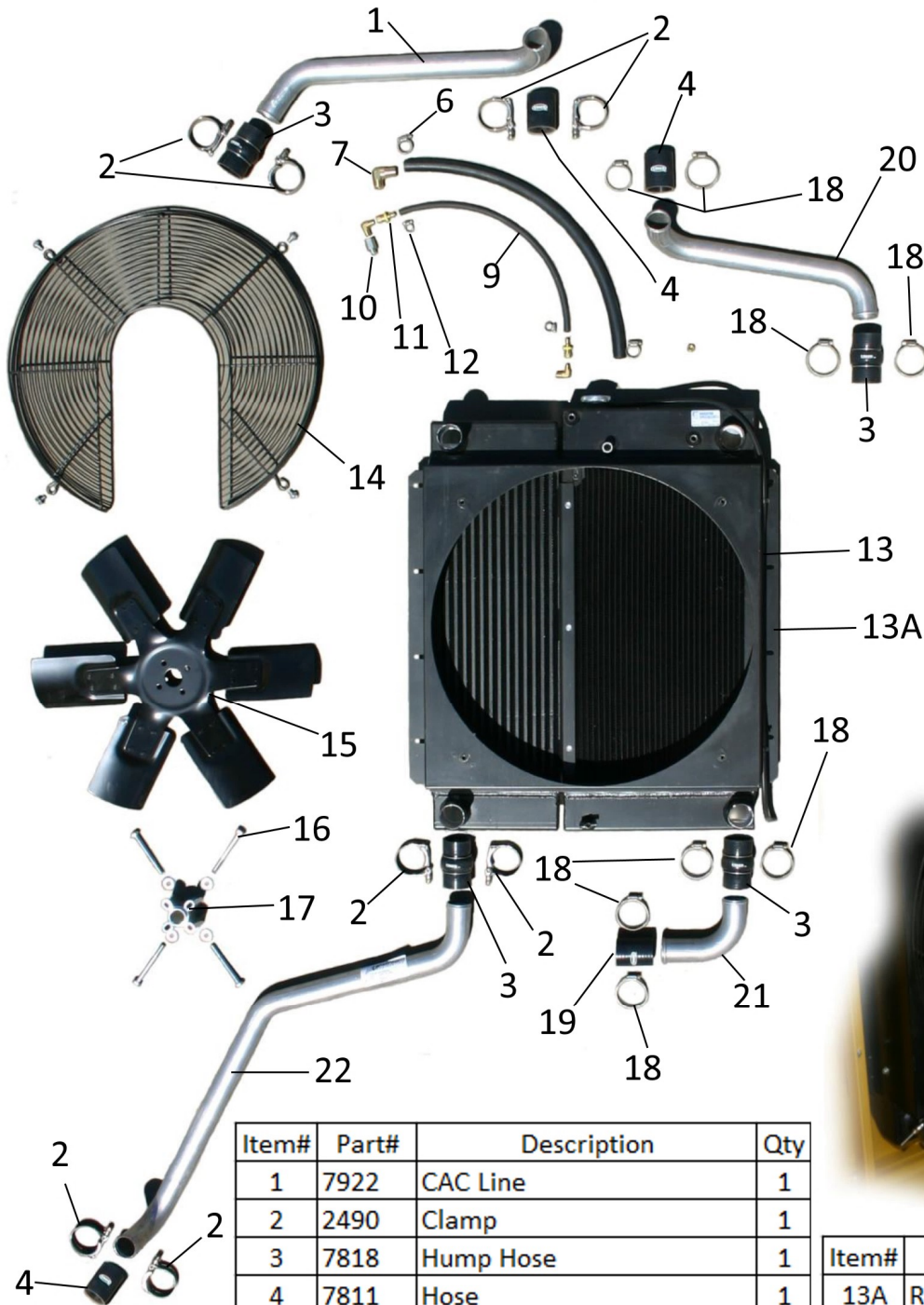
Item#	Part#	Description	Qty
1	7000	JACK	1
2	2304	Bolt, ½" x 4"	2
3	2294	Nut, ½" Flange	2
4	7001	Hitch Block, Single Lip (Male)	1
5	202	Hitch Block, Double Lip (Female)	1
6	7002	Pin, Hitch Block	1
7	7003	Pin, Cotter	2



Item#	Part#	Description	Qty
1	7630	Hitch Assembly, Double Lip Swivel	1
2	7630A	Hitch Assembly, Single Lip Swivel	1
3	7631	Zerk, grease	2

RADIATOR ASSEMBLY

***Applies to the D-2/40, D-2/36, & D-40R models only!**

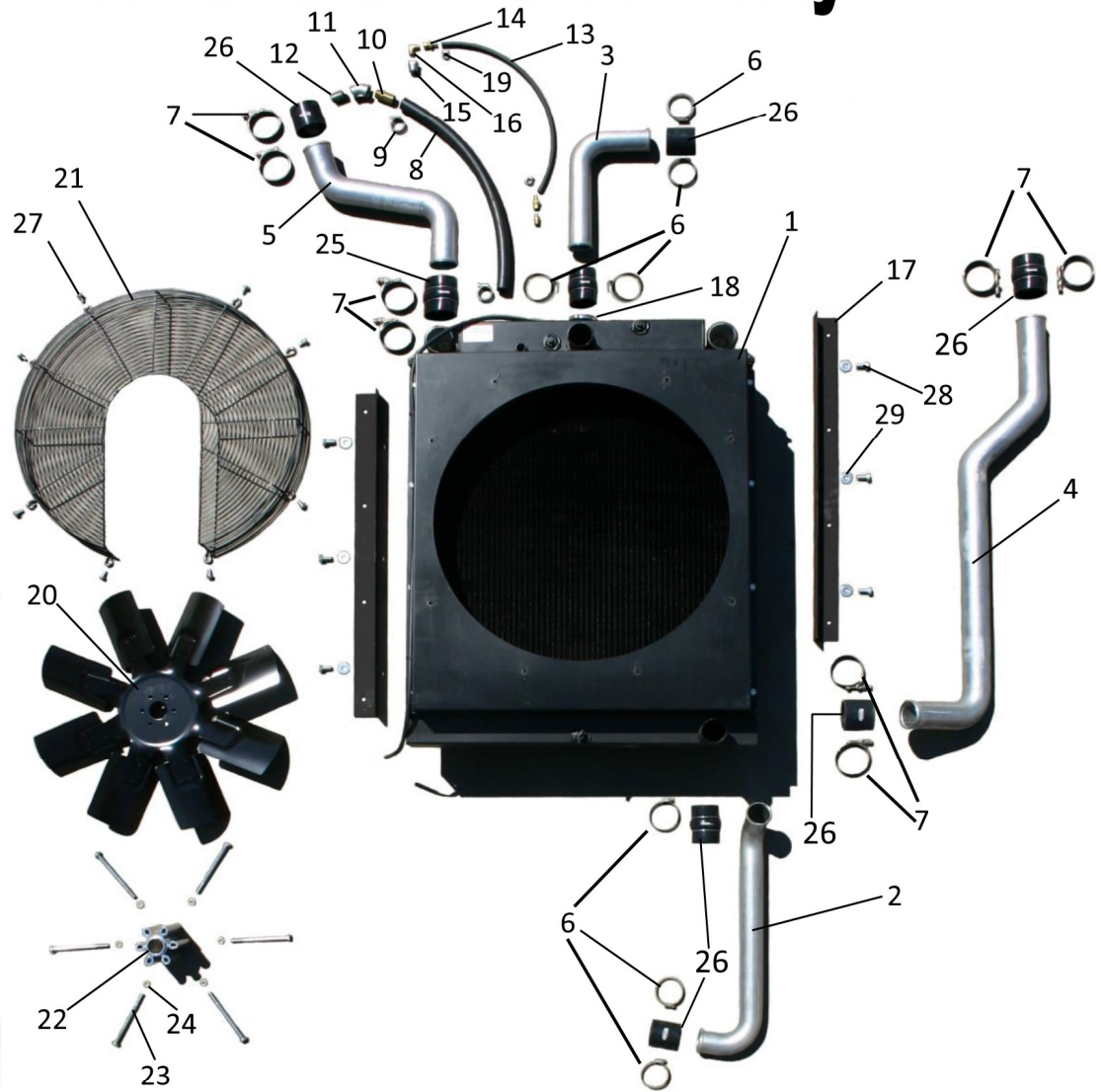


Item#	Part#	Description	Qty
1	7922	CAC Line	1
2	2490	Clamp	1
3	7818	Hump Hose	1
4	7811	Hose	1
5	7633	Radiator Cap	1
6	2453A	Clamp	1
7	5796	Hose Barb	1
8	6272	Hose	1
9	7808	Hose	1
10	5032	Fitting	1
11	5036	Swivel Fitting	1
12	2450	Clamp	1
13	RS7029	Radiator D2-/40	1

Item#	Part#	Description	Qty
13A	RS7236	Radiator D-2/36 And D-40R	1
14	7921	Inner Radiator Fan Guard	1
15	RE90891	Fan	1
16	7816	Bolt	1
17	7815	Spacer	1
18	2461	Clamp	1
19	7820	Hose	1
20	7923	CAC Line	1
21	7924	CAC Line	1
22	7925	CAC Line	1

RADIATOR ASSEMBLY

***Applies to the D-2/45 model only!**



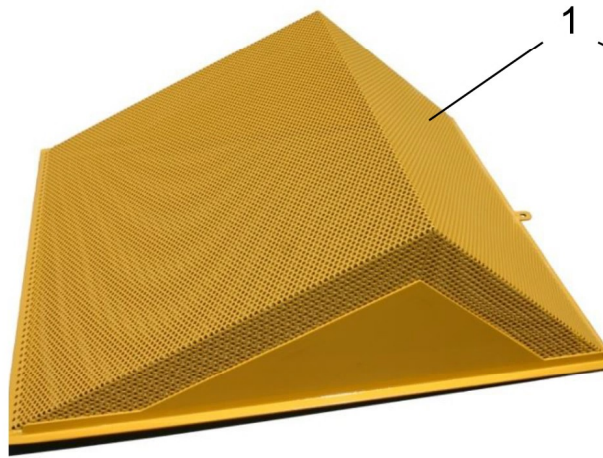
Item#	Part#	Description	Qty
1	RS6686	Radiator	1
2	ART6686B01	CAC Tube	1
3	ART6686B02	CAC Tube	1
4	ART6686D02	CAC Tube	1
5	ART6686C01	CAC Tube	1
6	2641	Clamp	1
7	2490	Clamp	1
8	7806	Hose	1
9	2455	Clamp	1
10	7807	Hose Barb	1

Item#	Part#	Description	Qty
11	2876	Elbow	1
12	2828	Close Nipple	1
13	7808	Hose	1
14	5036	Fitting	1
15	2796	Bushing	1
16	5071	Fitting	1
17	7809	Radiator Bracket	1
18	7633	Radiator Clamp	1
19	2450	Clamp	1
20	7813	Fan	1

Item#	Part#	Description	Qty
21	7814	Fan Board	1
22	7815	Fan Spacer	1
23	7816	Bolt	1
24	7817	Lock Washer	1
25	7811	Hose	1
26	7818	Hose	1
27	7819	Shoulder Bolt	1
28	2255	Bolt	1
29	2251	Lock Washer	1

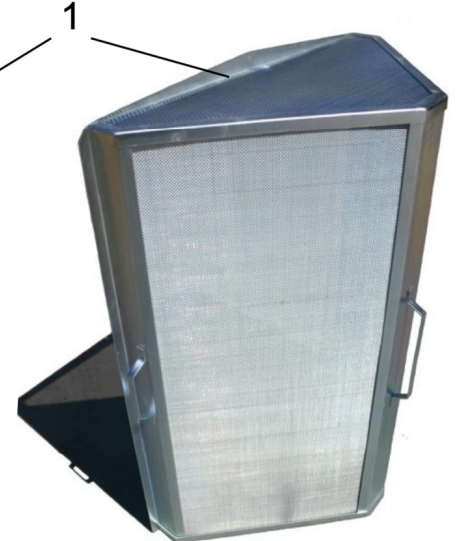
RADIATOR GUARD ASSEMBLY

***Applies to the D-2/40, D-2/36, & D-40R models only!**



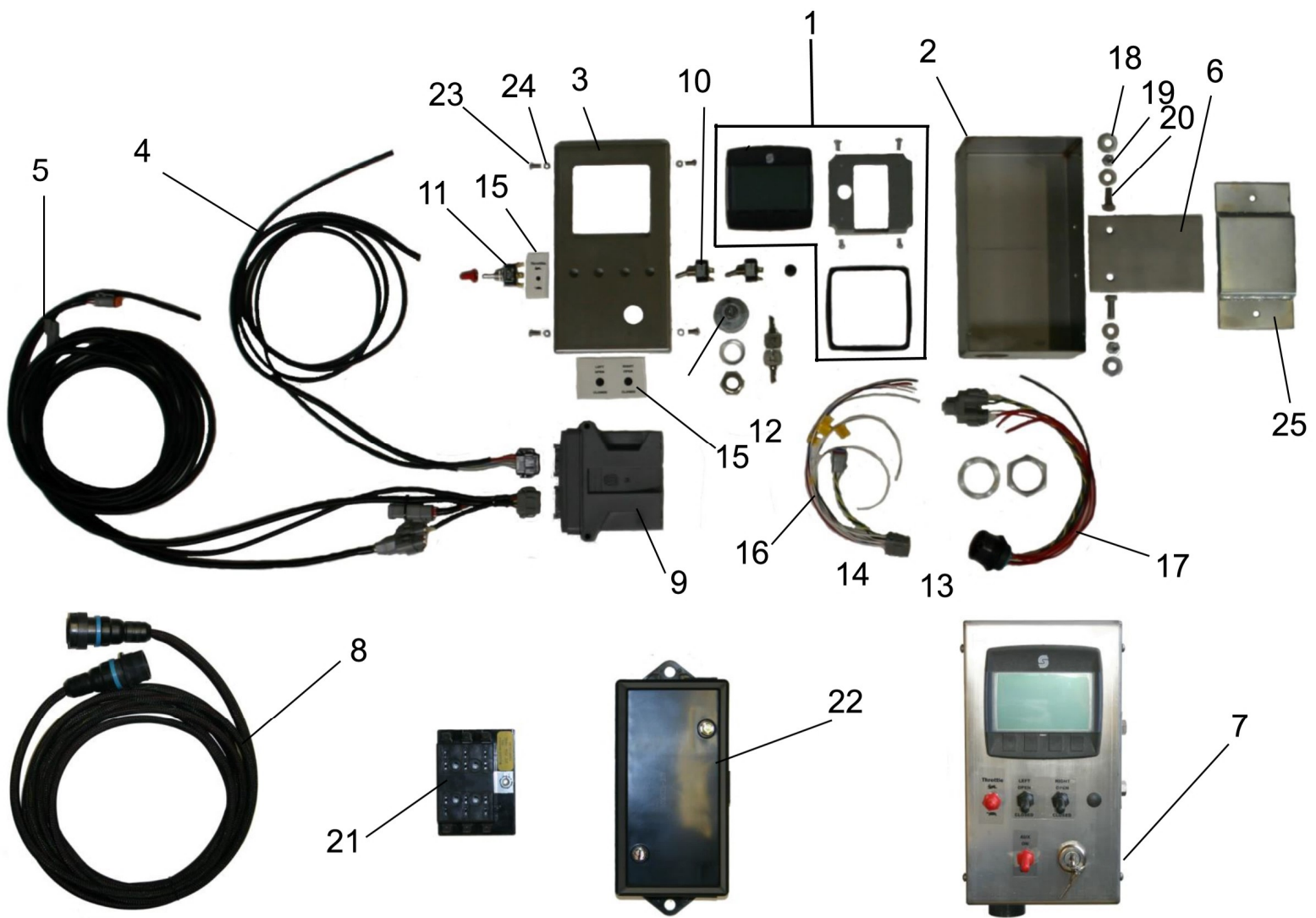
Item#	Part#	Description	Qty
1	7638	Front Radiator Shroud	1
2	2251	3/8" LW	1
3	2371	3/8" Wing Nut	1

***Applies to the D-2/45 model only!**



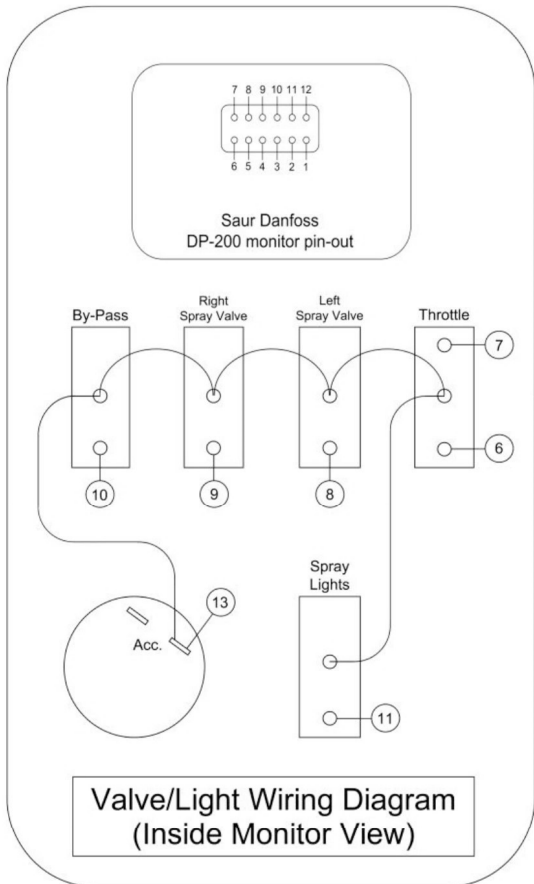
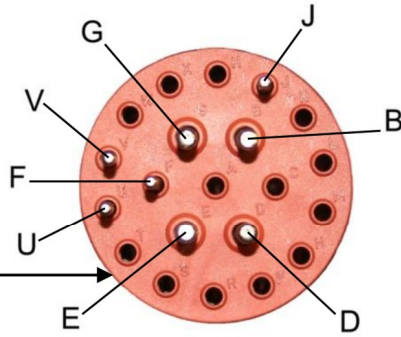
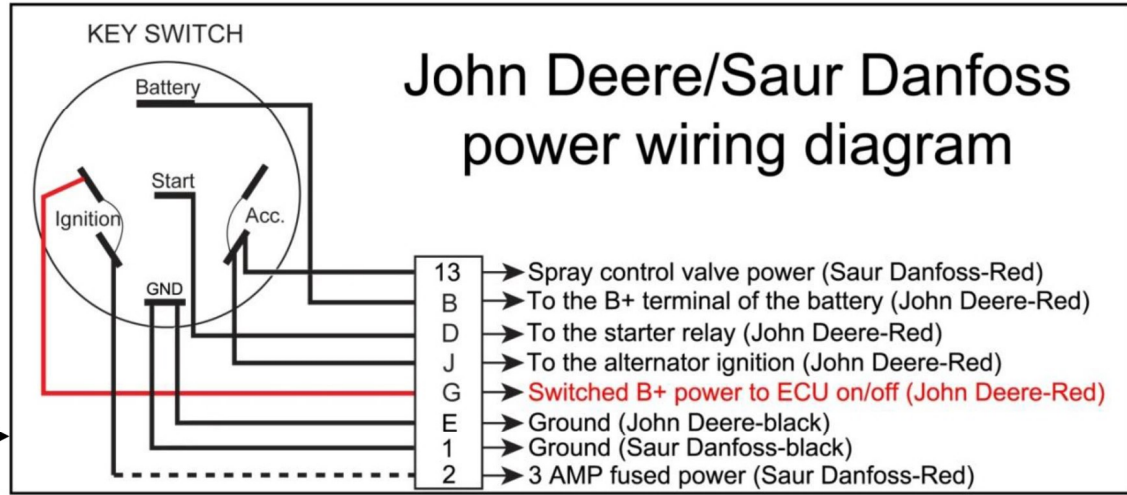
Item#	Part#	Description	Qty
1	7638A	D-2/45 Front Radiator Shroud	1
2	2251	3/8" LW	1
3	2371	3/8" Wing Nut	1

IN-CAB CONTROL BOX



Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	DP200	Monitor	1	13	CH2411	Nut	1
2	742E	Case	1	14	CH2414-001	Washer	1
3	7422	Lid	1	15	6069	Control Panel Decal Kit	1
4	EHIB2	Harness	1	16	BH108	Control Box Harness	1
5	EH174	Harness	1	17	BH110	Control Box Harness	1
6	741E	Mount Plate	1	18	2936	Flat Washer	1
7	CPA200	Control Assembly	1	19	2939	Nut	1
8	CH144	Control Harness	1	20	2931	Bolt	1
9	DP302A	Expansion Module	1	21	O5025	Fuse Block	1
10	TG6260	Toggle Switch	1	22	JB3100	Junction Box	1
11	TG6566	Toggle Switch	1	23	2900	Screw	1
12	407A	Key Switch	1	24	2907	Lock Washer	1
				25	740	Bracket	1

CONTROL BOX WIRING DIAGRAM



John Deere Wiring Harness

B.....Battery (red wire)
 G.....Ignition/Computer (red wire)
 D.....Starter (red wire)
 E.....Ground (black wire)
 J.....Alternator (red wire)
 F.....CAN Shield (black/yellow wire)
 U.....CAN Low (green wire)
 V.....CAN High (yellow wire)

Saur Danfoss Wiring Harness

1.....Ground (black wire)
 2.....Ignition Power 3 AMP fused (red wire)
 3.....CAN High (yellow wire)
 4.....CAN Low (green wire)
 5.....CAN Shield (black/yellow wire)
 6.....RPM Up (white wire)
 7.....RPM Down (black/white wire)
 8.....Left Spray Valve (green/white wire)
 9.....Right Spray Valve (red/white wire)
 10.....By-Pass Valve (blue/white wire)
 11.....Spray Lights (orange wire)
 12.....Open (unused pin)
 13.....Valve & Light Power (red wire)

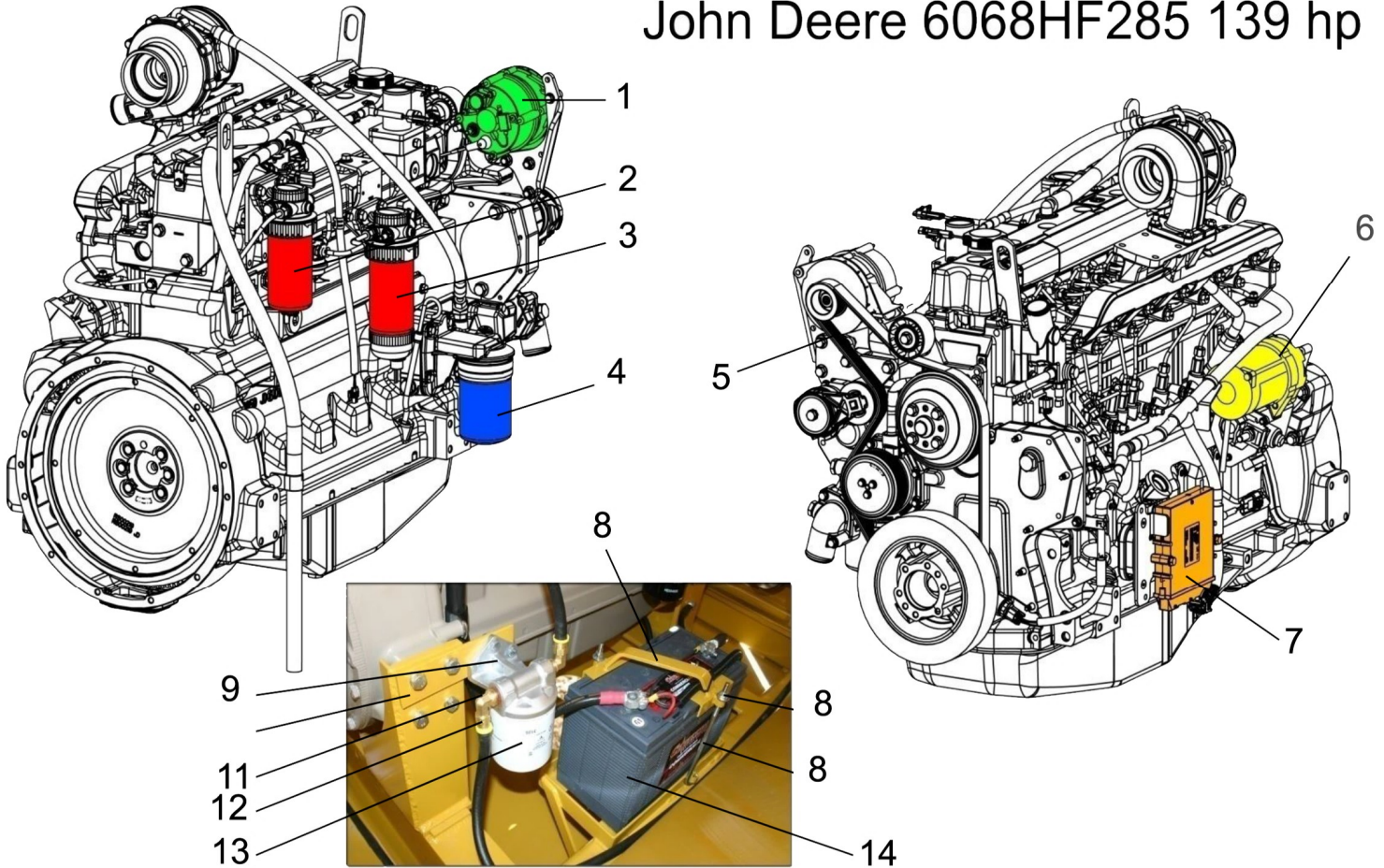
Notes:

- John Deere pin connector wiring to key switch as follows; B-G-D-E-J, as shown on diagram.
- Pins V-U-F send CAN signal to Saur Danfoss, DP-200 thru "Y" harness w/terminating resistor.
- Wide key on Duetz plug always faces down.

ENGINE FILTERS & ELECTRICAL

***Applies to the D-2/36 & D-40R models only!**

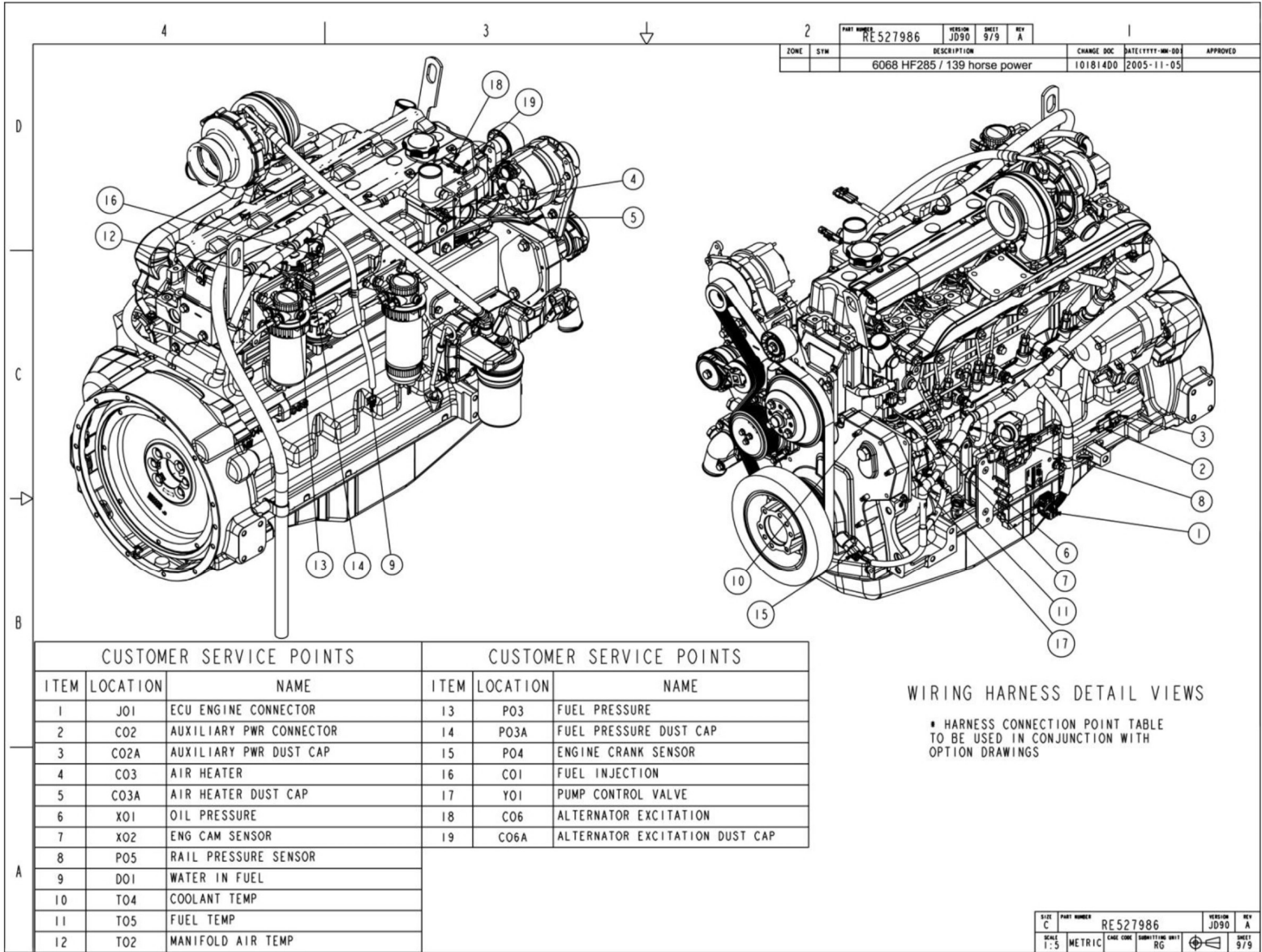
John Deere 6068HF285 139 hp



Item#	Part#	Description	Qty
1		Alternator - Specific to Engine Serial Number	1
2		Fuel Filter - Specific to Engine Serial Number	1
3		Fuel Filter - Specific to Engine Serial Number	1
4		Oil Filter - Specific to Engine Serial Number	1
5		Engine Serpentine Belt - Specific to Engine Serial Number	1
6		Starter - Specific to Engine Serial Number	1
7		Engine ECU - Specific to Engine Serial Number	1
8	7658	Battery Hold Down Assembly	1
9	7652	Fuel Filter Mount	1
10	7652A	Fuel Filter Mount Bracket	1
11	7650	Brass Fittings	1
12	7654	Brass Fittings	1
13	7653	Aux Fuel Filter	1
14	7008A	Group 31 Battery	1

ENGINE WIRING HARNESS DIAGRAM

***Applies to the D-2/36 & D-40R models only!**

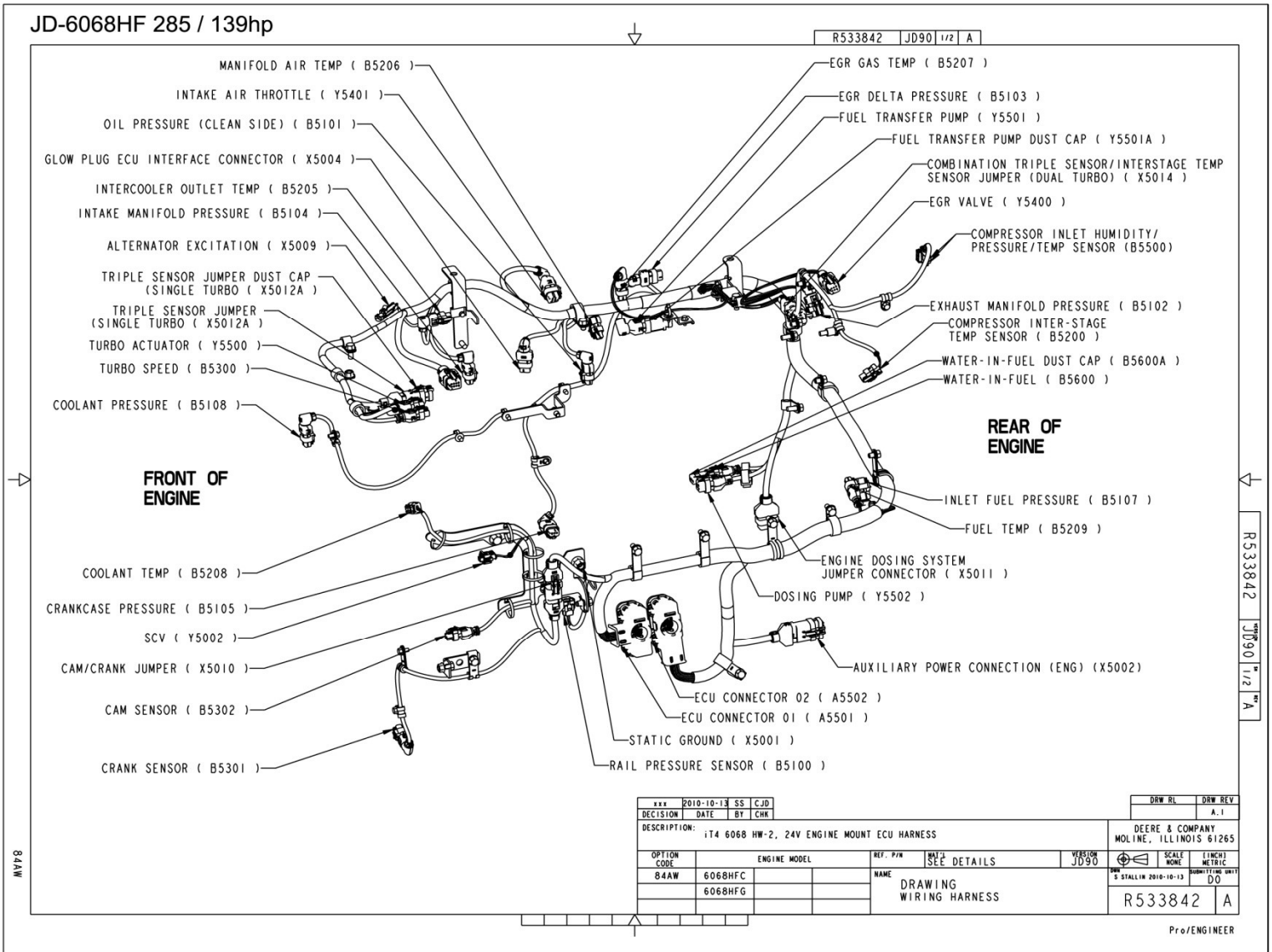


2		PART NUMBER	VERSION	SHEET	REV	1	
		RE527986	JD90	9/9	A		
ZONE	SYM	DESCRIPTION	CHANGE DOC	DATE(YYYY-MM-DD)	APPROVED		
		6068 HF285 / 139 horse power	10181400	2005-11-05			

SIZE	PART NUMBER	VERSION	REV
C	RE527986	JD90	A
SCALE	METRIC	DATE	SHEET
1:5			9/9

ENGINE WIRING HARNESS DIAGRAM

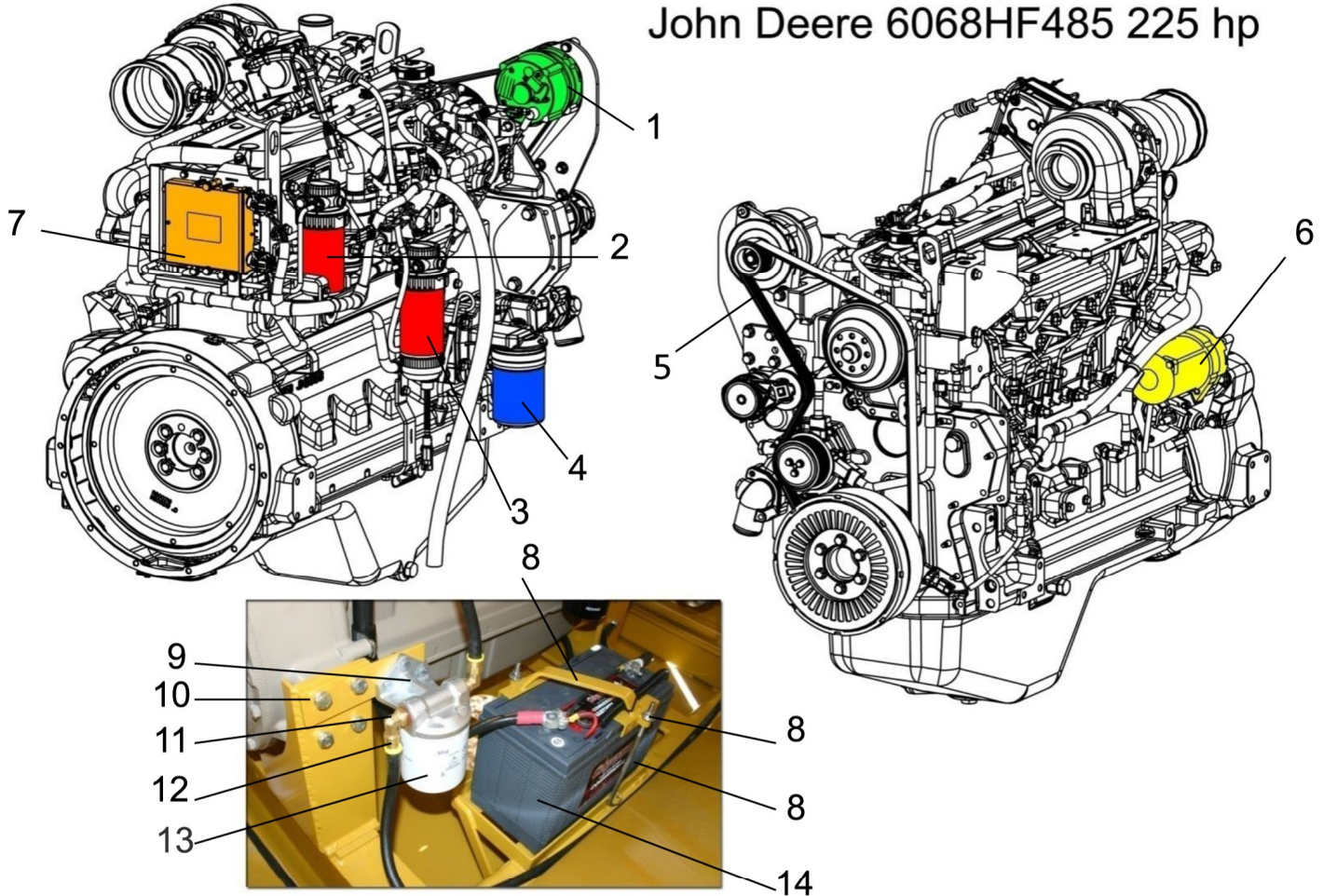
***Applies to the D-2/36 & D-40R models only!**



ENGINE FILTERS & ELECTRICAL

***Applies to the D-2/40 model line only!**

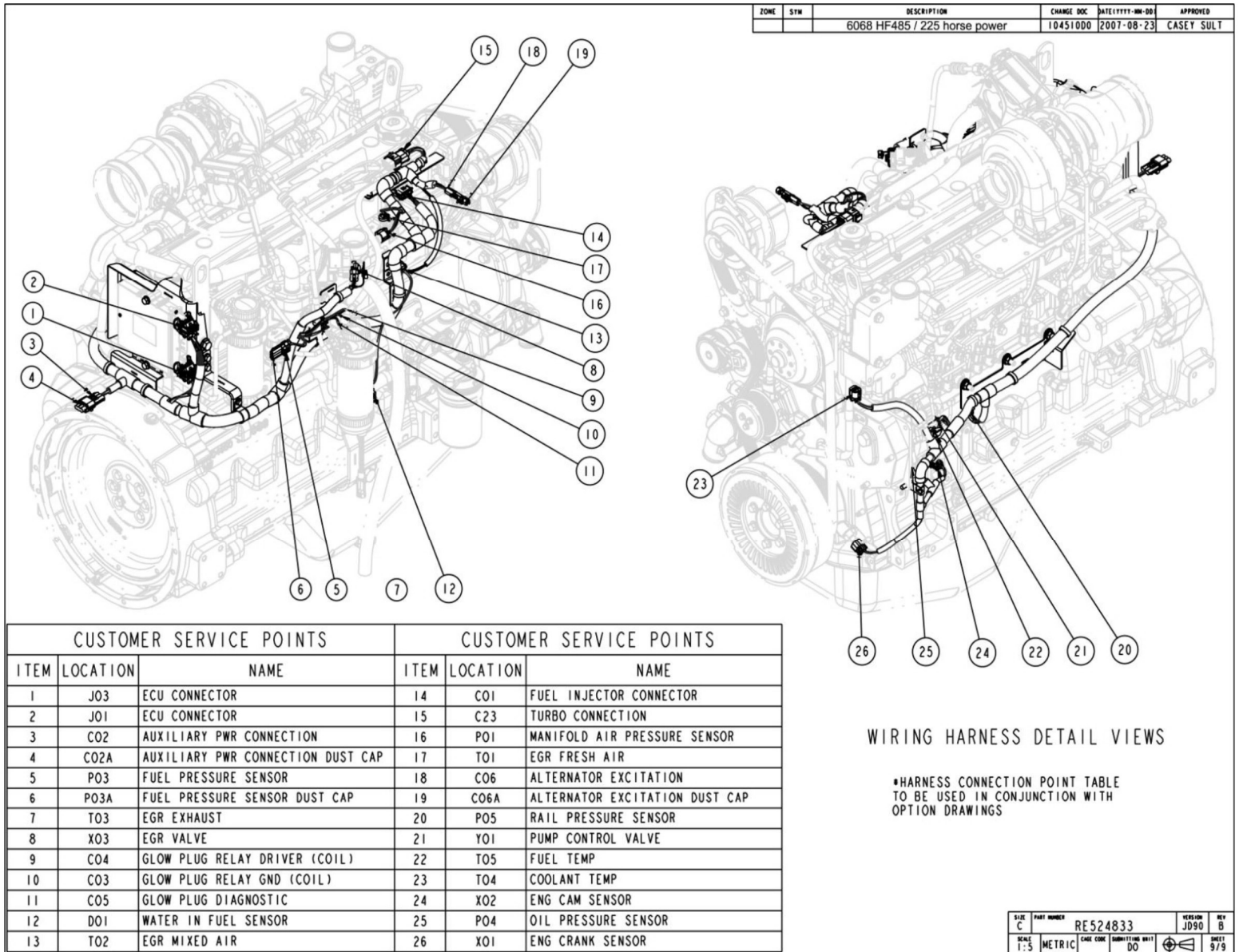
John Deere 6068HF485 225 hp



Item#	Part#	Description	Qty
1		Alternator - Specific to Engine Serial Number	1
2		Fuel Filter - Specific to Engine Serial Number	1
3		Fuel Filter - Specific to Engine Serial Number	1
4		Oil Filter - Specific to Engine Serial Number	1
5		Engine Serpentine Belt - Specific to Engine Serial Number	1
6		Starter - Specific to Engine Serial Number	1
7		Engine ECU - Specific to Engine Serial Number	1
8	7658	Battery Hold Down Assembly	1
9	7652	Fuel Filter Mount	1
10	7652A	Fuel Filter Mount Bracket	1
11	7650	Brass Fittings	1
12	7654	Brass Fittings	1
13	7653	Aux Fuel Filter	1
14	7008A	Group 31 Battery	1

ENGINE WIRING HARNESS DIAGRAM

***Applies to the D-2/40 model line only!**

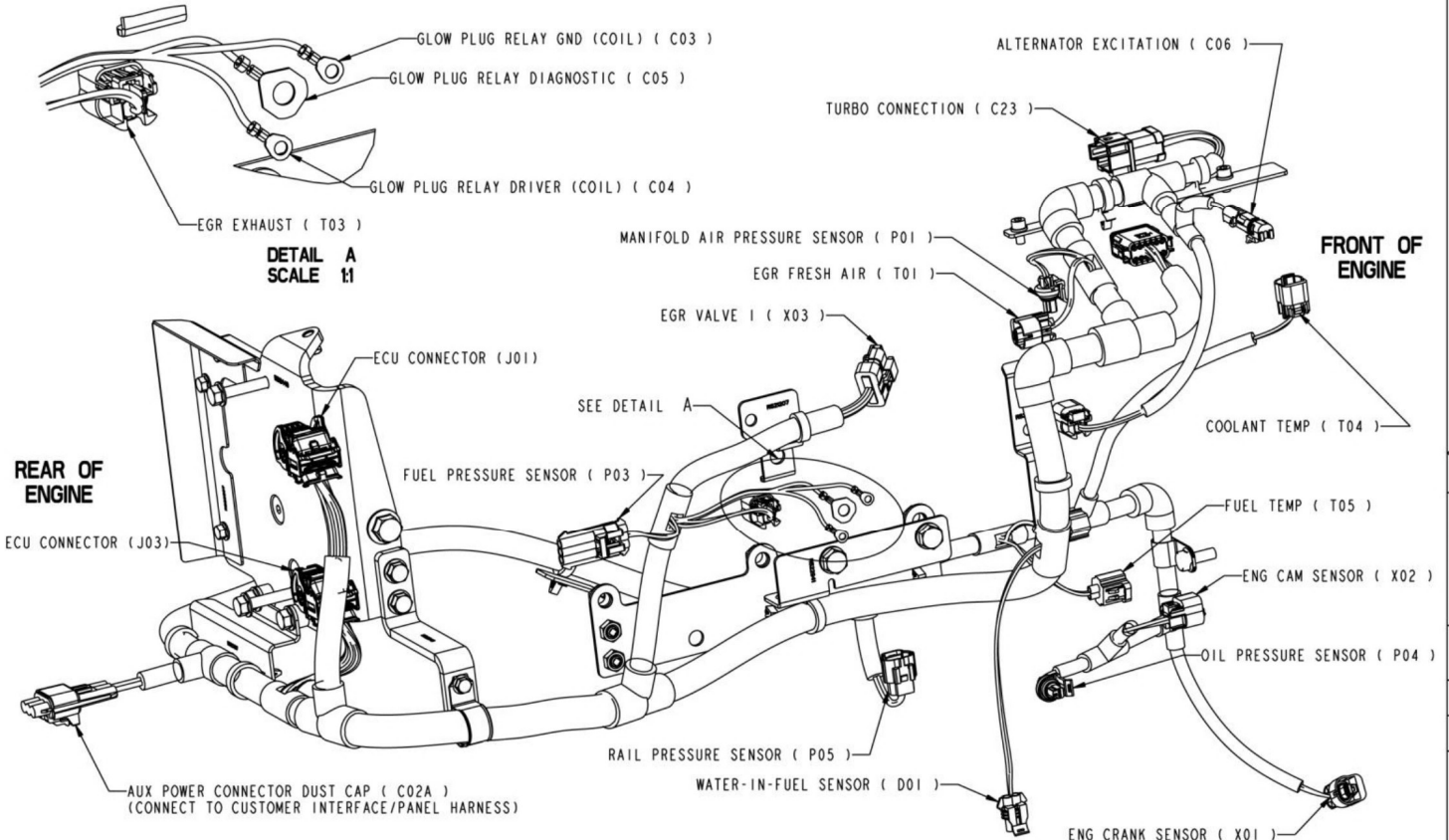


ENGINE WIRING HARNESS DIAGRAM

***Applies to the D-2/40 model line only!**

JD-6068HF485 / 225hp

R522156 JD90 1/3 D



DETAIL A
SCALE 1:1

REAR OF
ENGINE

FRONT OF
ENGINE

ECU CONNECTOR (J03)

AUX POWER CONNECTOR DUST CAP (C02A)
(CONNECT TO CUSTOMER INTERFACE/PANEL HARNESS)

2. HARNESS AND BRACKETS APPEAR AS ASSEMBLED ON THE ENGINE
1. WIRING HARNESS AND ELECTRONIC CONTROL UNIT (ECU) MAY BE FACTORY ASSEMBLED OR PACKAGED SEPARATELY DEPENDING UPON THE ORDERED OPTION CODE

DESCRIPTION:	DRAWN BY	DATE
	COMPLETE	4.5

DEERE & COMPANY MOLINE, ILLINOIS 61265		SCALE	UNIT
OPTION CODE	ENGINE MODEL	1:1	INCH
8426	6068HF		METRIC
8429			
REF. P/N	PAPER	VERSION	DATE
		JD90	FEB JURS1K 2005-02-04
DRAWING NAME		SUBMITTING UNIT	
DRAWING, WIRING HARNESS OPTION		D0	
		R522156	D

Pro/ENGINEER

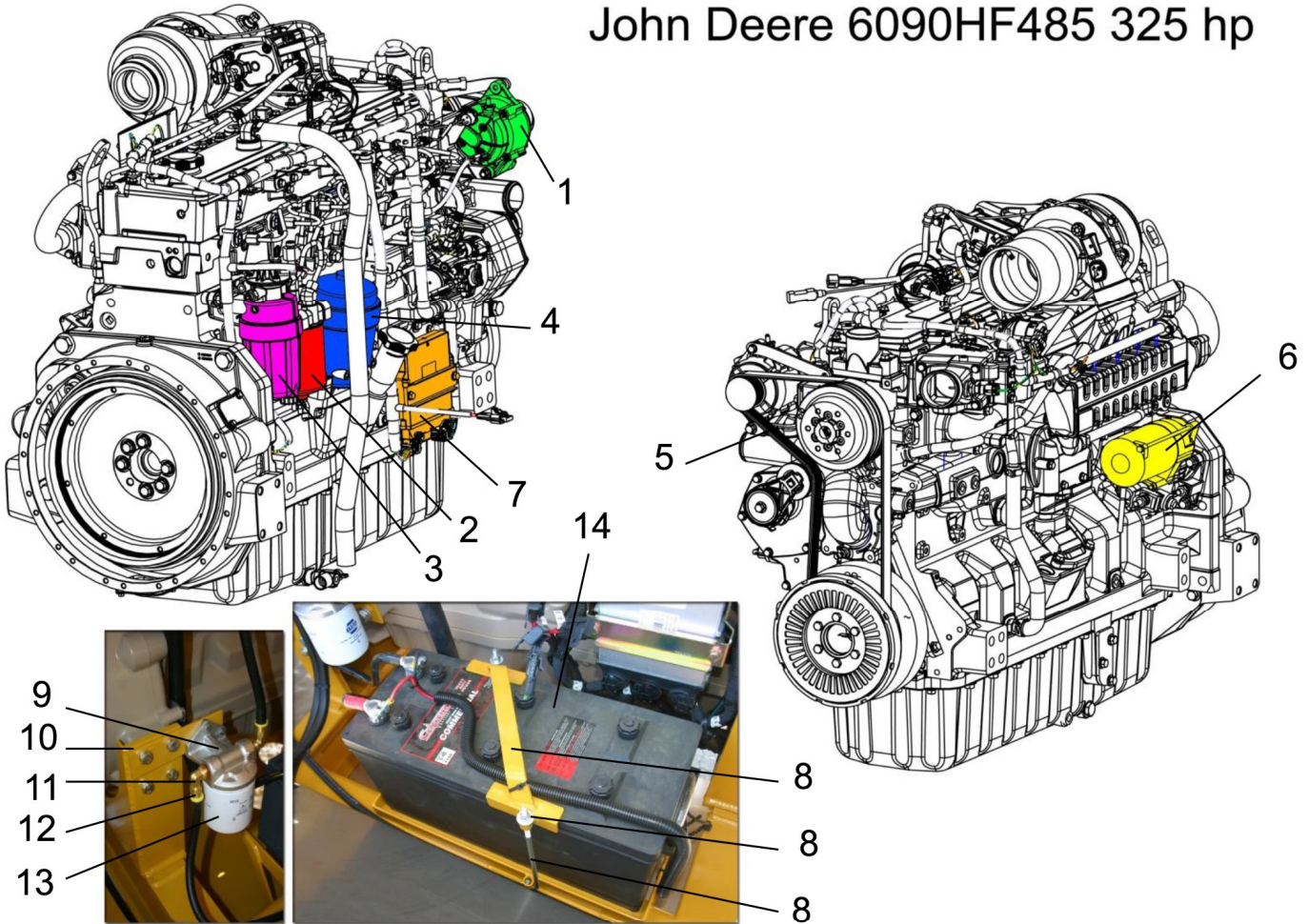
8426 8429

R522156 JD90 1/3 D

ENGINE FILTERS & ELECTRICAL

***Applies to the D-2/45 model line only!**

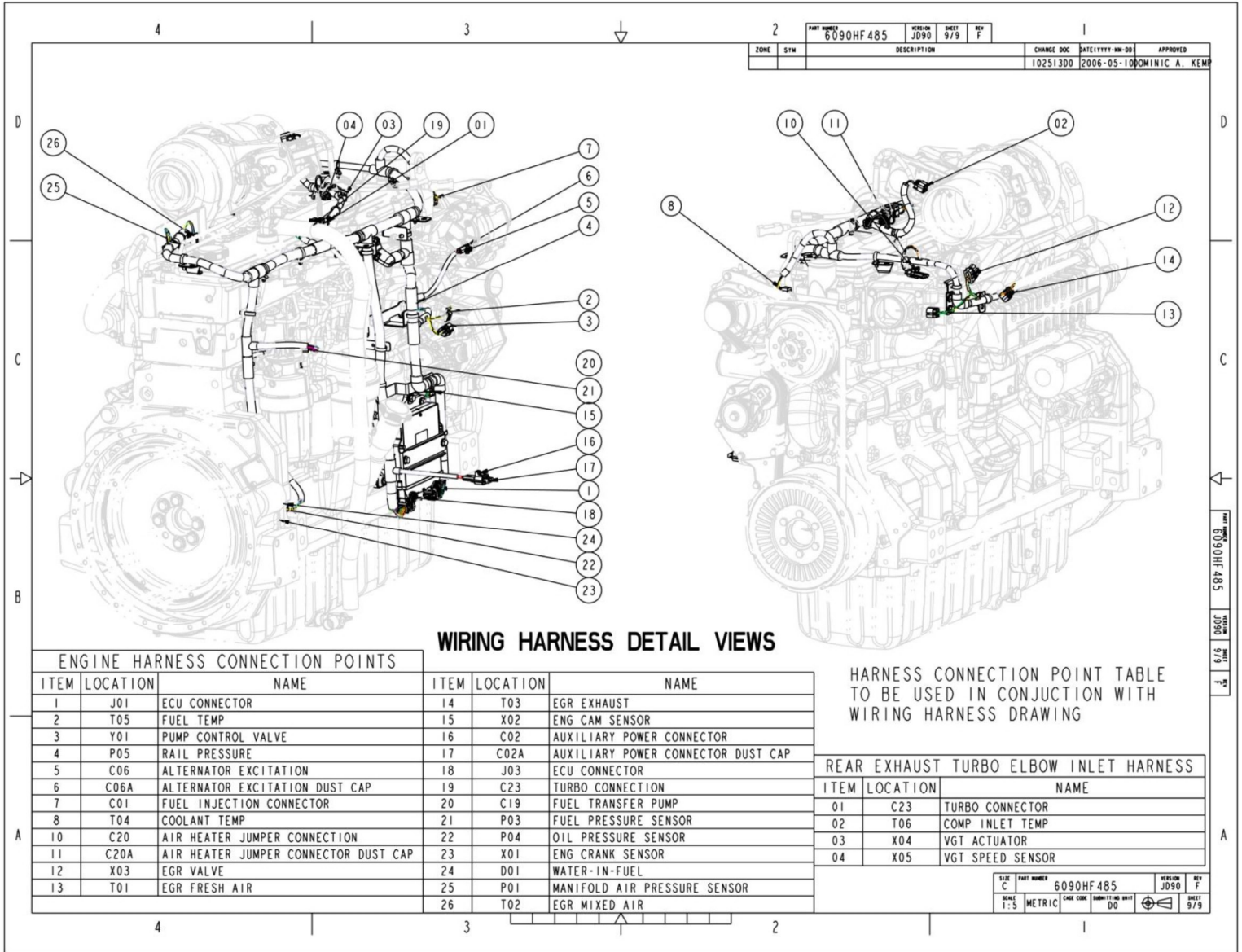
John Deere 6090HF485 325 hp



Item#	Part#	Description	Qty
1		Alternator - Specific to Engine Serial Number	1
2		Fuel Filter - Specific to Engine Serial Number	1
3		Fuel Filter - Specific to Engine Serial Number	1
4		Oil Filter - Specific to Engine Serial Number	1
5		Serpentine Belt - Specific to Engine Serial Number	1
6		Starter - Specific to Engine Serial Number	1
7		Engine ECU - Specific to Engine Serial Number	1
8	7658	Battery Hold Down Assembly	1
9	7652	Fuel Filter Mount	1
10	7722	Fuel Filter Mount Bracket	1
11	7650	Brass Fittings	2
12	7438	Brass Fittings	2
13	7653	Aux Fuel Filter	1
14	7008A	Group 31 Battery	1

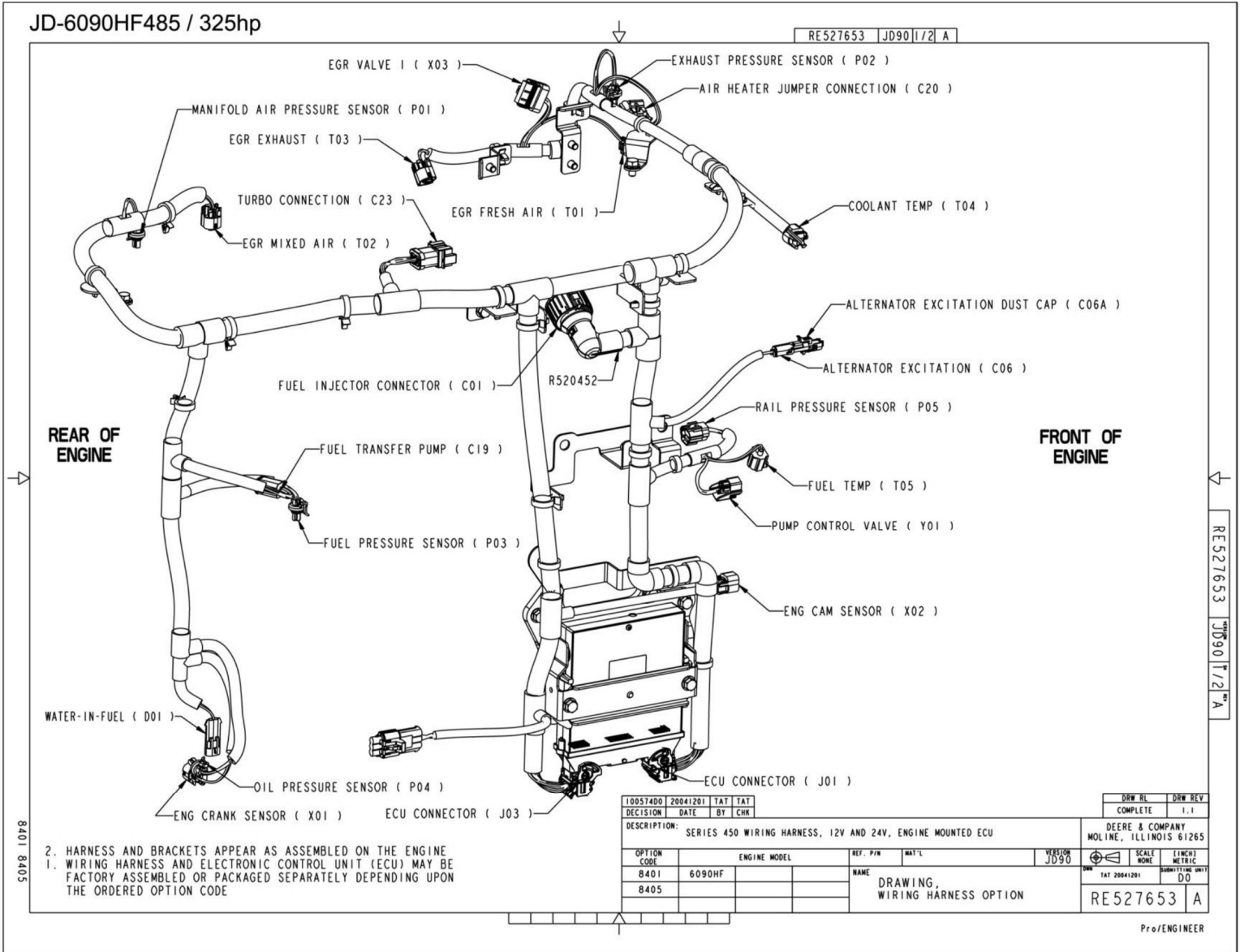
ENGINE WIRING HARNESS DIAGRAM

***Applies to the D-2/45 model line only!**

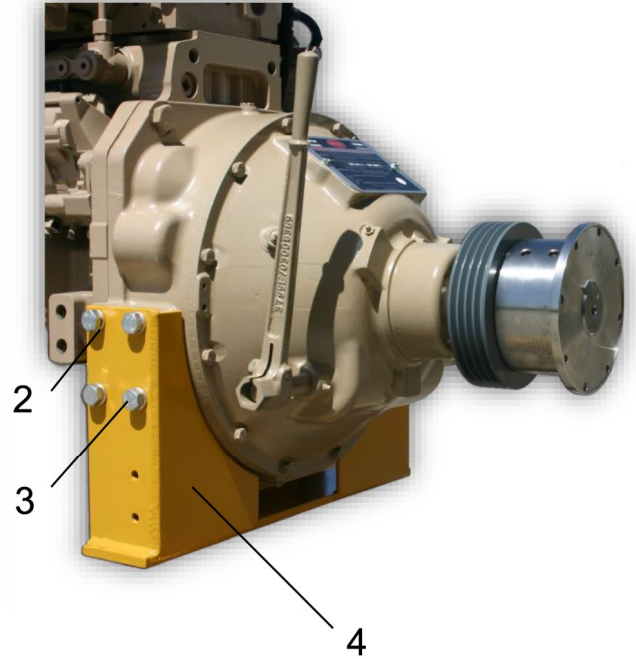


ENGINE WIRING HARNESS DIAGRAM

***Applies to the D-2/45 model line only!**



ENGINE MOUNTS

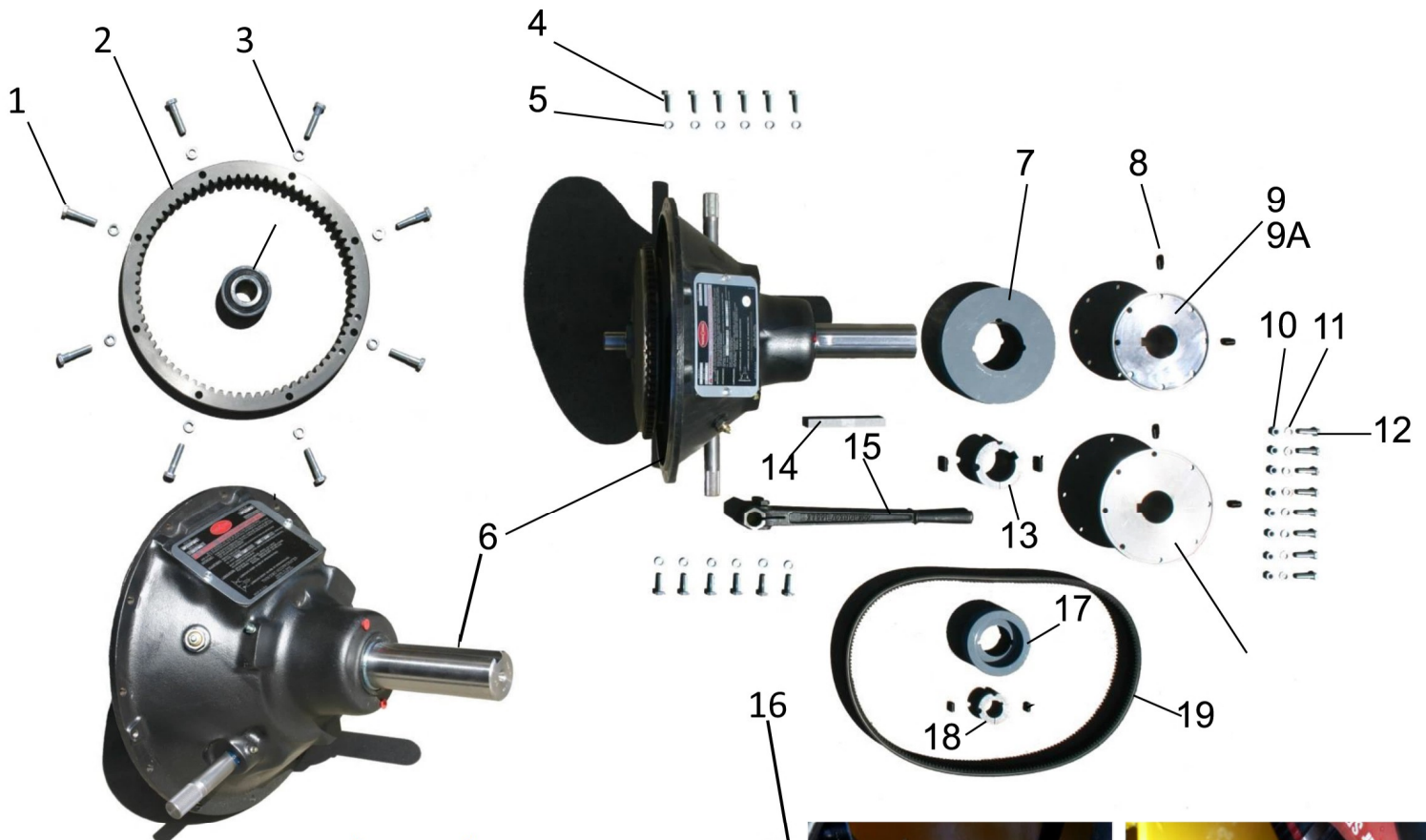


1

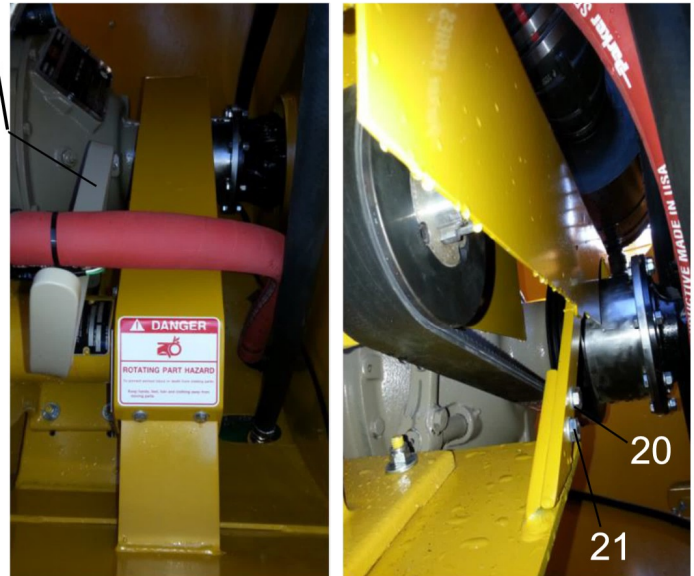
Item#	Part#	Description	Qty
1	7804	Front Engine Mount	1
2	7803	Lock Washer	6
3	7802	Bolt	6
4	7801	Rear Engine Mount	1

Note: Specify product model, engine size and serial number

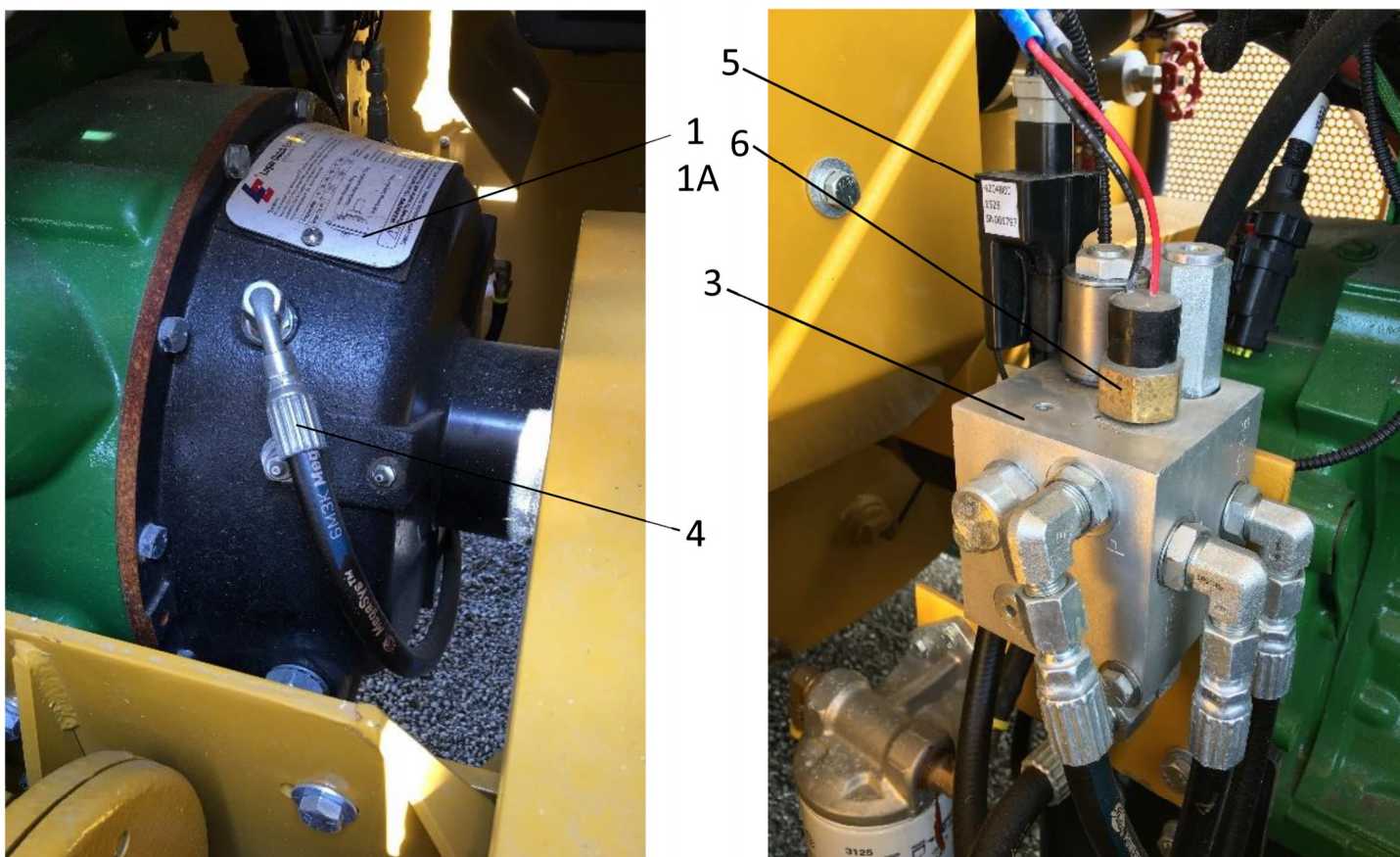
CLUTCH ASSEMBLY & PUMP DRIVE



Item#	Part#	Description	Qty
1	2259	Bolt 3/8" x 1 3/4"	8
2	7284	Ring Gear	1
3	2551	3/8 LockWasher	8
4	2257	3/8 x 1 1/4 Bolt	12
5	2251	3/8 LockWasher	12
6	7280	Clutch Assembly	1
7	7359	Sheave 4GR3V 8.0	1
8	7275B	Set Screw	3
9	7275	1610 Hub 500-600 gallon + 2 set screws	1
9A	7275A	1710 Hub 1000 Gallon	1
10	2252	3/8" Nut	8
11	2251	3/8" Lock Washer	8
12	2257	3/8" x 1 1/4" Bolt	8
13	7361	Bushing + 2 Set Screws 2517 x 2 1/4"	1
14	7279	Key 5/8 x 4"	1
15	7342	Lever	1
16	7342A	Clutch Lever	1
17	7147	Pump Sheave	1
18	7148	Bushing	1
19	7151	Belt - Pump: 3VX560	1
19A	7151A	Belt - Pump: 3VX530	1
20	2226	Washer	2
21	2221	Bolt	2
22	2226	Bolt	2
23	2200	Washer	2
24	7661A	Pulley Guard	1



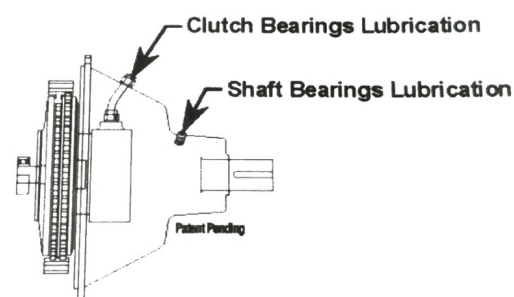
HYDRAULIC CLUTCH ASSEMBLY



NOTE:

After 100 hours of operation, through grease fittings apply 1oz./28 grams of fresh lithium #2 grease into shaft bearings and 1oz./28 grams of fresh Mobile SHC100 or equivalent into clutch bearings. Rotate the shaft by hand if possible. Re-install the cover plate if applicable. Run the clutch for 10 minutes at 50% of rated speed. Remove cover plate and clean up any extra grease from inside of the bell housing. Re-install the cover plate and operate normally.

**See Logan Clutch manual for more details.

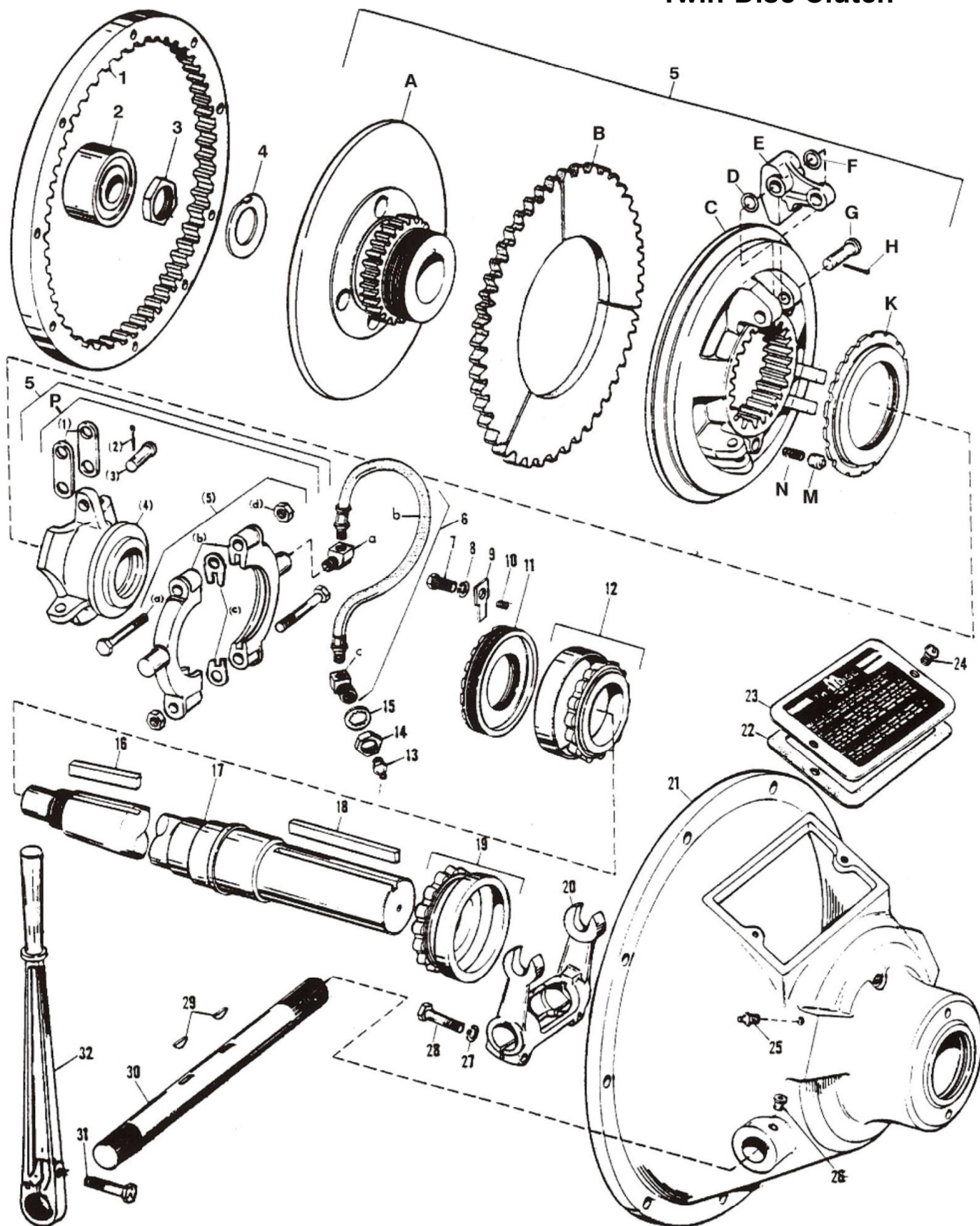


Item#	Part#	Description	Qty
1	7280L	Logan Clutch D2/45	1
1A	7281	Logan Clutch D40R, D2/36, D2/40	1
3	7282	Hydraulic Manifold	1
4	7283	Hydraulic Hose	1
5	4208410	Clutch Module	1
6	LM-6A-130R	Nason Pressure Switch	1

CLUTCH ASSEMBLY

*General Clutch Breakdown!

Twin-Disc Clutch



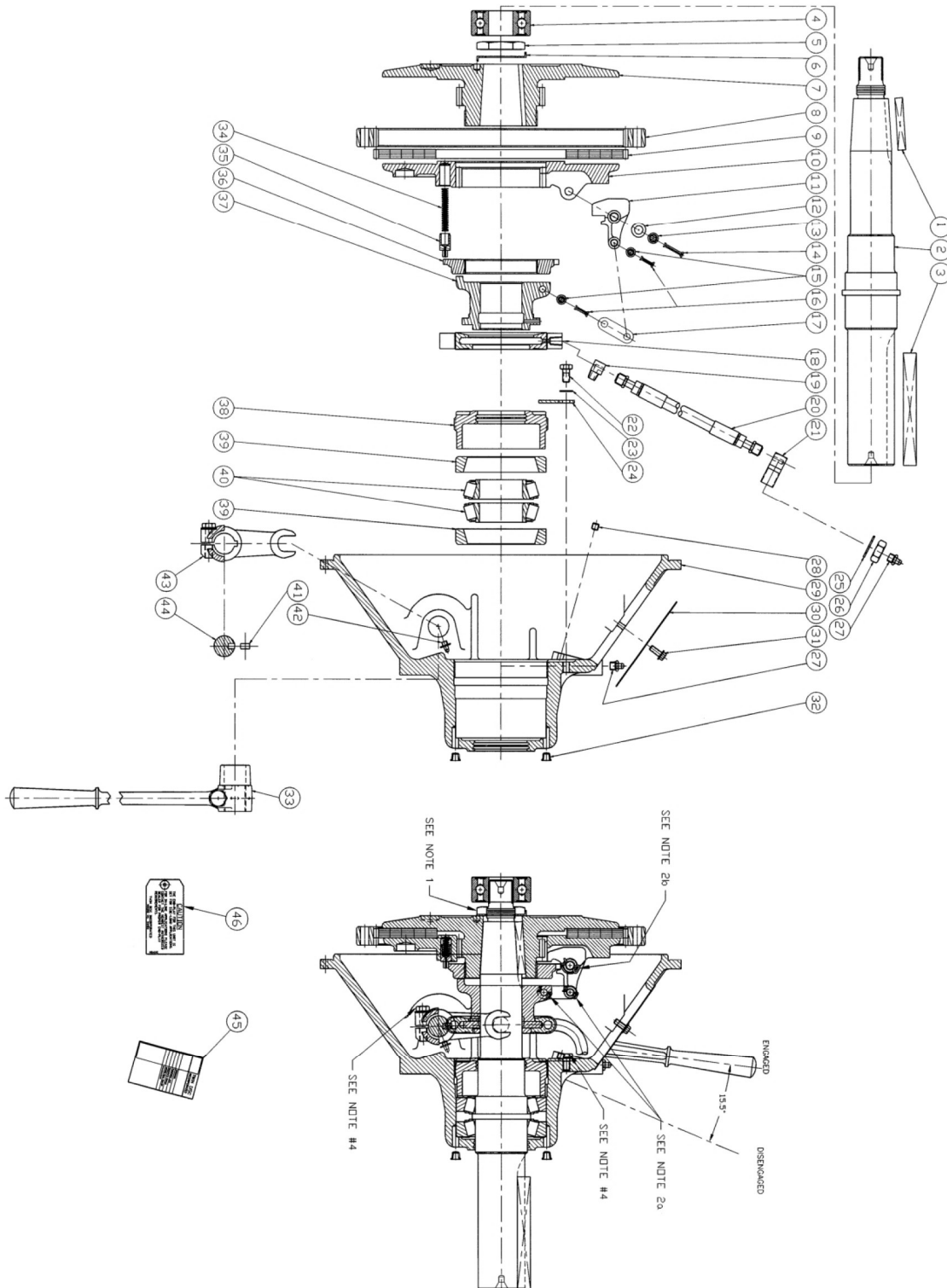
CLUTCH ASSEMBLY (Continued)

ITEM #	PART #	DESCRIPTION	QTY	ITEM #	PART #	DESCRIPTION	QTY
1	7287	RING, DRIVING	1	7	7317	SCREW, HEX-HEAD CAP 5/16-18 X 5/8"	1
2	7288	BEARING, PILOT	1	8	7318	WASHER, LOCK 5/16"	1
3	7289	NUT, HUB	1	9	7319	LOCK, RETAINER, BEARING	1
4	7290	WASHER, LOCK	1	10	7320	SCREW, HEADLESS SET 5/16 X 5/16"	1
5	7291	CLUTCH, ASSEMBLY	1	11	7321	RETAINER, BEARING	1
a	7292	PLATE, HUB AND BACK	1	12	7322	BEARING, ROLLER	1
b	7293	PLATE, DRIVING	1	13	7323	FITTING, HYDRAULIC 1/8" MALE	1
c	7294	PLATE, FLOATING	1	14	7324	NUT, JAM 5/8"	1
d	7295	WASHER, SPRING	3	15	7325	WASHER, LOCK 5/8"	1
e	7296	LEVER	3	16	7326	KEY, HUB 3/8 x 3/8 x 2-1/2"	1
f	7297	WASHER, SPRING	3	17	7327	SHAFT, CLUTCH	1
g	7298	PIN, LEVER	3	18	7328	KEY 5/8 x 5/8 x 4-3/8"	1
h	7299	PIN, COTTER	3	19	7329	BEARING, ROLLER	1
k	7300	RING, ADJUSTING	1	20	7330	YOKE, THROWOUT	1
m	7301	PIN, ADJUSTING, LOCK	1	21	7331	HOUSING, NO. 2 SAE	1
n	7302	SPRING, PIN, LOCK ADJUSTING	1	22	7332	GASKET, COVER INSTRUCTION	1
p	7303	SLEEVE, SLIDING, ASSEMBLY	1	23	7333	PLATE, COVER, INSTRUCTION	1
(1)	7304	LINK, LEVER	6	24	7334	SCREW, ROUND-HEAD 1/4 X 1/2"	2
(2)	7305	PIN, COTTER	6	25	7335	FITTING, HYDRAULIC 1/8" MALE	1
(3)	7306	PIN, LINK, LEVER	6	26	7336	FITTING	2
(4)	7307	SLEEVE, SLIDING	1	27	7337	WASHER, LOCK 3/8"	2
(5)	7308	COLLAR, ASSEMBLY	1	28	7338	SCREW, HEX-HEAD CAP 3/8-16 X 1-1/2"	2
(a)	7309	SCREW, HEX-HEAD CAP 3/8-24 X 2-1/4"	2	29	7339	KEY, WOODRUFF	2
(b)	7310	COLLAR	1	30	7340	SHAFT, OPERATING	1
(c)	7311	SHIM	2	31	7341	SCREW, HEX-HEAD CAP 1/3-13 X 1-1/4"	1
(d)	7312	NUT, HEX	2	32	7342	LEVER, HAND	1
6	7313	HOSE, FLEXIBLE, ASSEMBLY	1				
a	7314	FITTING	1				
b	7315	HOSE, FLEXIBLE	1				
c	7316	FITTING	1				

CLUTCH ASSEMBLY

***D-2/36 & D-40R models only (SP111 / P301)!**

Twin-Disc Clutch



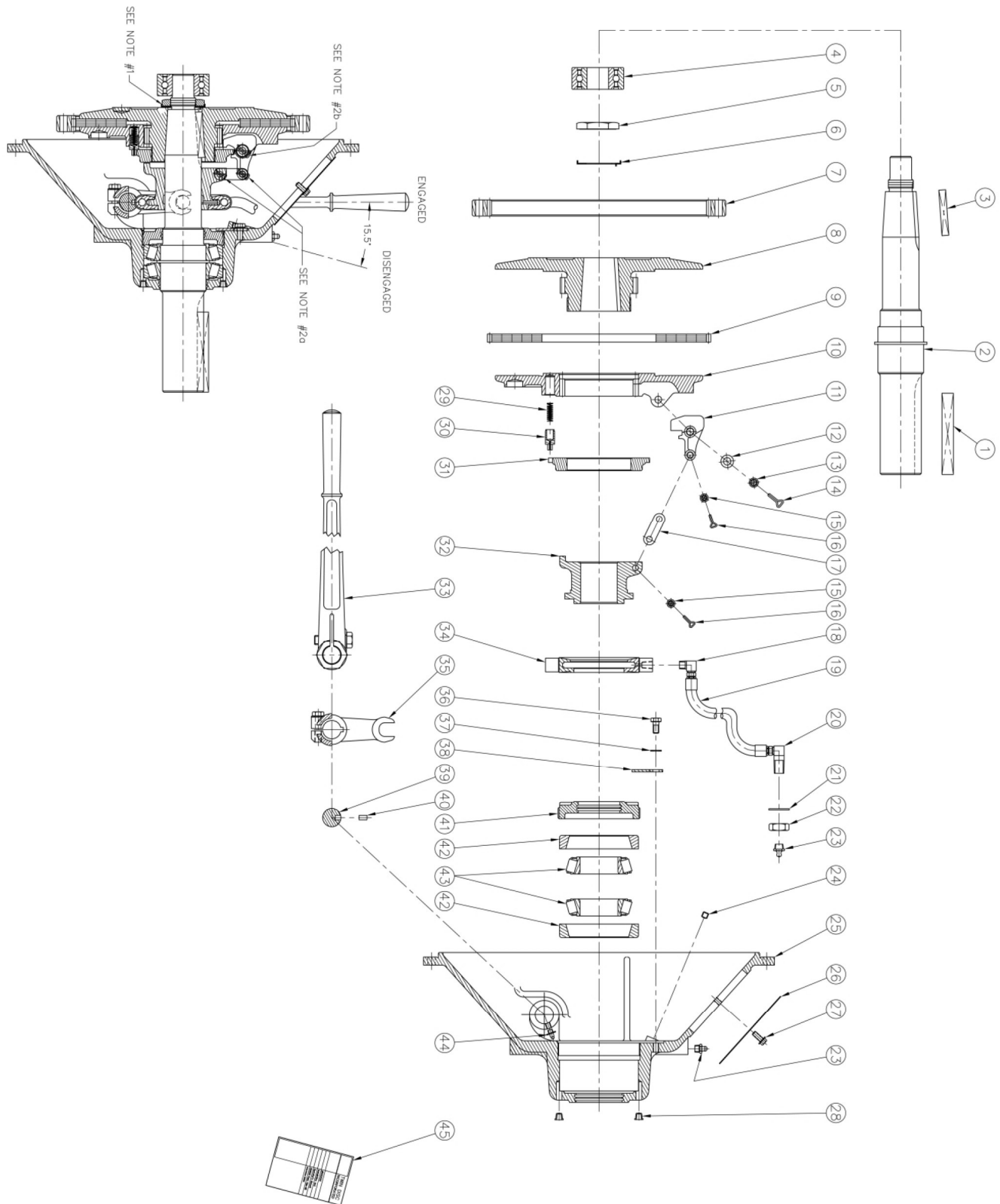
CLUTCH ASSEMBLY (P301 Continued)

ITEM	PART NO.	-301	NAME	REMARKS
1	M2032BE	1	KEY	
2	A5188AZ	1	SHAFT, CLUTCH	
3	M2033BJ	1	KEY	
4	M224A	1	BEARING, PILOT	
5	1092	1	NUT	
6	A1588	1	WASHER	
7	ZA6505A	1	HUB AND BACKPLATE	
8	6625D	1	RING, DRIVING	
9	A5579D	1	PLATE, FRICTION	
10	A6506B	1	PLATE, PRESSURE	
11	B1304	3	LEVER	
12	M2115C	6	WASHER	
13	B1538A	3	PIN, CLEVIS	
14	B1535C	3	PIN, COTTER	
15	B1537D	6	PIN, CLEVIS	
16	B1535B	6	PIN, COTTER	
17	2617	6	LINK	
18	X117	1	COLLAR ASSY.	
19	M1283	1	FITTING	
20	M1292A	1	HOSE	
21	M1284	1	FITTING	
22	M2001E	1	SCREW, HEX. HD.	
23	M2046L	1	WASHER	
24	1216	1	RETAINER, CLIP	
25	M2046AF	1	WASHER	
26	M2027AN	1	NUT	
27	M268	2	FITTING	
28	M2041AB	1	SET SCREW	
29	8252	1	HOUSING	
30	2815AQ	1	PLATE, INSTRUCTION	
31	02006092	2	SCREW	
32	M2067L	2	PROTECTOR	
33	X3799E	1	LEVER, HAND	
34	A2701BD	1	SPRING, COMPRESSION	
35	B2340	1	PIN	
36	A4238	1	RING, ADJUSTING	
37	A4237	1	SLEEVE, SLIDING	
38	B2147	1	RETAINER, BEARING	
39	MA590	2	BEARING, CUP	
40	MA585	2	BEARING, CONE	
41	M2022Z	2	KEY, WOODRUFF	
42	M503	2	FITTING	
43	X125A	1	YOKE	
44	1144E	1	SHAFT, OPERATING	
45	1015591	1	MANUAL	
46	M2410C	1	TAG, ENDPLAY	

CLUTCH ASSEMBLY

***D-2/40 model only (SP111 / P205)!**

Twin-Disc Clutch



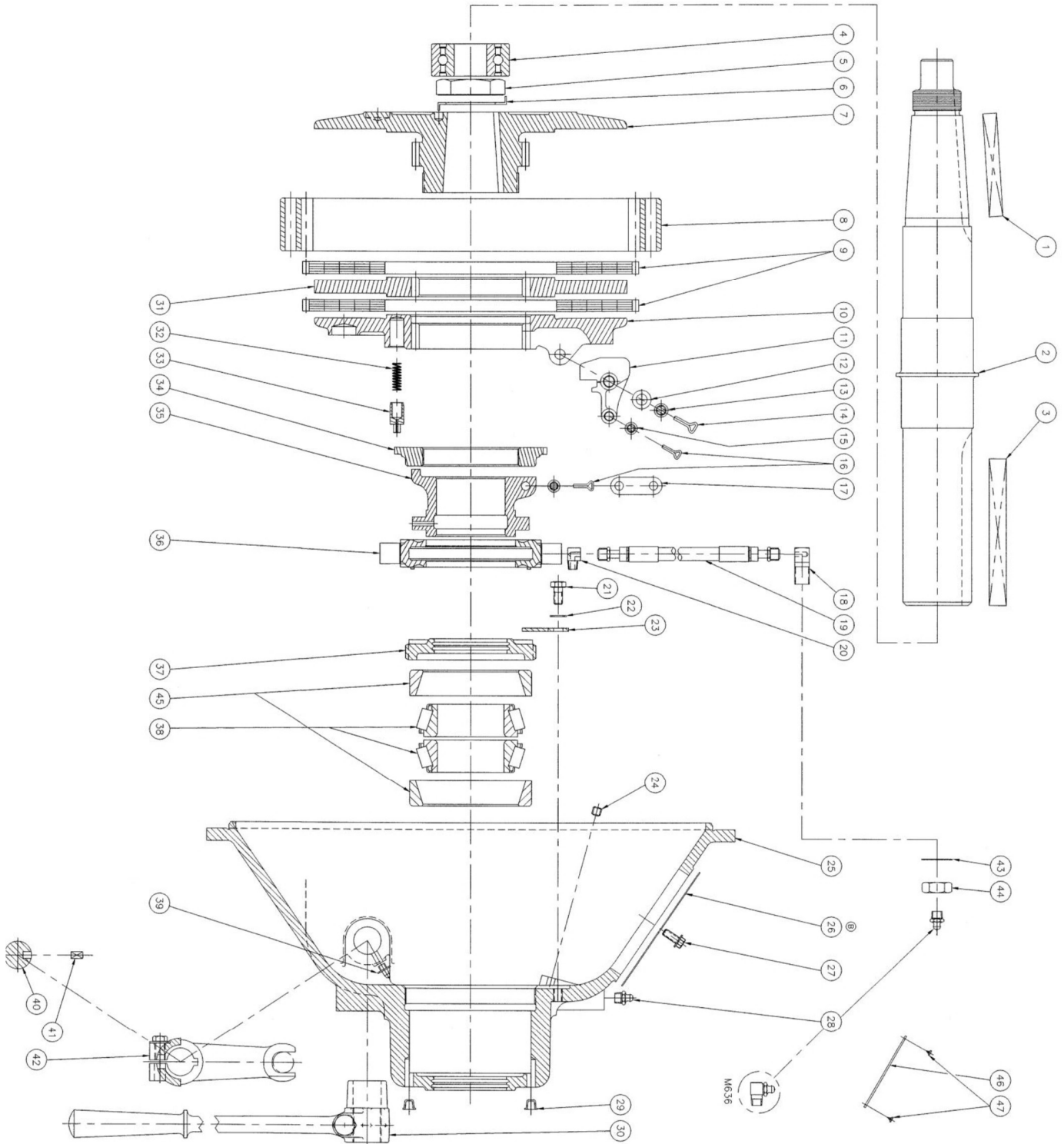
CLUTCH ASSEMBLY (P205 Continued)

ITEM	PART NO.	QTY	NAME	REMARKS
1	M2033BE	1	KEY	
2	A6711	1	SHAFT, CLUTCH	
3	M2032BE	1	KEY	
4	M224A	1	BEARING, PILOT	
5	1092	1	NUT, HEX.	
6	B1511U	1	WASHER	
7	6625D	1	RING, DRIVE	
8	ZA6505A	1	HUB AND BACKPLATE	
9	A5579D	1	PLATE, FRICTION	
10	A6506B	1	PLATE, PRESSURE	
11	B1304	3	LEVER	
12	M2115C	6	WASHER	
13	B1538A	3	PIN, COTTER	
14	B1535C	3	PIN, CLEVIS	
15	B1535B	6	PIN, COTTER	
16	B1537D	6	PIN, CLEVIS	
17	2617	6	LINK	
18	M1283	1	FITTING	
19	M1292A	1	HOSE	
20	M1284	1	FITTING	
21	M2046AF	1	WASHER	
22	M2027AN	1	NUT, HEX. HD.	
23	M268	2	FITTING	
24	M2041AB	1	SCREW, SET	
25	9702	1	HOUSING	
26	2815AQ	1	PLATE, INSTRUCTION	
27	02006092	2	SCREW, RD. HD.	
28	M2067L	2	PROTECTOR	
29	A2701BD	1	SPRING, COMPRESSION	
30	B2340	1	PIN	
31	A4238	1	RING, ADJUSTING	
32	A4237	1	SLEEVE, SLIDING	
33	X3799E	1	LEVER ASSEMBLY	
34	X117	1	COLLAR ASSEMBLY	
35	X125A	1	YOKE ASSEMBLY	
36	M2001E	1	SCREW, HEX. HD.	
37	M2046L	1	WASHER	
38	1216	1	RETAINER, CLIP	
39	1144E	1	SHAFT, OPERATING	
40	M2022Z	2	KEY, WOODRUFF	
41	A1380	1	RETAINER, BEARING	
42	MA585	2	BEARING, CONE	
43	MA590	2	BEARING, CUP	
44	M503	2	FITTING	
45	1022762CD	1	MANUAL	©

CLUTCH ASSEMBLY

***D-2/45 model only (SP211 / P201)!**

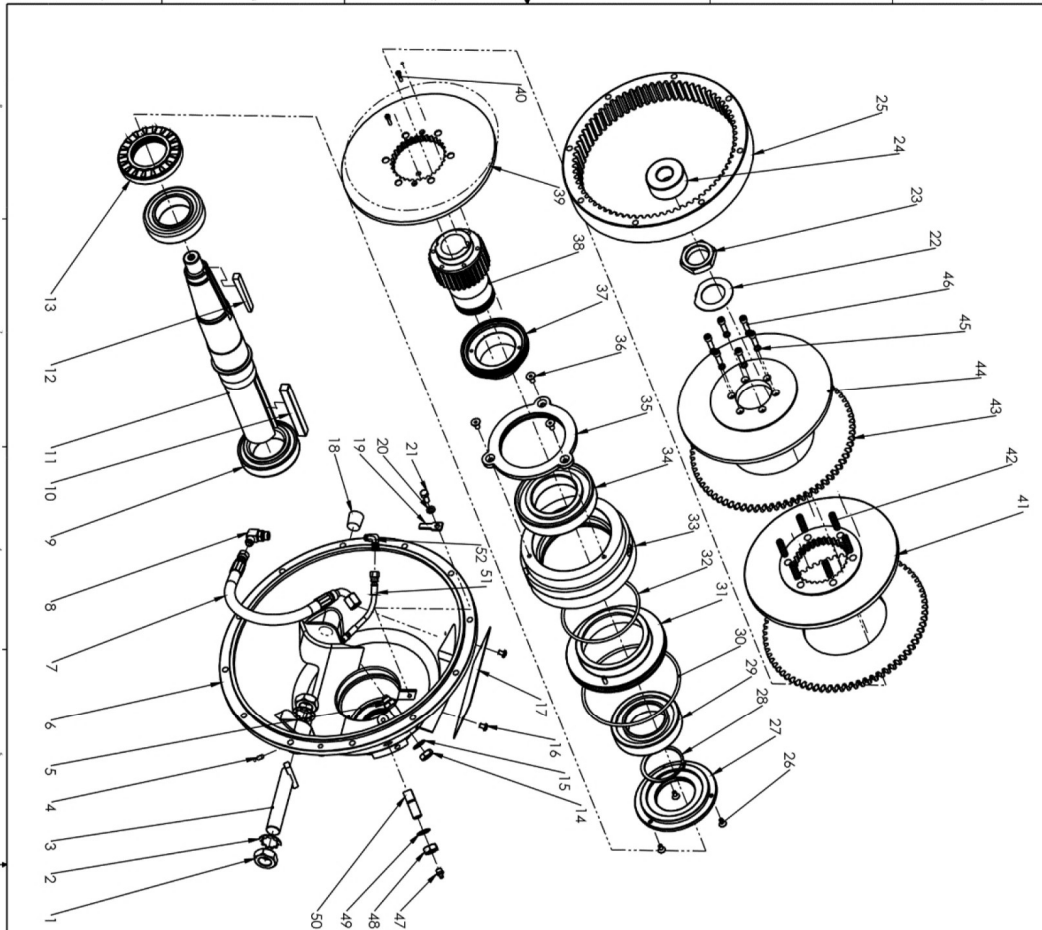
Twin-Disc Clutch



HYDRAULIC CLUTCH ASSEMBLY

*D-2/45 model only (LC-211)!

Logan Clutch



CLUTCH PART No. P211-0005

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
52	1	ELBOW 1/8NPTx1/4 37 DEG FLARE	034-0232
51	1	1/8NPT MALE x 1/4 FLARE FEMALE HOSE	034-0235
50	1	BULKHEAD FITTING	031-0061
49	1	INTERNAL TOOTH LOCKWASHER	075-0048
48	1	5/16-18 UNF JAM NUT	072-0021
47	1	GREASE FITTING	031-0034
46	6	5/16-18 UNF x 1.00 LG. 3 H.C.S.	047-0001
45	6	HIGH COLLAR LOCKWASHER	075-0001
44	1	BACKPLATE	005-0061
43	2	122409445	042-0011
42	6	COMPRESSION SPRING	074-0282
41	1	SEPARATOR PLATE	047-0015
40	2	3 H.C.S. #10-24 x .75	004-0097
39	1	PRESSURE PLATE	003-0357
38	1	HUB	074-0281
37	1	BEARING HUB	047-0207
36	3	5/16-18 UNF x .625 LG. F.H.S.C.S.	033-0325
35	1	SPACER	012-0045
34	1	ANGULAR CONTACT BEARING (Z217)	012-0045
33	1	FRIGION	002-0166
32	1	O-RING	010-0092
31	1	CYLINDER	001-0223
30	1	ANGULAR CONTACT BEARING (Z219)	010-0091
29	1	RETAINING RING	012-0012
28	1	SPACER	015-0009
27	1	1/4-20 UNF x .50 LG. F.H.S.C.S.	033-0314
26	3	DRIVE RING	047-0087
25	1	SHAFT BEARING	014-0320
24	1	LOCK NUT	051-0080
23	1	LOCK WASHER	045-0136
22	1	HEX BOLT 5/16-18 x 0.75 LG	044-0027
21	1	LOCK CUP	043-0012
20	1	STOPPER PLUG	061-0290
19	1	NAME PLATE	074-0270
18	2	1/4-20 x .375 LG. PAN HEAD SCREW	053-0026
17	1	INTERNAL TOOTH LOCKWASHER	075-0032
16	1	9/16-18 UNF JAM NUT	074-0020
15	1	BEARING NUT	061-0289
14	1	TAPER KEY	056-2138
13	1	SHAFT	041-0278
12	1	SHAFT KEY	056-1521
11	1	TAPERED ROLLER BEARING	015-0174B
10	2	SAE ELBOW	034-0134
9	1	HYDRAULIC HOSE ASSEMBLY	034-0168
8	1	HOUSING	034-0018
7	1	BULKHEAD FITTING - STRAIGHT	034-0069
6	1	1/4-20 UNF x .62 LG. SET SCREW	040-0004
5	1	ANTI-ROTATION PIN	074-0386
4	1	TOOTH LOCKWASHER 1"	075-0070
3	2	JAM NUT 1"-14 UNF	074-0019
2	2		
1	1		

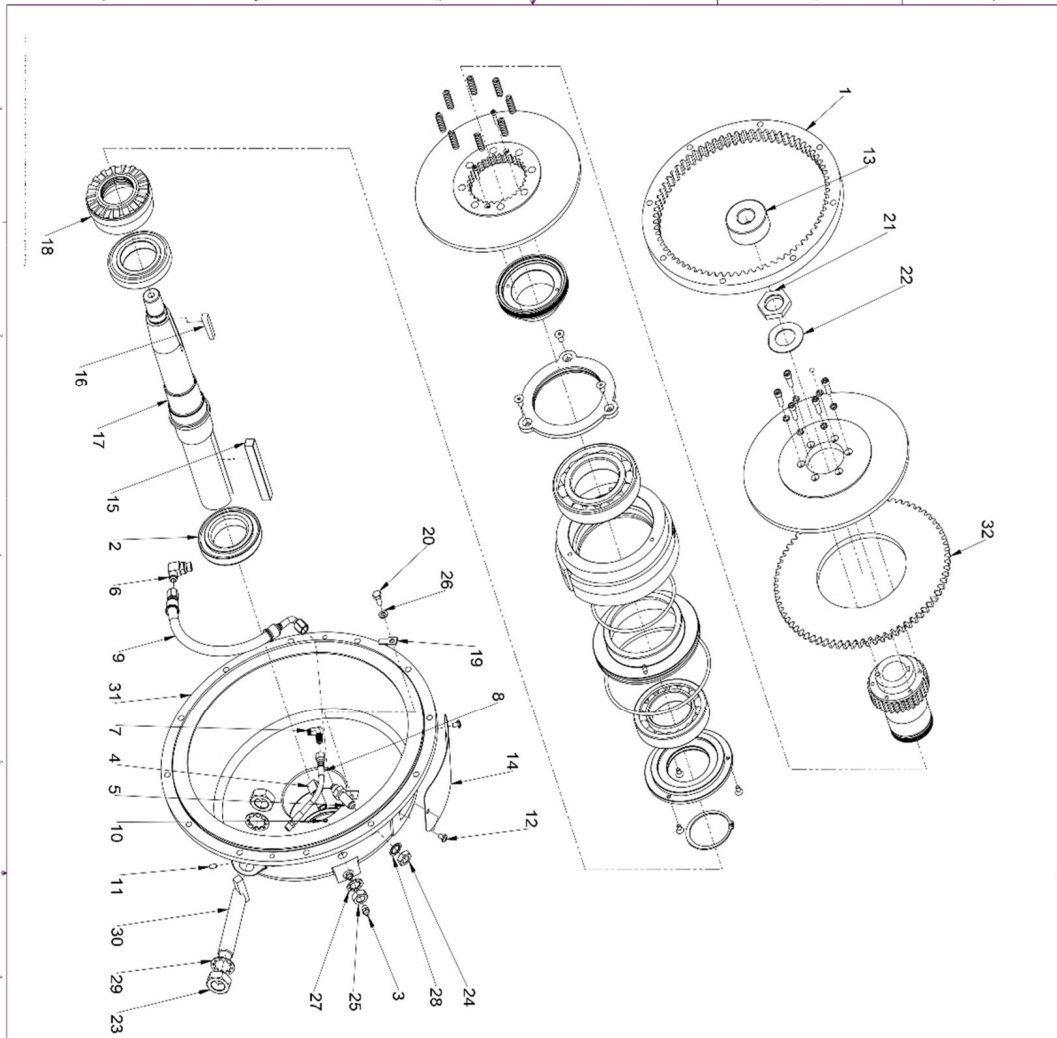
Logan Clutch Corporation
 10000 W. 10th St., Suite 100
 Houston, TX 77036
 TEL: 281-461-1111
 FAX: 281-461-1112
 WWW: www.loganclutch.com

DATE: 11/14/11
 SCALE: 1:1
 SHEET: 1 OF 2
 TITLE: BELL HOUSING CLUTCH
 SAE #2 BELL HOUSING
 PART NO: LC211-H2S02
 REV: A

HYDRAULIC CLUTCH ASSEMBLY

*D-2/40, 2/36, & 40R models (LC-111)

Logan Clutch



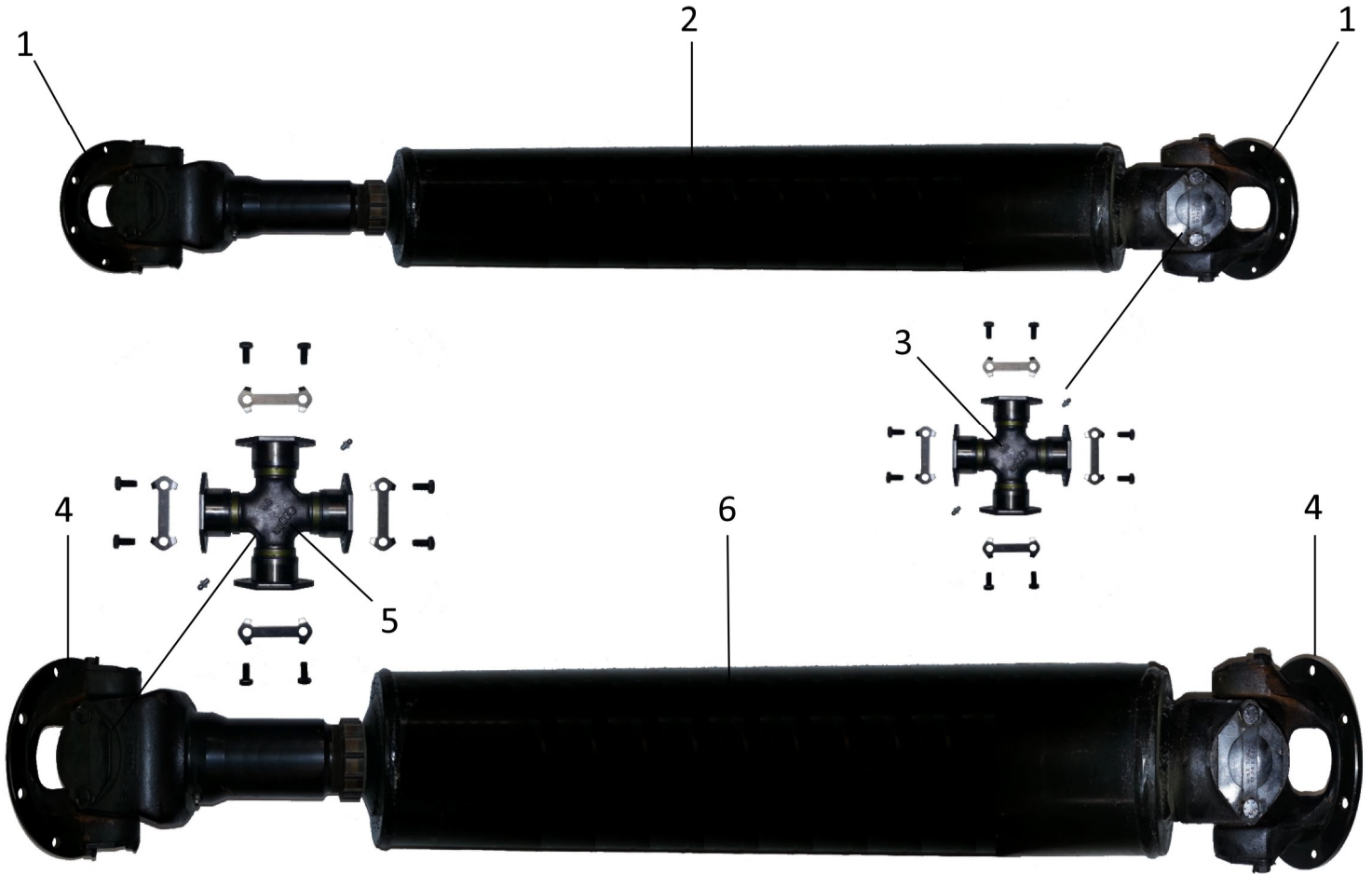
ITEM NO.	QTY.	DESCRIPTION	PART NUMBER
32	1	BELL HOUSING CLUTCH	P111-0003
31	1	BELL HOUSING SAE #2	083-0061
30	1	BRACKET ASSEMBLY	076-0737
29	2	TOOTH LOCKWASHER 1"	075-0070
28	1	INTERNAL TOOTH LOCKWASHER	075-0052
27	1	INTERNAL TOOTH LOCKWASHER	075-0048
26	1	5/16 LOCK WASHER	075-0007
25	1	5/8-18 UNF JAM NUT	074-0021
24	1	9/16-18 UNF JAM NUT	074-0020
23	2	JAM NUT 1"-1/4 UNC	074-0019
22	1	LOCK WASHER	066-0036
21	1	LOCKNUT	065-0135
20	1	HEX BOLT 5/16-18 X 0.75 LG	063-0012
19	1	LOCK CLIP	061-0291
18	1	BEARING NUT	061-0288
17	1	SHAFT	061-0286
16	1	TAPER KEY	058-2139
15	1	SHAFT KEY	058-1521
14	1	NAMEPLATE	053-0028
13	1	DOUBLE ROW BALL BEARING	051-0080
12	2	1/4-20 X .375 LG. PAN HEAD SCREW	047-0052
11	1	1/4-20 UNC X .50 LG. SET SCREW	040-0074
10	1	1/16-27 NPT PIPE PLUG	040-0001
9	1	HYDRAULIC HOSE ASSEMBLY	034-0291
8	1	1/8NPT MALE X 1/4 FLARE FEMALE HOSE	034-0263
7	1	ELBOW 1/8NPTX1/4 37 DEG.FLARE	034-0232
6	1	SAE ELBOW	034-0154
5	1	BULKHEAD FITTING - STRAIGHT	034-0069
4	1	BULKHEAD FITTING	031-0061
3	2	GREASE FITTING	031-0034
2	2	TAPERED ROLLER BEARING	019-016A&B
1	1	DRIVE RING	016-0312

LOGAN CLUTCH CORPORATION
 11500 W. 111TH AVE., SUITE 100
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 WWW: WWW.LOGANCLUTCH.COM
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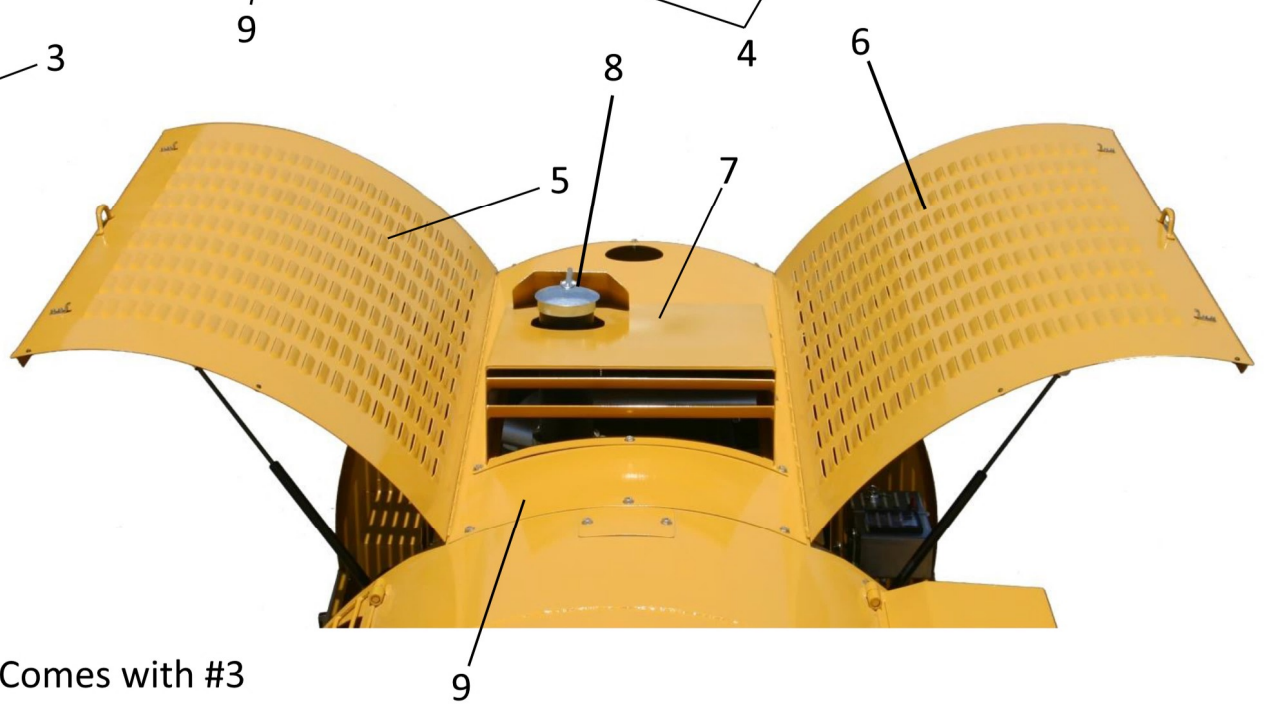
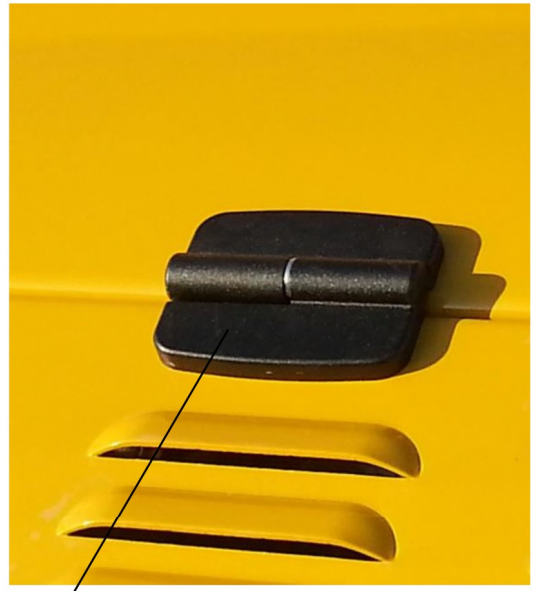
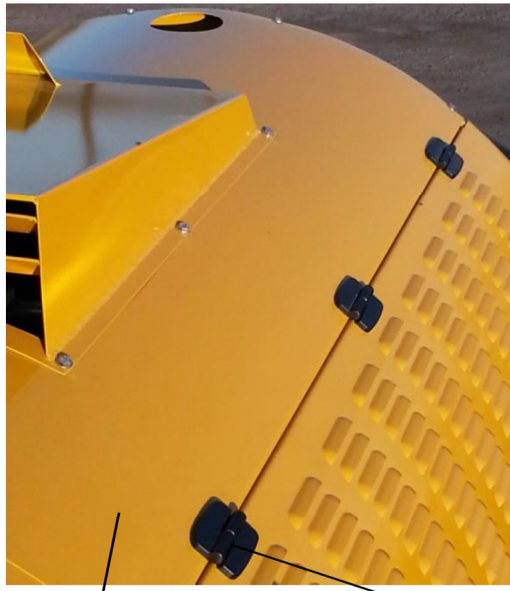
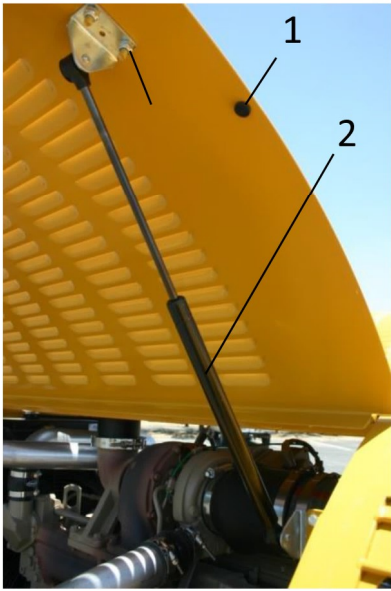
SCALE: 1:1
 DATE: 11/15/03
 DRAWN: J. H. HARRIS
 CHECKED: J. H. HARRIS
 APPROVED: J. H. HARRIS
 PART NUMBER: LC111-HP301

DRIVELINE ASSEMBLY



Item#	Part#	Description	Qty
1	7419	Flange (2) Required - 500 - 600 Gallon	1
2	7416	Driveline Assembly (Specific To Model And Gallonage) - Please Provide Length	1
3	7418	Cross Kit 500-600 Gallon	1
4	7419A	Flange Yoke (2) Required - 1000 Gallon	1
5	7418A	Cross Kit 1,000 Gallon	1
6	7417	Driveline Assembly (Specific To Model And Gallonage) - Please Provide Length	1

HOOD ASSEMBLY

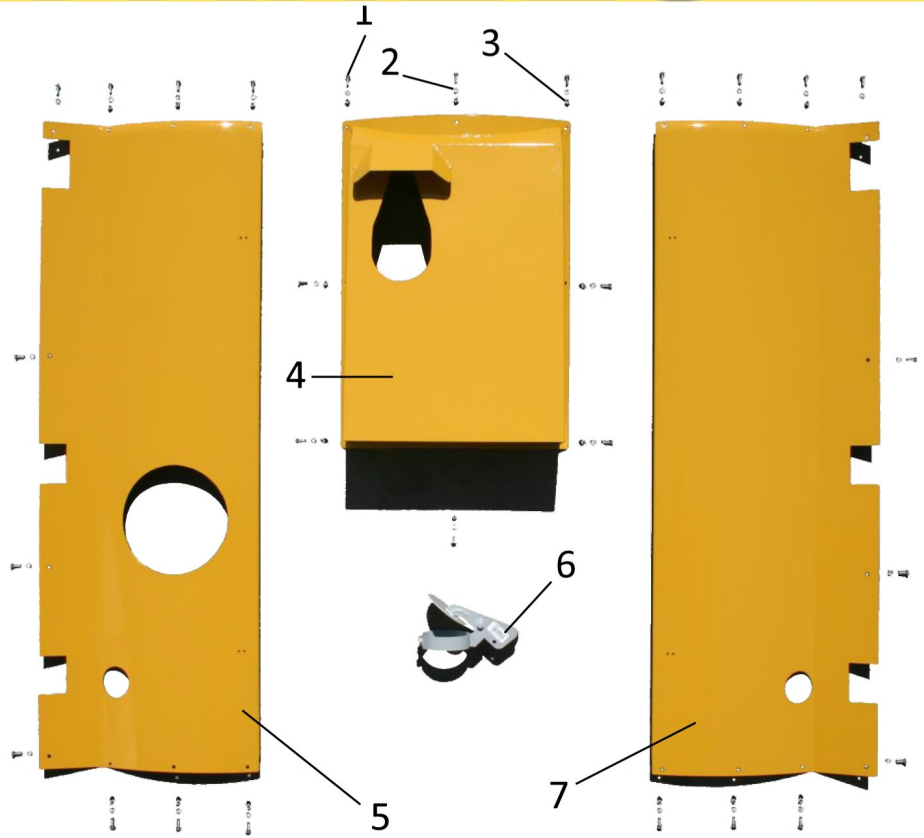


Comes with #3

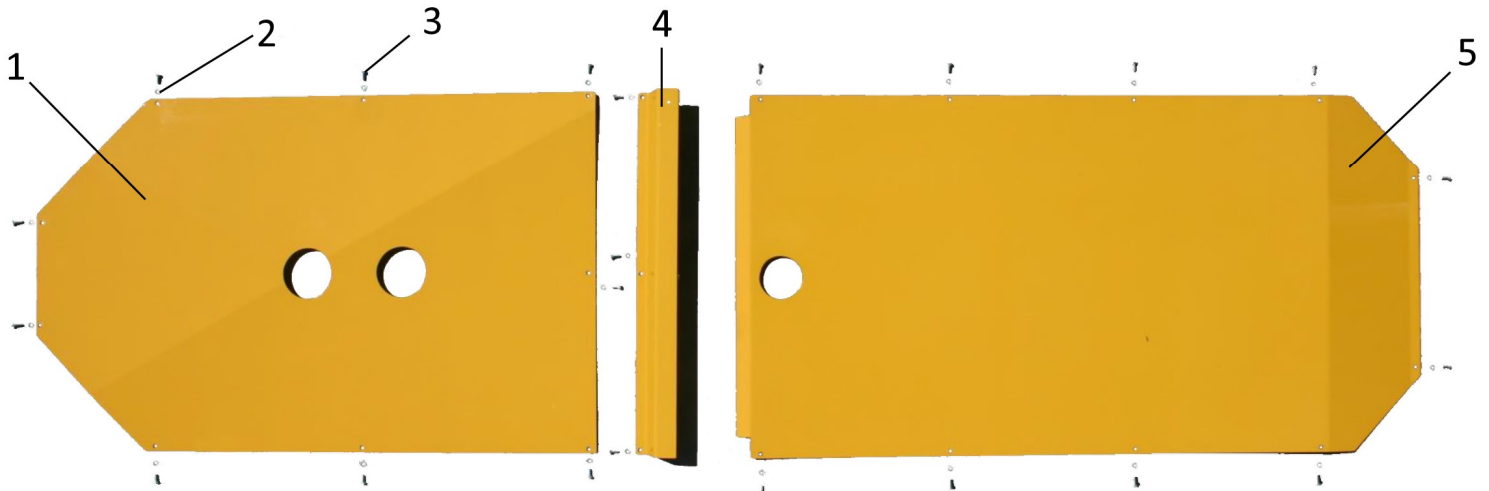
Item#	Part#	Description	Qty
1	7662	Hood Bumper	16
2	1076G	Gas Shock	4
3	313	Hood Latch	4
4	315	Hood Hinge	6
5	7051	Left Door	1
6	7052	Right Door	1
7	7663	Heat Vent	1
8	7117	Rain Cap	1
9	7059	Hood Center Section - Specify model and tank	1

SIDE PANELS

Item#	Part#	Description	Qty
1	2915	5/16" x 3/4" SS Bolt	1
2	2921	5/16" SS Flat Washer	1
3	2924	Nylock Nut	1
4	7663A	Heat Vent	1
5	7055	Left Hand Side Panel	1
6	7117	4" Rain Cap	1
7	7056	Right Hand Side Panel	1

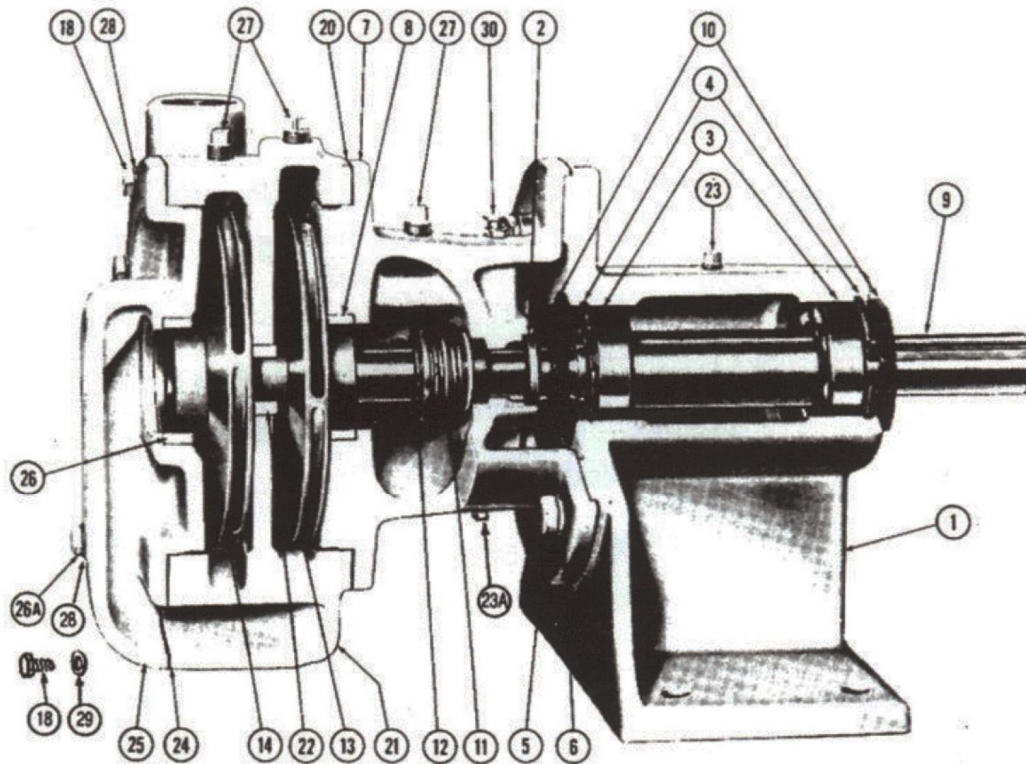


BELLY PAN GUARDS



Item#	Part#	Description	Qty
1	7748	Front Belly Pan	1
2	2251	3/8" Lock Washer	21
3	2252	3/8" x 3/4" Bolt	21
4	7749	Guard Fuel Line Crossover	1
5	7747	Rear Belly Pan	1

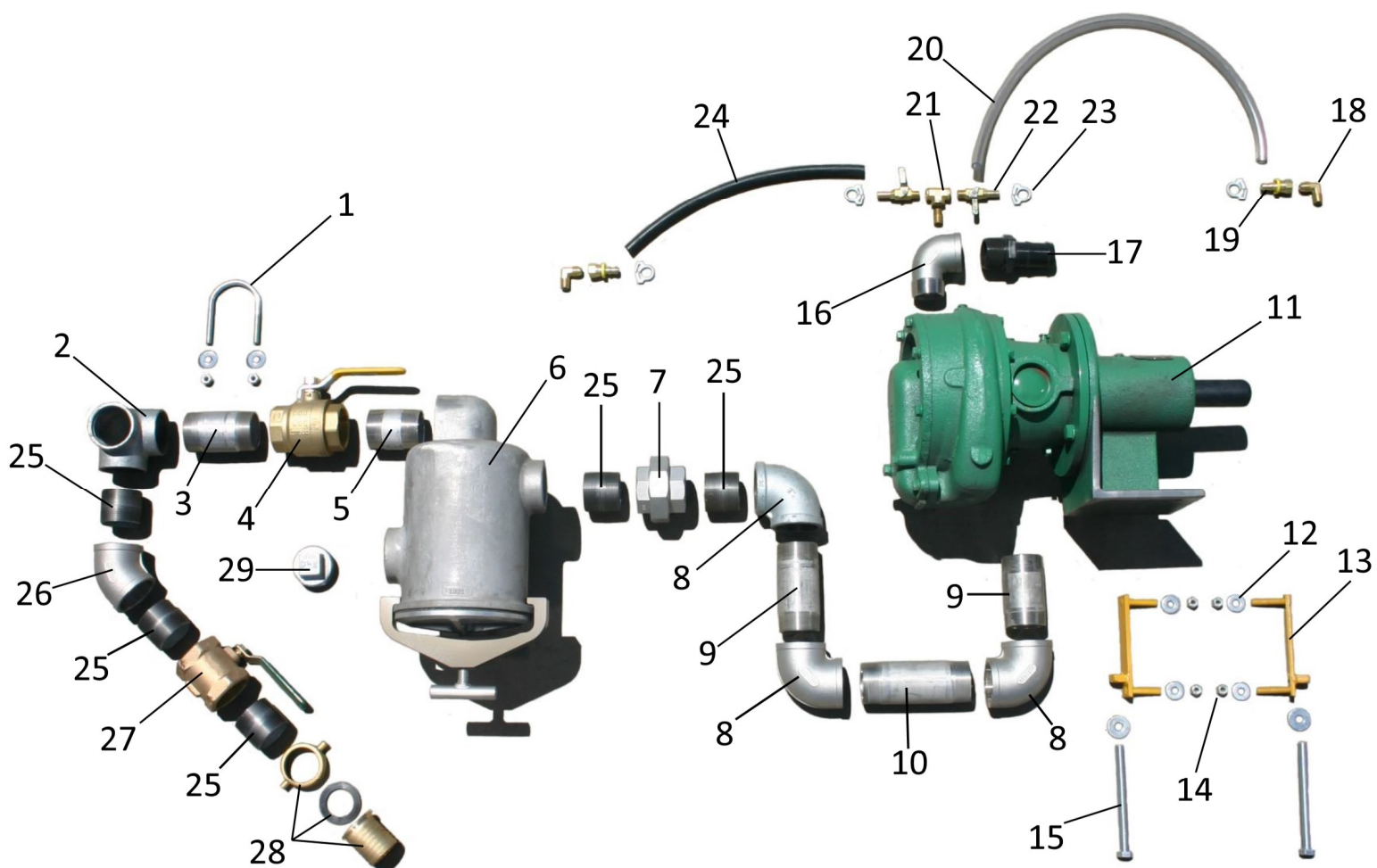
MYERS CENTRIFUGAL PUMP PARTS



ITEM #	PART #	DESCRIPTION	QTY	ITEM #	PART #	DESCRIPTION	QTY
1	7154	BRACKET, BEARING	1	*	7171	LOCKWASHER, 3/8"	1
2	7155	SEAL, OIL	1	18	7172	SCREW, CAP 3/8" - 16 UNC X 7/8"	16
3	7156	BEARING	2	20	7174	GASKET, PAPER	1
4	7157	RING, SNAP, BEARING RETAINER	2	21	7175	CASE, VOLUTE W/ WEARING RING	1
5	7158	SCREW, CAP 1/2" - 13 UNC X 1 1/4"	4	22	7176	RING, WEARING FOR VOLUTE CASE	1
6	7159	LOCK WASHER, 1/2"	4	23	7177	PLUG, PIPE 1/8"	5
7	7160	BRACKET, SEAL, W/ WEARING RING	1	23A	7178	PLUG, PIPE 1/4"	2
8	7161	RING, WEARING, FOR SEAL BRACKET	1	24	7179	GASKET, PAPER, BACKPLATE TO VOLUTE CASE	1
9	7162	SHAFT, PUMP	1	25	7180	BACKPLATE, W/ WEARING RING	1
10	7163	SLINGER	2	26	7181	RING, WEARING FOR BACKPLATE	1
11	7164	SEAL, SHAFT	1	26A	7182	SCREW, CAP 3/8" - 16 UNC X 2"	2
12	7165	RING, SNAP, SEAL RETAINER	1	27	7183	PLUG, PIPE 1/4"	12
13	7166	IMPELLER, INNER	1	28	7184	WASHER, SEAL FASTENER 3/8"	16
14	7167	IMPELLER, OUTER	1	29	7173	LOCKWASHER, 3/8"	2
*	7168	KEY, 3/16 X 3/16 X 2", FOR IMPELLERS	1	30	7185	CUP, OIL 1/8" NPT	1
*	7169	WASHER, IMPELLER RETAINER	1				
*	7170	SCREW, CAP 3/8" - 16 UNC X 1"	1				

* Internal parts not visible

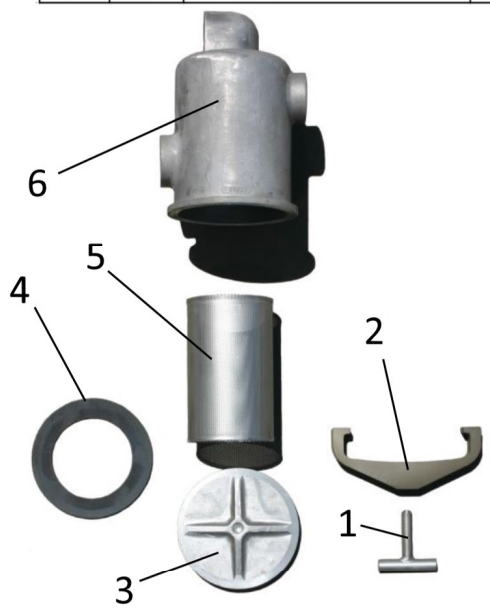
SUCTION PLUMBING & FILTER ASSEMBLY



Item#	Part#	Description	Qty
1	7664	U bolt And Washers	1
2	7130	Side Outlet 90° Elbow 2"	1
3	2866A	2" x 3 1/2" Nipple Stainless	1
4	7137	Ball Valve	1
5	2866	2" x 3" Nipple Stainless	1
6	1025	Complete Filter Assembly	1
7	7140	Union 2"	1

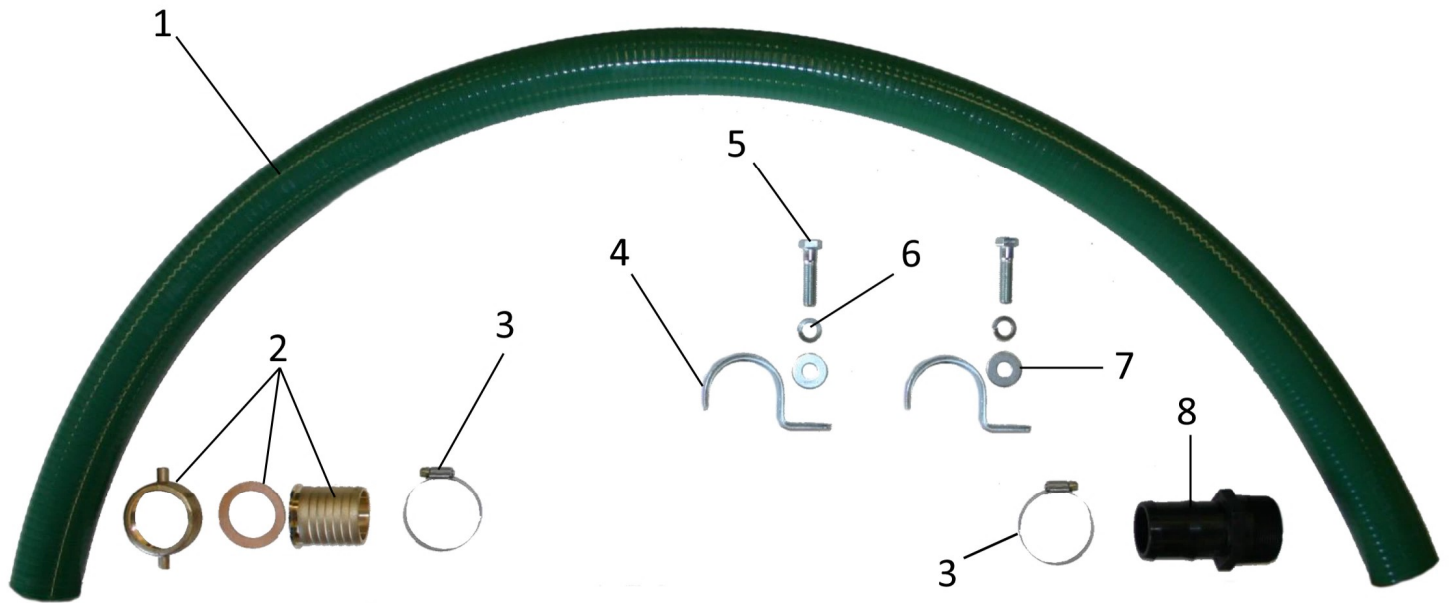
Item#	Part#	Description	Qty
8	2864	Elbow 90° 2"	3
9	2668	Nipple 2" x 4" Stainless	2
10	2869	Nipple 2" x 6" Stainless	1
11	7146	Myers Pump	1
12	2250	3/8" Lock Washer	4
13	6124	Tensioner Mount Plate	2
14	2253	3/8" Nylon Lock Bolt	4
15	6125	Tensioner Bolts	2
16	2856	1 1/2" 90° Street Elbow Stainless	1
17	5115	1 1/2" Nyglass Nipple	1
18	5032	149F - 6-4 Fittings	2

Item#	Part#	Description	Qty
19	5033	3/8" Swivel Fitting	2
20	7672	Hose 3/8"	1
21	6303	Tee Fitting	1
22	1604	Specialty Valve	2
23	2479	Clamp	4
24	5042	3/8" Hose	1
25	2865	2" Close Nipple Stainless	5
26	2860	2" 45° Elbow Stainless	1
27	7193	2" Butterfly Valve	1
28	7130	2" Fire Hose Connection	1
29	2867	2" Plug	1



Item#	Part#	Description	Qty
1	1016	Tee Bolt	1
2	1017	Yoke	1
3	1018	Lid	1
4	1019	Gasket	1
5	1028	Screen	1
6	1021	Housing	1

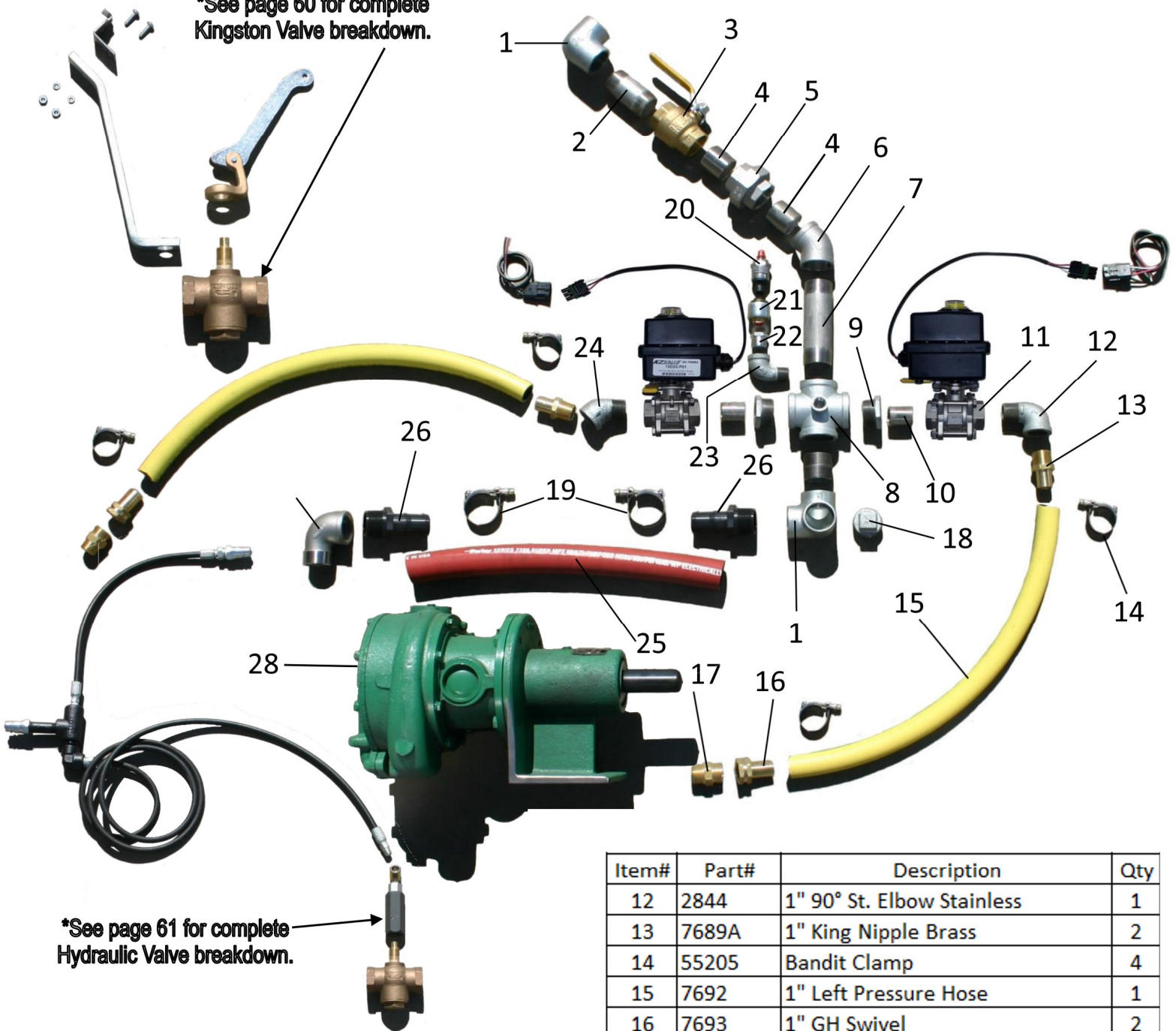
SUCTION PLUMBING From Tank



Item#	Part#	Description	Qty
1	5103A	2" Suction Hose	1
2	7130	2" Fire Hose Connection	1
3	2459	Hose Clamp 2"	2
4	2486	2" One Hole Conduit Clamp	1
5	2300	1/2" x 2" Bolt	2
6	2291	1/2" Lock Washer	2
7	2290	1/2" Flat Washer	2
8	7125	2" Nyglass King Nipple	1

DISCHARGE PRESSURE PLUMBING

*See page 60 for complete Kingston Valve breakdown.

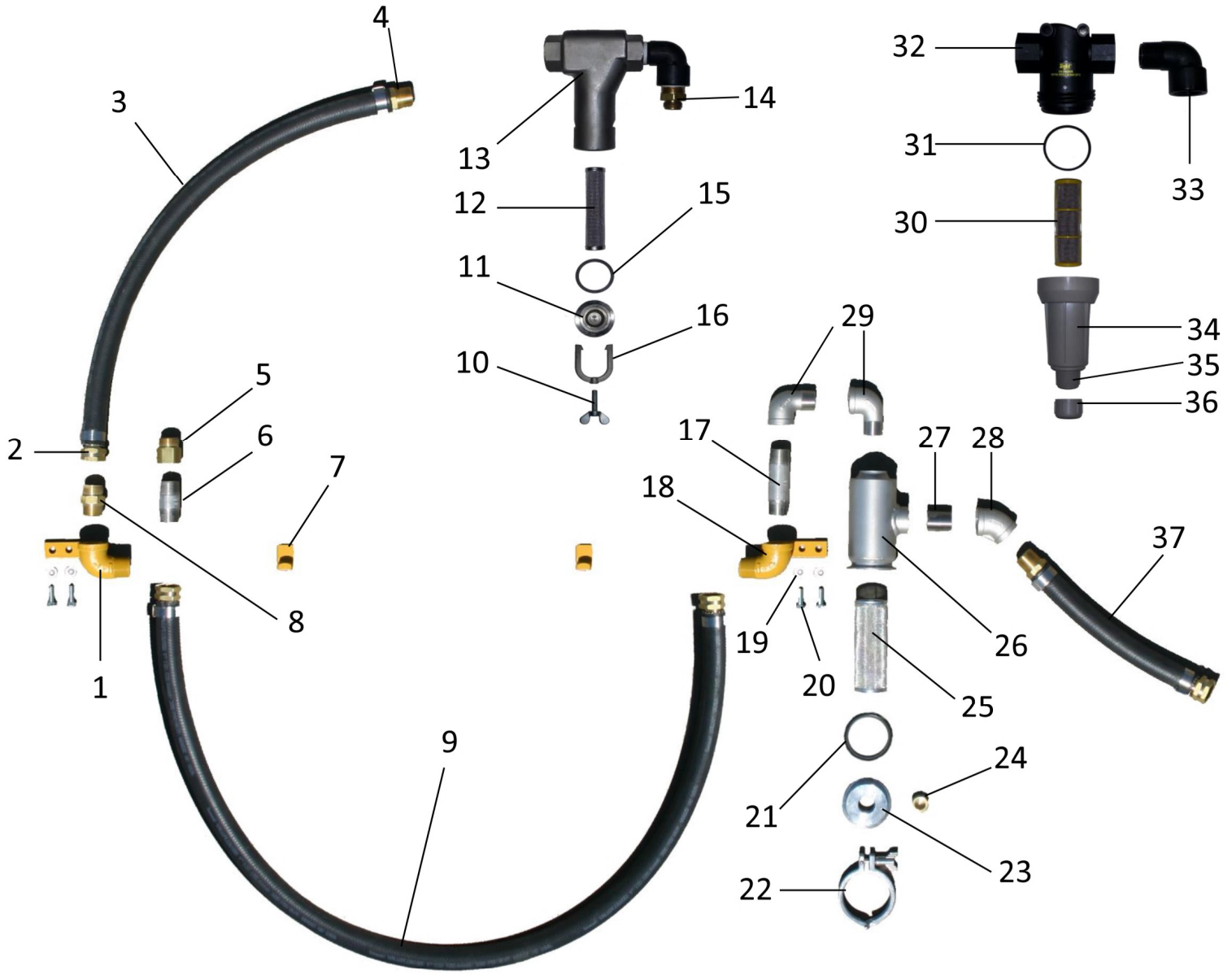


*See page 61 for complete Hydraulic Valve breakdown.

Item#	Part#	Description	Qty
1	2659	1 1/2" Side Outlet Elbow	2
2	2859	1 1/2" x 3 1/2" Stainless Nipple	1
3	5092	1 1/2" Ball Valve	1
4	2857	1 1/2" Close Nipple	2
5	7258	1 1/2" Union	1
6	2856A	1 1/2" 45° Elbow Stainless	1
7	2852	1 1/2" x 6" Nipple Stainless	1
8	7677	Special Cross	1
9	2853	1 1/2" x 1" Hex Bushing Stainless	2
10	2839	1" Close Nipple	2
11	6152	1" KZ Valve	2

Item#	Part#	Description	Qty
12	2844	1" 90° St. Elbow Stainless	1
13	7689A	1" King Nipple Brass	2
14	55205	Bandit Clamp	4
15	7692	1" Left Pressure Hose	1
16	7693	1" GH Swivel	2
17	7693	1" GH Adapter	2
18	2858	1 1/2" Plug Stainless	1
19	7675	TC 181 Clamps	2
20	11044499	Pressure Transducer	1
21	2031	Isolator	1
22	2821	3/4" x 1/4" Hex Bushing Stainless	1
23	2825	3/4" 90° ST. Elbow Stainless	1
24	7678	1" 450 ST. Elbow	1
25	7674	1 1/2" Pressure Valve	1
26	5115	1 1/2" Nylon Glass King Nipple	1
27	2856B	1/2" 90° ST. Elbow Stainless	2
28	7146	Myers Pump	1

PRESSURE FILTER ASSEMBLY

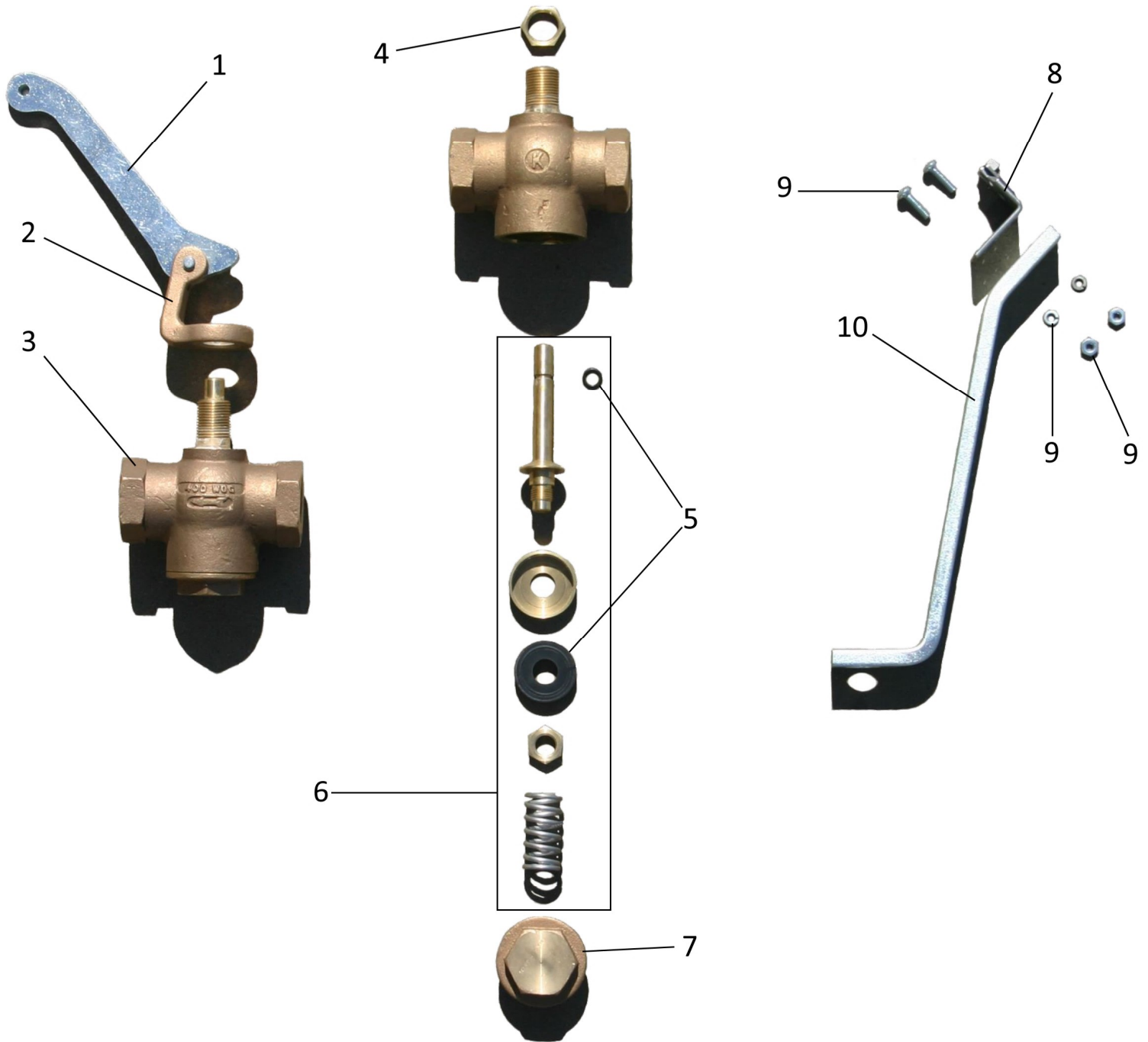


Item#	Part#	Description	Qty
1	7694L	Connector	1
2	7693A	1" GH Swivel	1
3	7691	Pressure Hose	1
4	7805	King Nipple	1
5	7693B	Adapter	1
6	2841	Nipple	1
7	7692A	Clamp	1
8	7693	MxM Adapter	1
9	7690	Pressure Hose	1
10	5077T	T Bolt	1
11	5077C	Cap	1
12	5078	Screen	1
13	5077S	Filter Assembly	1

Item#	Part#	Description	Qty
14	7693	Adapter Fitting	1
15	5077G	Gasket	1
16	5077U	Clamp	1
17	2841A	Nipple	1
18	7694R	Elbow	1
19	2251	Washer	1
20	2256	Bolt	1
21	5083	Gasket	1
22	5085	Clamp	1
23	5084	Cap	1
24	2584	Plug	1
25	5082	Screen	1
26	5081	Filter Assembly	1

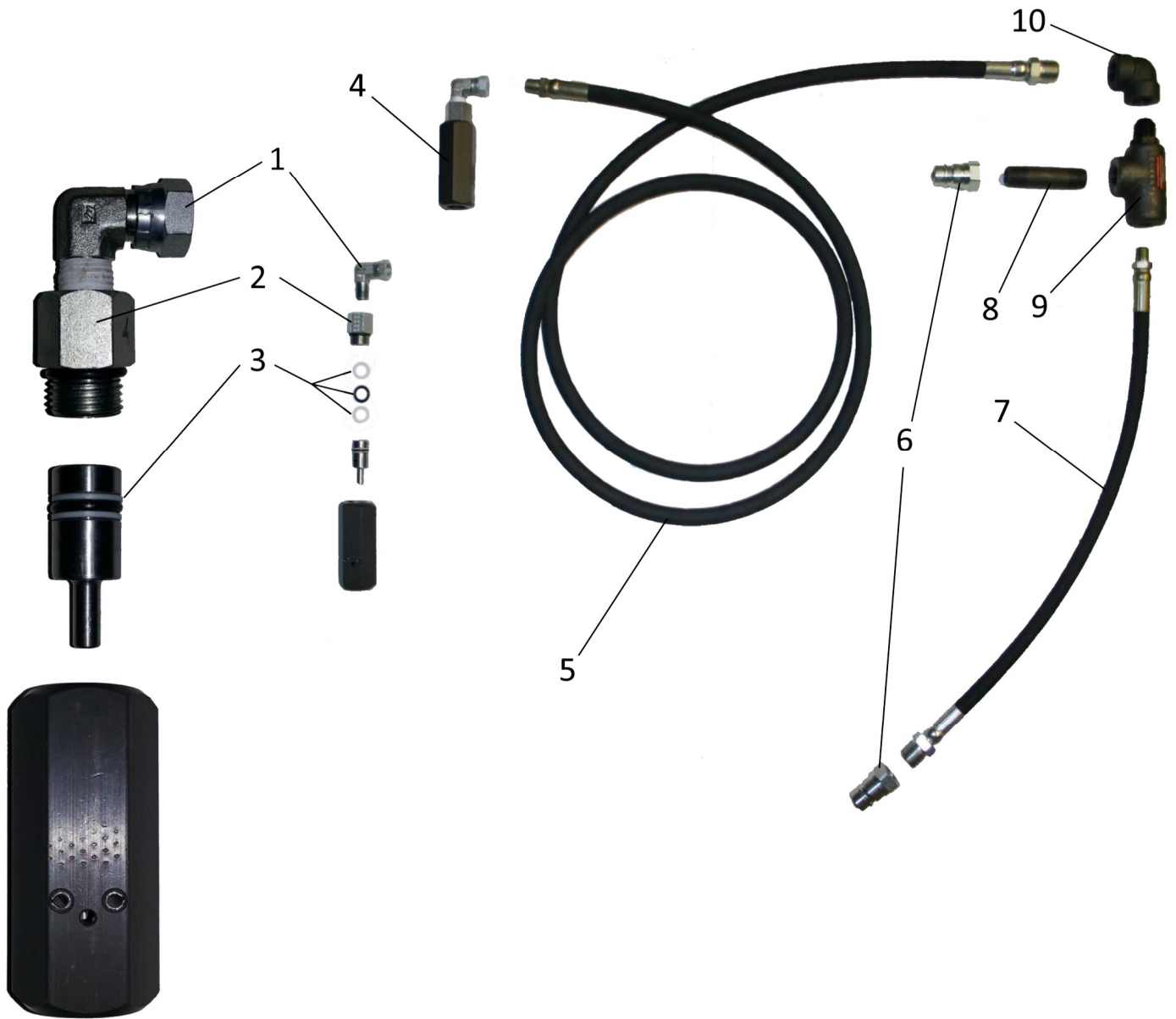
Item#	Part#	Description	Qty
27	2839	Close Nipple	1
28	2837	45° Elbow	1
29	2845	St. Elbow	1
30	6354	Screen - Grey	1
30	6355	Screen - Yellow	1
30	6356	Screen - Red	1
31	6357	Gasket	1
32	6352	Head	1
33	6361	Poly St. Elbow	1
34	6358	Bowl	1
35	6359	Gasket	1
36	6360	Cap	1
37	7694	Pressure Hose	1

KINGSTON VALVE ASSEMBLY



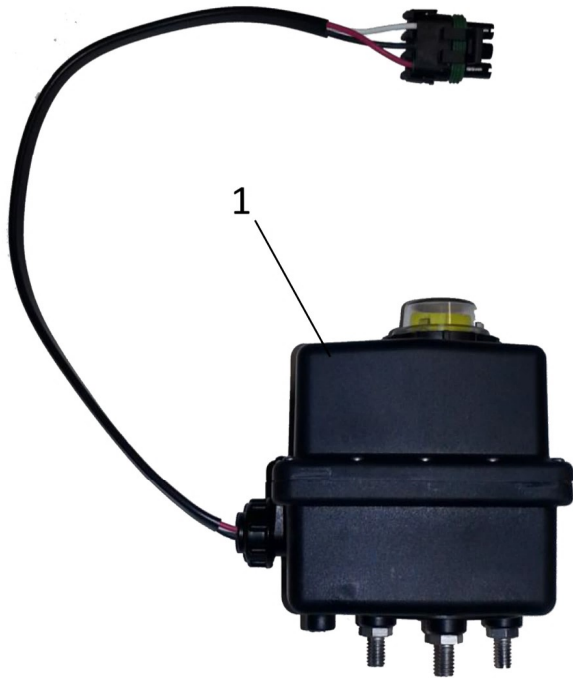
Item#	Part#	Description	Qty
1	922	Lever	1
2	938	Valve Yoke	1
3	946	1" Kingston Valve	1
4	939	Nut	1
5	932-KIT	Seal Kit	1
6	946-KIT	Stem Kit	1
7	945	Cap	1
8	732	Cable Clip	1
9	2390	Screw kit	1
10	747	Bracket	1

HYDRAULIC ACTUATOR ASSEMBLY



Item#	Part#	Description	Qty
1	6163	90° Fitting	1
2	6162	Reducer Bushing	1
3	6161	Seal Kit	1
4	6160	Actuator Assembly	1
5	6164	Hydraulic Hose	1
6	6146	Hydraulic Coupling	1
7	6165	Hydraulic Hose	1
8	3087	1/2" x 3" Nipple	1
9	6166	Hydraulic Check Valve	1
10	3086	1/2" 90° Elbow	1

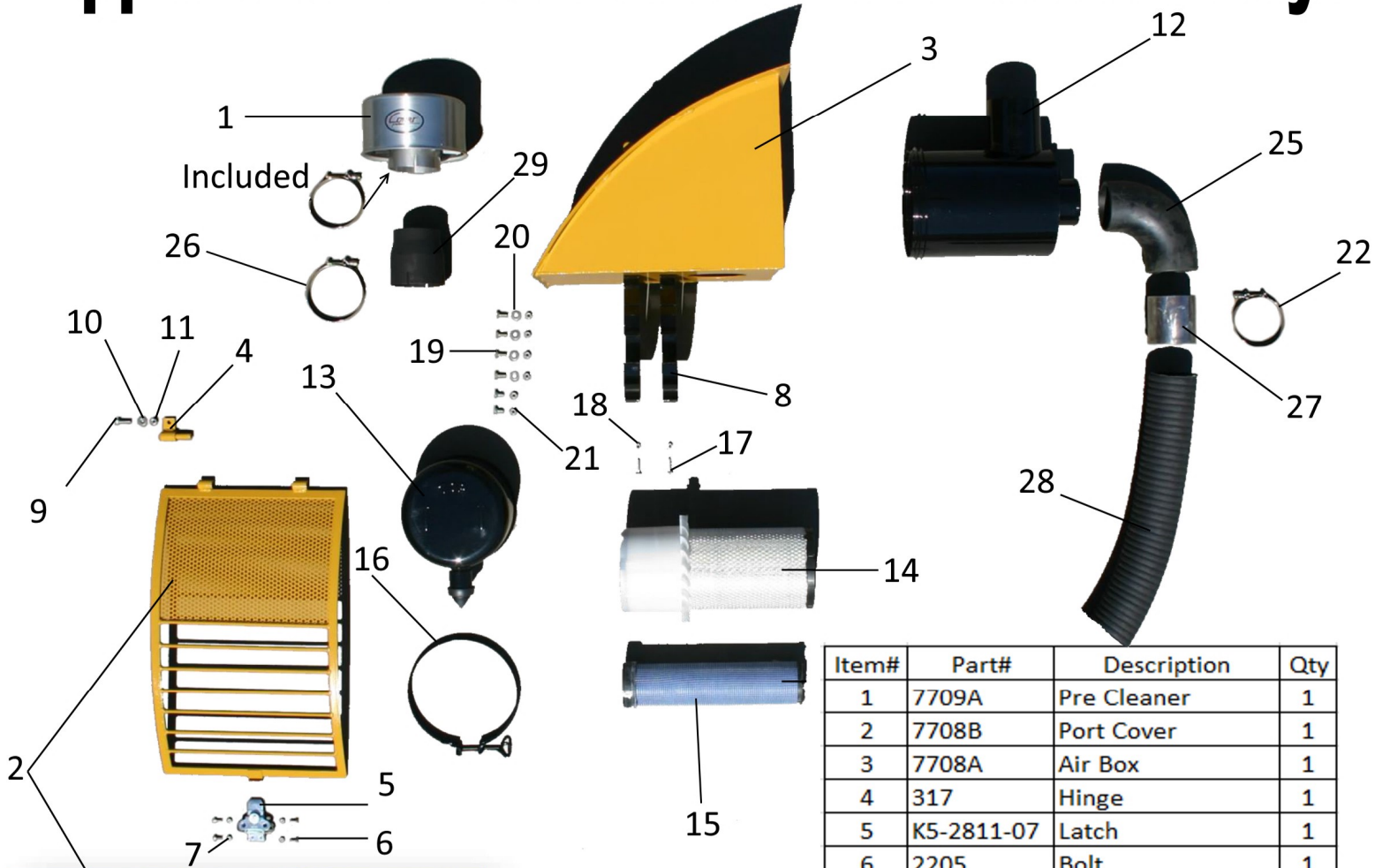
ELECTRIC ACTUATOR ASSEMBLY



Item#	Part#	Description	Qty
1	6152B	Actuator	1
2	6152C	KZ Valve Only - No Motor	1
3	6152	KZ Valve Complete	1

PRE-CLEANER & AIR-INTAKE ASSEMBLY

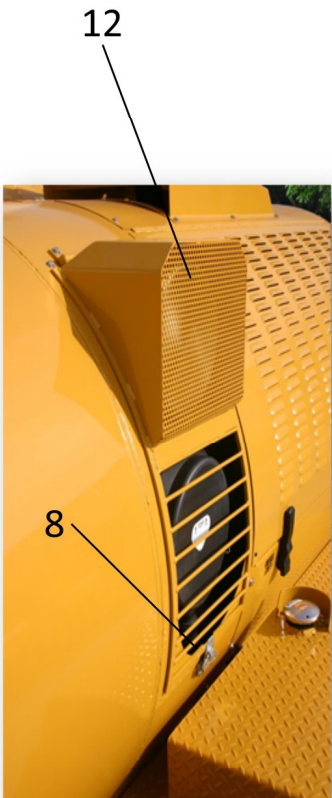
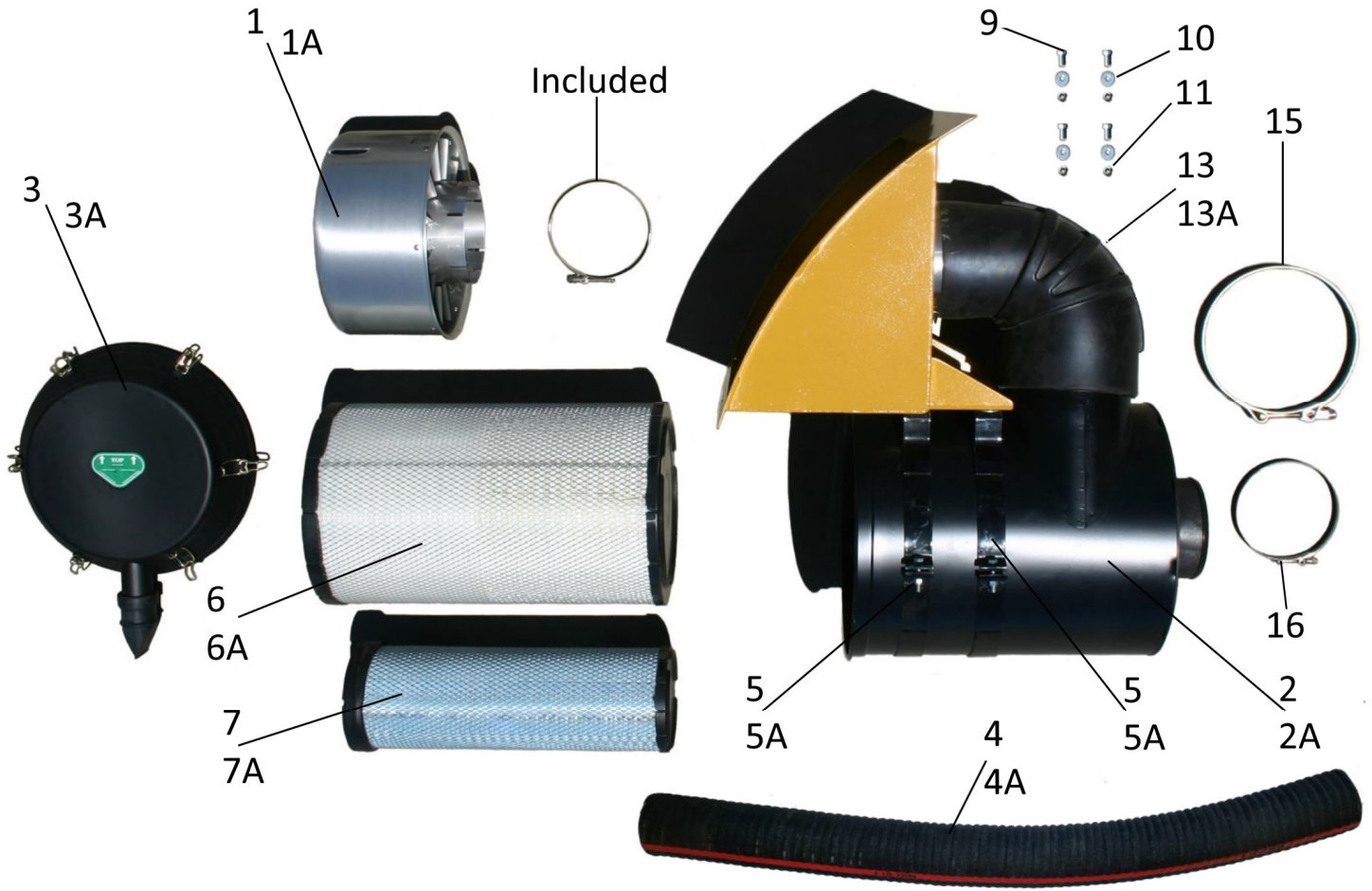
***Applies to the D-2/36 & D-40R models only!**



Item#	Part#	Description	Qty
1	7709A	Pre Cleaner	1
2	7708B	Port Cover	1
3	7708A	Air Box	1
4	317	Hinge	1
5	K5-2811-07	Latch	1
6	2205	Bolt	1
7	2203	Nut	1
8	P004073	Mounting Band	2
9	2227	Bolt	1
10	2220	Washer	1
11	2223	Nut	1
12	G090245	Air Filter Assembly	1
13	P600657	Cover	1
14	P601280	Outer Filter	1
15	P60L286	Inner Filter	1
16	P102025	Clamp	1
17	2209	Bolt	1
18	2202	Nut	1
19	2915	Bolt	1
20	2921	Flat Washer	1
21	2924	Nut	1
22	7882	Clamp	1
23	7881	Clamp	1
24	7883	Clamp	1
25	7885	Elbow	1
26	7881	Clamp	1
27	7910	Connector	1
28	7911	4" Hose	1
29	7920	5" Connector	1

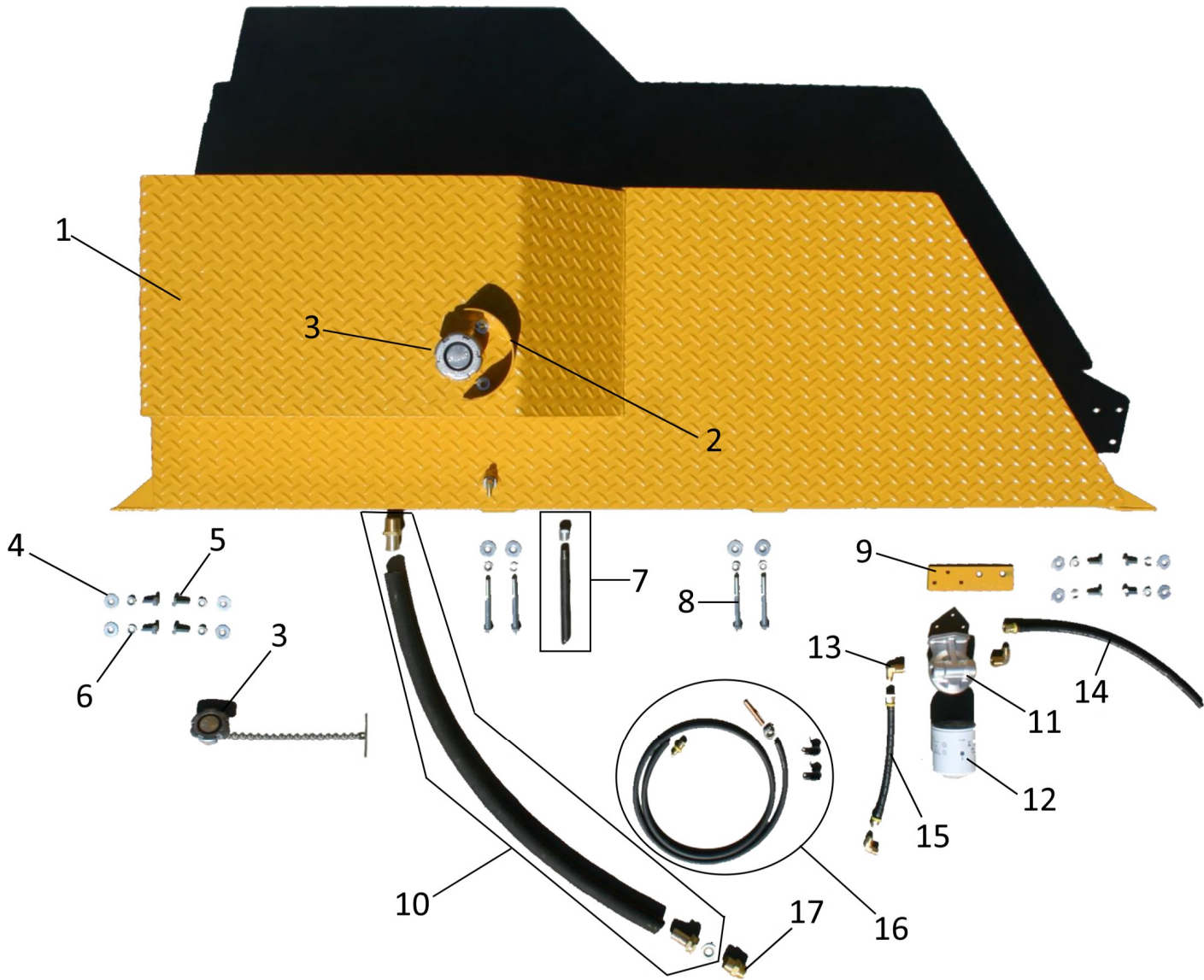
PRE-CLEANER & AIR-INTAKE ASSEMBLY

***Applies to the D-2/40 & D-2/45 models only!**



Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	7709B	Pre Cleaner D2/40	1	7	P537877	Inner Filter D2/40	1
1A	7709C	Pre Cleaner D2/45	1	7A	P777869	Inner Filter D2/45	1
2	7699	Filter Housing D2/40	1	8	K5-2811-07	Latch	1
2A	7699A	Filter Housing D2/45	1	9	2915	Bolt	1
3	P538259	Lid	1	10	2921	Washer	1
3A	P777920	Lid	1	11	2924	Nut	1
4	7705	Air Intake 4"	1	12	7913	Pre Cleaner Guard	1
4A	7705A	Air Intake 5"	1	13	P109021	Elbow D2/40	1
5	7700	Mounting Bands	1	13A	P143895	Elbow D2/45	1
5A	7700A	Mounting Bands	1	14	7708C	Air Box	1
6	P537876	Outer Filter D2/40	1	14A	7708D	Air Box	1
6A	P777868	Outer Filter D2/45	1	15	7884	Clamp	1
				16	7886	Clamp	1

FUEL TANK ASSEMBLY



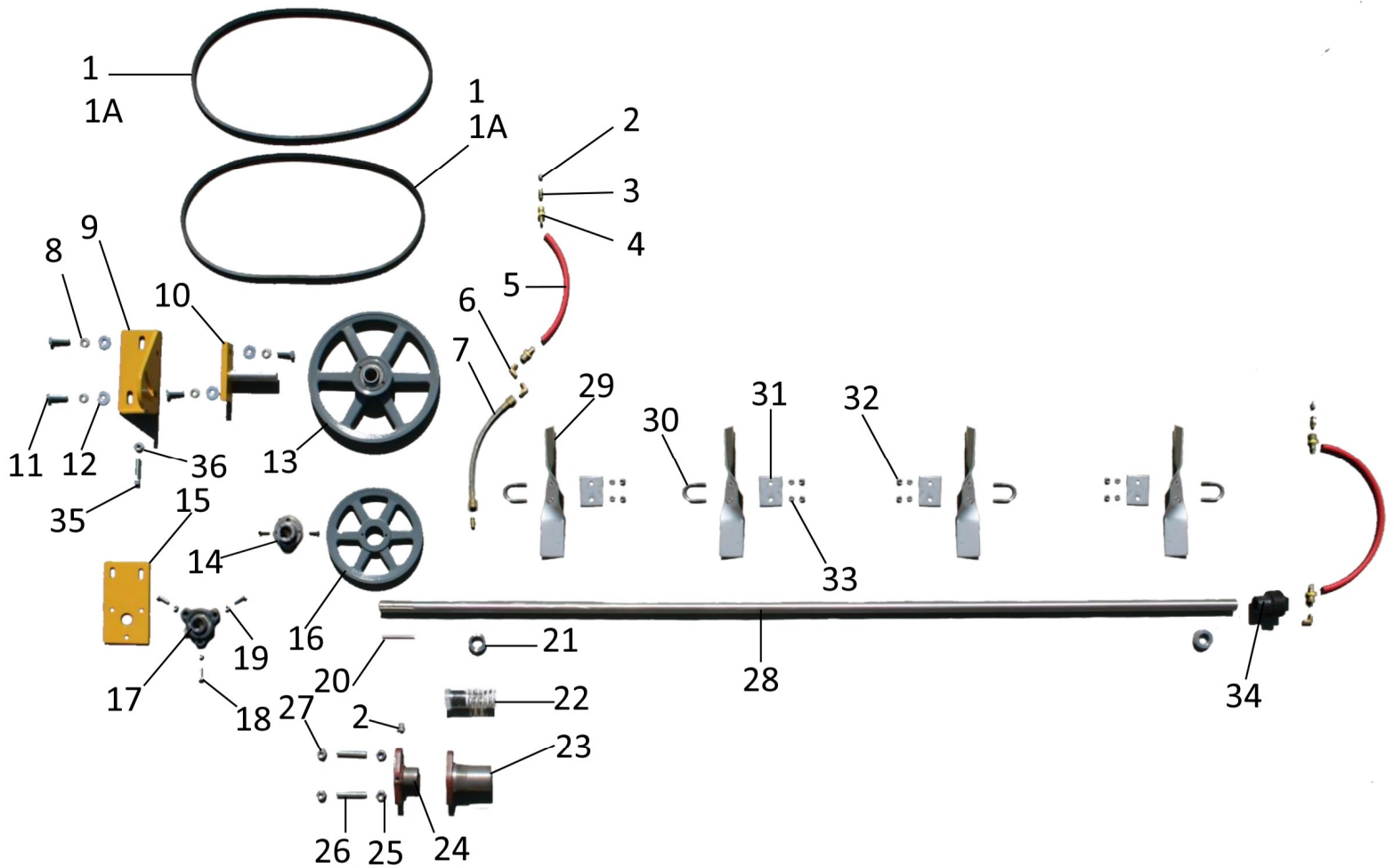
Item#	Part#	Description	Qty
1	7717	Fuel Tank, Specify Left Or Right	1
2	7721A	Cap Guard	1
3	7721	Fuel Cap	1
4	2290	1/2" Flat Washer	1
5	2296	1/2" Bolt	1
6	2291	1/2" Lock Washer	1
7	7718	Pickup Tube	1
8	2308	1/2" x 4" Bolt	1
9	7722	Filter Bracket	1
10	7719	Fuel Cross Over Hose	1
11	7652	Filter Mount	1
12	7653	Fuel Filter	1
13	7650	Fitting	1
14	7651	Fuel Hose	1
15	7655	Fuel Hose	1
16	7649	Fuel Hose Assembly	1
17	7693A	1" GH Fitting	1

FILL STRAINER & LID ASSEMBLY



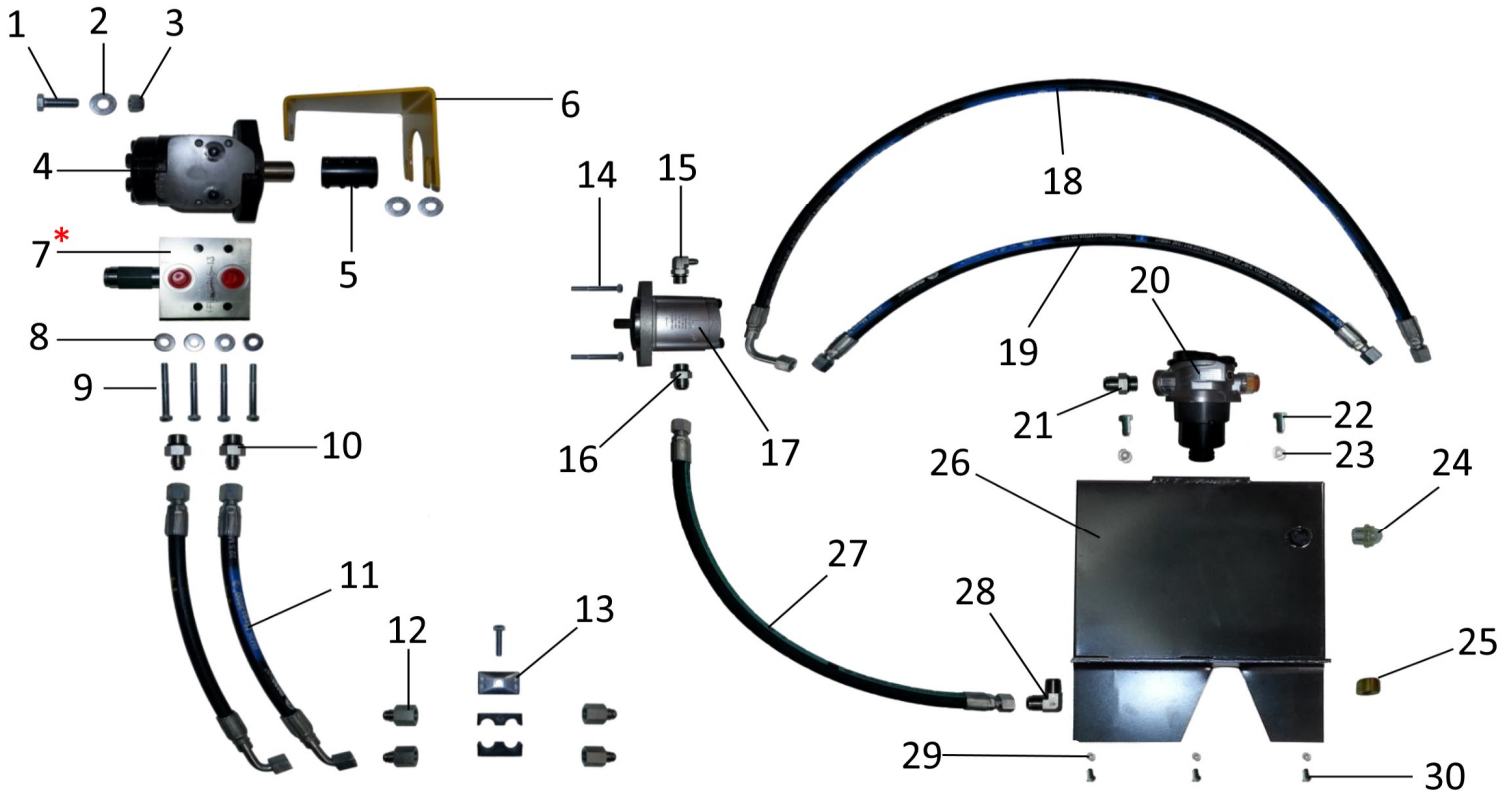
Item#	Part#	Description	Qty
1	813	Lid	1
2	5906	Breather	1
3	2252	Nut	1
4	4006	Hook Bolt	1
5	814B	Lid Gasket	1
6	5913	Special Bolt	1
7	5910	Cap Screw	1
8	5911	Hex Nut	1
9	4005	Handle	1
10	5912	Mounting Bracket	1
11	4004	Complete Latch Assembly	1
12	5907	Nylon Lock Nut 3/8"	1
13	5908	Bolt 3/8" x 4 1/2"	1
14	816	Basket Frame	1
15	815	Screen only	1
16	811	Tank Basket Complete	1

AGITATOR ASSEMBLY



Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	4023	Agitator Belt - A51- 500 Gallon	2	18	2257	3/8" Bolt	3
1A	1301	Agitator Belt - A55- 1000 Gallon	2	19	2254	3/8" Flange Nut	3
2	7735	Grease Zerk	3	20	7730	1/4" Key	1
3	7734	Adapter	3	21	1519	1" Set Collar	1
4	5036	Swivel Fitting	4	22	1555	Seal kit	1
5	7732	Hose	2	23	1511B	Packing Box	1
6	7733	90° Fitting	3	24	1547A	Packing sleeve	1
7	5180	Braided Hose	1	25	2292	Nut	2
8	2290	Washer	2	26	2386	Stud	2
9	7912	Idler Mount	1	27	2293	Nylon Lock Nut	2
10	7725	Idler Shaft And Mount	1	28	7727	500 Gallon - Agitator Shaft	1
11	2297	Bolt	2	28	7728	600 Gallon - Agitator Shaft	1
12	2968	Washer	1	28	7729	1000 Gallon - Agitator Shaft	1
13	7724	Idler Pulley	1	29	5145	Paddle	2
14	7723	H1Bushing	1	30	5149	U bolt	4
15	7377	Bearing plate	1	31	5146	Spacer	4
16	1544	AK114H Pulley	1	32	5147	1/4" Nut	8
17	5139	3 Bolt Bearing	1	33	5148	Lock Washer	8
				34	1530A	Bushing	1

HYDRAULIC DRIVE AGITATOR ASSEMBLY

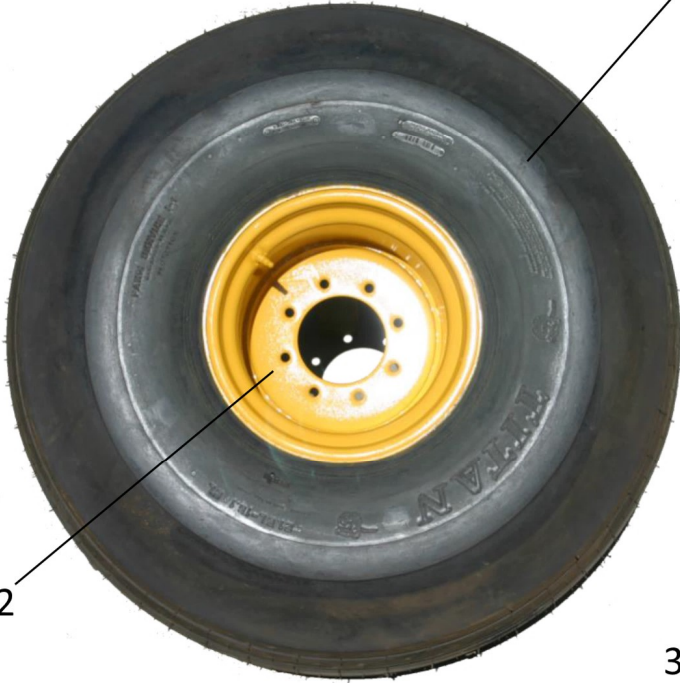


Item#	Part#	Description	Qty
1	2962	Bolt	1
2	2968	Washer	1
3	2971	Locknut	1
4	7887	Agitator Motor	1
5	7888	Coupling	1
6	7889	Bracket	1
7	255070A1110A	Motor	1
8	2220	Washer	1
9	2234	Bolt	1
10	MB-MJ-8-6	Fitting	1
11	6M3K-6FJX-6FJ90S-14	Hose	1
12	MJ-FP-6-6	Fitting	1
13	7916	Clamp	1
14	3609/19	Socket Head 10 MM	1
15	MB-MJ90-10-6	Fitting	1

Item#	Part#	Description	Qty
16	MB-MJ-12-12	Fitting	1
17	9510290040	Hydraulic Pump	1
18	6M3K-6FJX-6FJX90S-48	Hose	1
19	6M3K-6FJX-6FJX-32	Return Hose	1
20	R928055398	Return Filter	1
21	MB-MJ-12-12	Fitting	1
22	2256	Bolt	1
23	2253	NyLock Nut	1
24	7917	Level Indicator	1
25	7918	Plug	1
26	7909	Hydraulic Tank	1
27	12GMV-12FJX-12FJX-38	Suction Line	1
28	MJ-MP90-12-12	Fitting	1
29	2253	NyLock Nut	1
30	2256	Bolt	1

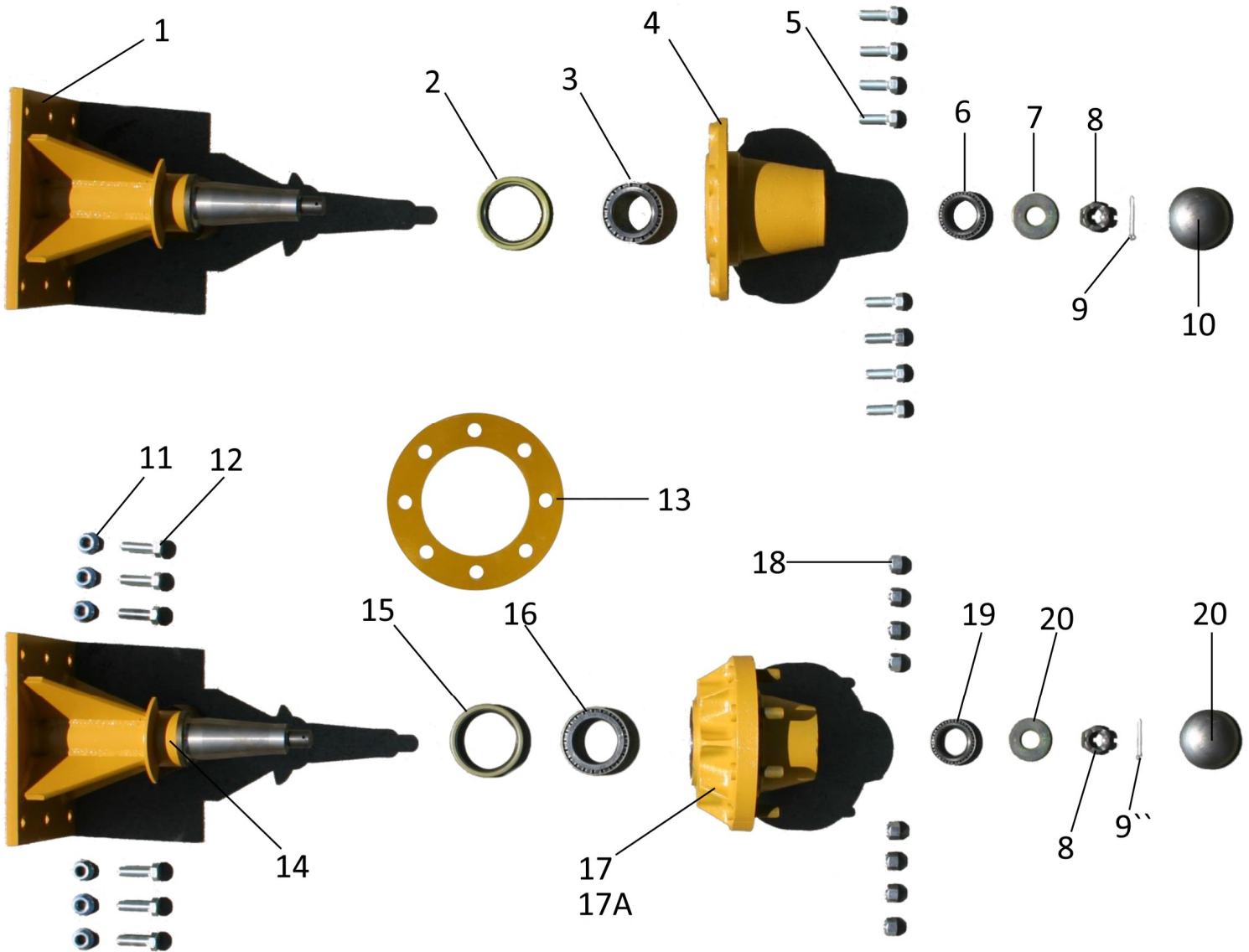
*Note: #7 is for assembly without hydraulic clutch.

TIRE & WHEEL ASSEMBLY



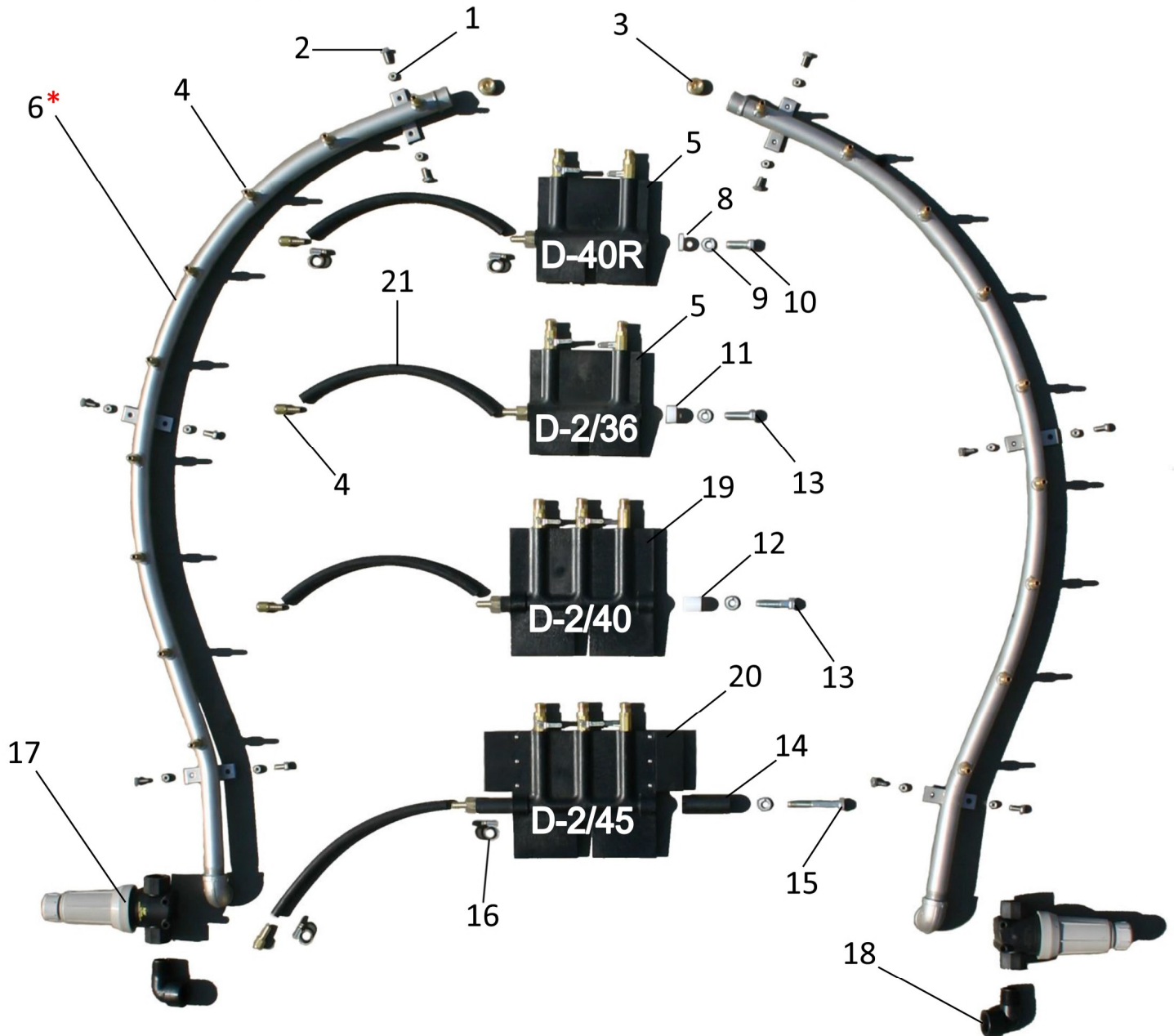
Item#	Part#	Description	Qty
1	7736	21.5L-16.1 14 Ply ribbed	1
1	7736A	21.5L-16.1 10 Ply ribbed	1
2	7738A	16.1 x 18" Wheel	1
3	7737	11.25"x24" ribbed implement	1
4	7739A	12"x24" Wheel	1

HUB & SPINDLE ASSEMBLY



Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	7602	Spindle And Plate Q821	1	13	7737A	Hub Support Flange	1
2	5886	Wheel Seal	1	14	7740	75-8 Spindle	1
3	5887	Inner Wheel Bearing	1	14	7740A	10,000 LBS Spindle	1
4	5889	Hub Assembly	1	15	7741	75-8 Seal	1
5	5890	Lug Bolt	8	15	7741A	10,000 LBS Seal	1
6	5891	Outer Bearing	1	16	7742	Inner Bearing 75-8	1
7	5893	Washer	1	16	7742-1	Inner Bearing 10,000	1
8	5894	Nut	1	17	7743	75-8 Hub Assembly	1
9	5895	Cotter Pin	1	17A	7743A	10,000 Hub Assembly	1
10	5896	Dust Cap	1	18	7746A	Lug nut 5/8" NF	8
11	2334	Nut	6	19	7744	Outer Bearing	1
12	2337	Bolt	6	20	7745	Dust Cap	1

PRESSURE MANIFOLD ASSEMBLY

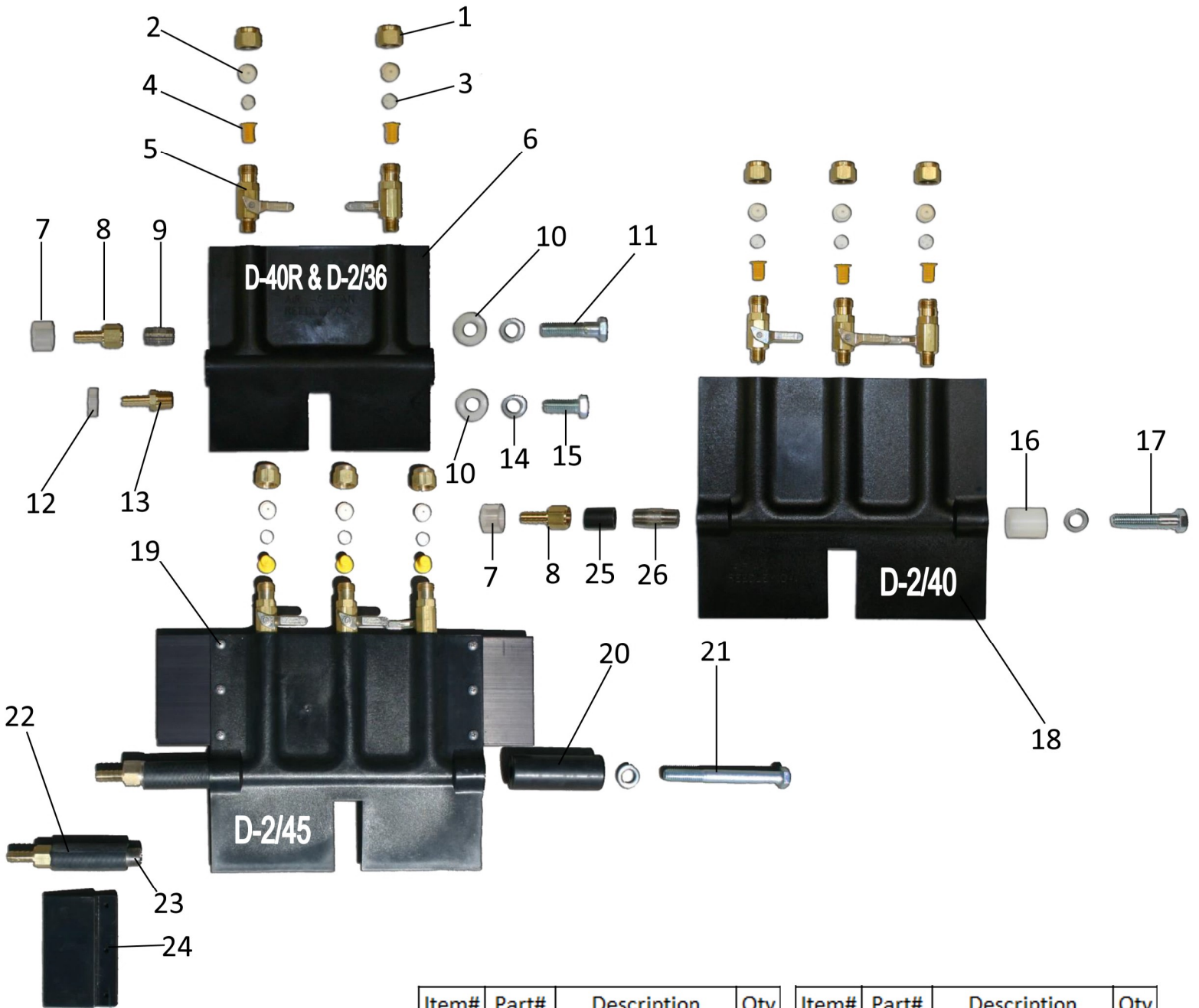


Item#	Part#	Description	Qty
1	2253	5/16" Nylon Lock Nut	1
2	2226	5/16" x 3/4" Bolt	1
3	7752	Flush Plug	1
4	7756	Hose Barb	1
5	5754	Vane	1
6	7750	LH Manifold	1
7	7751	RH Manifold	1
8	7535A	Vane Spacer 40R	1
9	2291	1/2" Lock Washer	1
10	2297	1/2" X 1 1/4" Bolt	1

Item#	Part#	Description	Qty
11	7535B	Vane spacer D2/36	1
12	7535	Vane Spacer D2/40	1
13	2301	1/2" x 2 1/4" Bolt	1
14	7535C	Vane Spacer D245	1
15	2308	1/2" x 4" Bolt	1
16	2452	Hose Clamp	1
17	6350	Line Strainer	1
18	6361	SL 100-90	1
19	7536A	Vane	1
20	7536B	Vane	1
21	7755	Hose	1

*Note: #6 Specify model when ordering.

AIR VANE ASSEMBLIES



Item#	Part#	Description	Qty
1	7771	Nozzle cap	1
2	7762	#1	1
2	7763	#2	1
2	7764	#3	1
2	7765	#4	1
2	7766	#5	1
2	7767	#6	1
2	7768	#7	1
2	7769	#8	1
2	7770	#10	1
3	7757	#23	1
3	7758	#25	1

Item#	Part#	Description	Qty
3	7759	#45	1
3	7760	#46	1
3	7761	#56	1
4	1703	Screen	1
5	5768	Valve	1
6	5754	Valve	1
7	7538	3/4" Clear Hose	1
8	7756	Hose Barb	1
9	2800	3/8" Close Nipple	1
10	2290	1/2" Flat washer	1
11	2301	1/2" Bolt	1
12	5763	5/8" Hose	1
13	5762	Hose Barb	1

Item#	Part#	Description	Qty
14	2291	1/2" Lock Washer	1
15	2297	1/2" Bolt	1
16	7535	Vane Spacer	1
17	2301	1/2" Bolt	1
18	7536A	Vane	1
19	7536B	Vane	1
20	7535C	Spacer	1
21	2308	Bolt	1
22	7754	3/4" Hose	1
23	2806	Nipple	1
24	7536C	Wing	1
25	7754	Spacer Hose	1
26	7753	Nipple	1

Nozzle Chart / TXR-VK Conejet



TXR Conejet® Hollow Cone Spray Tips

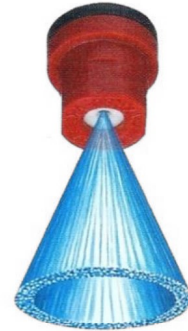
Typical Applications:

Use for directed applications in air blast spraying for orchards and vineyards and other specialty crops. Also well-suited for applications of insecticides, fungicides, defoliant and foliar fertilizers at pressures of 40 PSI (3 bar) and above.

Features:

- Produces uniform, 80° hollow cone spray pattern ideal for airblast, directed and specialty applications.
- Flow rates are matched to serve as a direct replacement for commonly used non-TeeJet hollow cone spray tips.
- High-quality ceramic orifice provides superior wear life, including high-pressure operation.
- Low profile acetal tip body provides minimal impact with foliage and excellent chemical resistance.
- Color-coded holder based on tip flow rate allows for easy capacity identification.

- Snap-fit backup plate provides positive retention when handled in field, but allows for tool-free removal for easy cleaning.
- Best suited for use with TeeJet 98450 series brass rollover fittings.
- Compatible with TeeJet cap CP20230 for use on rollovers and threaded nozzle bodies, tighten to a maximum torque of: 100 in-lbs (11 N-m).
- Suggested spray pressure range of 30–360 PSI (2–25 bar).
- Uses 114396-1-NYR Quick TeeJet® cap, gasket and O-ring. Reference page 64 for more information.

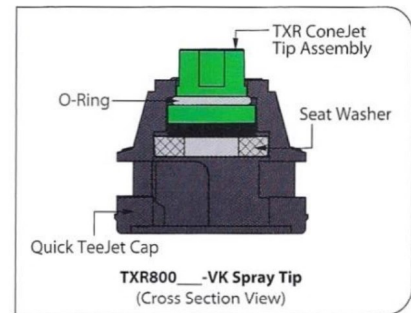


How to order:

Specify tip number.

Examples:

- TXR8003VK – Ceramic with color-coding
- TXR8003VK-100X – Ceramic with color-coding, 100 Tip Pack



Tip Number	Flow Rate (GPM)	GPM																				
		30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	120 PSI	140 PSI	160 PSI	180 PSI	200 PSI	220 PSI	240 PSI	260 PSI	280 PSI	300 PSI	320 PSI	340 PSI	360 PSI
TXR800053VK	100	0.046	0.053	0.059	0.064	0.069	0.073	0.077	0.081	0.089	0.095	0.101	0.107	0.113	0.118	0.123	0.127	0.132	0.136	0.140	0.144	0.148
TXR800071VK	50	0.062	0.071	0.079	0.086	0.093	0.099	0.105	0.110	0.120	0.129	0.138	0.146	0.153	0.160	0.167	0.174	0.180	0.186	0.192	0.197	0.203
TXR8001VK	50	0.087	0.100	0.111	0.121	0.131	0.139	0.147	0.155	0.169	0.182	0.194	0.205	0.216	0.226	0.235	0.245	0.253	0.262	0.270	0.278	0.286
TXR80013VK	50	0.116	0.133	0.148	0.162	0.174	0.186	0.196	0.207	0.225	0.243	0.259	0.274	0.288	0.301	0.314	0.326	0.338	0.349	0.360	0.371	0.381
TXR80015VK	50	0.131	0.150	0.167	0.182	0.196	0.209	0.221	0.232	0.254	0.273	0.291	0.308	0.324	0.339	0.353	0.367	0.380	0.393	0.405	0.417	0.429
TXR80017VK	50	0.145	0.167	0.185	0.202	0.218	0.232	0.246	0.258	0.282	0.303	0.323	0.342	0.360	0.376	0.392	0.408	0.422	0.437	0.450	0.464	0.476
TXR8002VK	50	0.174	0.200	0.223	0.243	0.261	0.279	0.295	0.310	0.338	0.364	0.388	0.410	0.432	0.452	0.471	0.489	0.507	0.524	0.540	0.556	0.572
TXR80028VK	50	0.240	0.275	0.306	0.334	0.359	0.383	0.405	0.426	0.465	0.500	0.533	0.564	0.594	0.621	0.648	0.673	0.697	0.720	0.743	0.765	0.786
TXR8003VK	50	0.260	0.300	0.335	0.367	0.396	0.423	0.449	0.473	0.517	0.558	0.597	0.633	0.667	0.699	0.730	0.759	0.788	0.815	0.841	0.867	0.892
TXR80036VK	50	0.309	0.356	0.398	0.435	0.470	0.502	0.532	0.561	0.614	0.663	0.708	0.751	0.791	0.829	0.866	0.901	0.935	0.967	0.999	1.03	1.06
TXR8004VK	50	0.347	0.400	0.447	0.489	0.528	0.564	0.598	0.630	0.690	0.745	0.796	0.843	0.889	0.932	0.973	1.01	1.05	1.09	1.12	1.16	1.19
TXR80049VK	50	0.423	0.488	0.545	0.597	0.644	0.688	0.730	0.769	0.842	0.909	0.971	1.03	1.09	1.14	1.19	1.24	1.28	1.33	1.37	1.41	1.45

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 136–157 for drop size classification, useful formulas and other information.

Nozzle Chart / Disc & Core Ceramic

TeeJet® Disc-Core Type Hollow Cone Spray Tips



Typical Assembly with Ceramic Disc and Core



*Use CP20229-NY gasket when 4514-NY Nylon slotted strainer is not used.

Hollow Cone Type Spray Tips

			GPM														
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI	20 PSI	40 PSI	80 PSI		
D1	DC13	.031"	—	—	.059	.066	.078	.088	.097	.115	.128	.152	—	51°	62°		
D1.5	DC13	.036"	—	.057	.067	.075	.088	.098	.110	.127	.142	.167	38°	55°	66°		
D2	DC13	.041"	—	.064	.075	.08	.10	.11	.12	.14	.16	.18	49°	67°	72°		
D3	DC13	.047"	—	.071	.08	.09	.11	.12	.13	.16	.18	.20	53°	70°	75°		
D4	DC13	.063"	.070	.09	.11	.12	.14	.16	.17	.20	.23	.27	69°	79°	83°		
D1	DC23	.031"	—	—	.064	.072	.080	.096	.107	.124	.139	.164	—	47°	58°		
D1.5	DC23	.036"	—	.064	.076	.086	.103	.117	.130	.155	.175	.210	34°	51°	62°		
D2	DC23	.041"	—	.078	.092	.10	.13	.14	.16	.19	.21	.25	51°	63°	70°		
D3	DC23	.047"	.065	.087	.10	.12	.14	.16	.18	.21	.24	.28	58°	69°	75°		
D4	DC23	.063"	.082	.113	.14	.15	.19	.21	.23	.28	.32	.38	68°	82°	87°		
D5	DC23	.078"	.095	.13	.16	.18	.22	.25	.28	.34	.38	.46	79°	89°	94°		
D6	DC23	.094"	.112	.15	.19	.21	.26	.29	.32	.39	.45	.54	84°	93°	98°		
D1	DC25	.031"	—	—	.088	.101	.122	.138	.156	.185	.210	.255	—	27°	43°		
D1.5	DC25	.036"	—	—	.118	.135	.162	.185	.205	.245	.280	.33	—	38°	49°		
D2	DC25	.041"	—	.12	.14	.16	.19	.22	.25	.29	.34	.41	39°	51°	58°		
D3	DC25	.047"	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48	52°	61°	67°		
D4	DC25	.063"	.15	.21	.25	.29	.35	.40	.45	.54	.62	.75	67°	74°	80°		
D5	DC25	.078"	.18	.25	.30	.35	.42	.48	.54	.65	.75	.90	73°	79°	84°		
D6	DC25	.094"	.23	.32	.39	.44	.54	.62	.70	.85	.97	1.19	79°	85°	89°		
D7	DC25	.109"	.26	.37	.45	.52	.63	.73	.81	.98	1.18	1.37	85°	91°	93°		
D8	DC25	.125"	.31	.43	.53	.61	.75	.89	.97	1.19	1.36	1.68	91°	96°	97°		
D10	DC25	.156"	.38	.54	.65	.76	.93	1.07	1.21	1.48	1.71	2.1	97°	102°	103°		
D12	DC25	.188"	.46	.61	.80	.93	1.15	1.32	1.47	1.81	2.09	2.55	103°	109°	112°		
D14	DC25	.219"	.51	.72	.88	1.03	1.26	1.47	1.65	2.02	2.34	2.89	108°	113°	114°		
D1	DC45	.031"	—	—	—	.125	.148	.170	.190	.225	.257	.310	—	22°	34°		
D1.5	DC45	.036"	—	—	.14	.16	.20	.23	.25	.31	.35	.43	—	33°	44°		
D2	DC45	.041"	—	.14	.18	.20	.25	.28	.32	.38	.44	.53	32°	46°	55°		
D3	DC45	.047"	—	.17	.20	.23	.28	.33	.36	.44	.51	.62	40°	53°	60°		
D4	DC45	.063"	.18	.25	.31	.36	.43	.50	.56	.68	.78	.95	62°	69°	72°		
D5	DC45	.078"	.23	.32	.39	.45	.55	.64	.71	.86	.99	1.22	67°	73°	76°		
D6	DC45	.094"	.29	.41	.50	.58	.72	.83	.93	1.15	1.33	1.64	73°	79°	81°		
D7	DC45	.109"	.33	.48	.59	.68	.84	.97	1.11	1.35	1.57	1.94	81°	86°	87°		
D8	DC45	.125"	.41	.59	.72	.84	1.04	1.21	1.35	1.68	1.94	2.40	86°	90°	90°		
D10	DC45	.156"	.54	.77	.94	1.10	1.35	1.57	1.77	2.18	2.50	3.10	90°	93°	93°		
D12	DC45	.188"	.67	.95	1.17	1.36	1.68	1.95	2.20	2.69	3.11	3.80	97°	100°	102°		
D14	DC45	.218"	.75	1.07	1.32	1.53	1.89	2.19	2.45	3.00	3.49	4.30	101°	104°	105°		
D16	DC45	.250"	.86	1.25	1.54	1.79	2.20	2.57	2.89	3.54	4.11	5.20	108°	111°	112°		
D1	DC46	.031"	—	—	—	.145	.178	.205	.23	.28	.32	.39	—	13°	15°		
D1.5	DC46	.036"	—	—	—	.213	.260	.300	.33	.41	.46	.56	—	15°	17°		
D2	DC46	.041"	—	—	.24	.27	.33	.37	.42	.50	.57	.68	—	18°	21°		
D3	DC46	.047"	—	.23	.28	.32	.39	.45	.51	.61	.70	.86	14°	20°	24°		
D4	DC46	.063"	.28	.39	.48	.56	.68	.78	.88	1.07	1.23	1.52	23°	29°	33°		
D5	DC46	.078"	.38	.54	.66	.77	.94	1.10	1.25	1.50	1.73	2.13	33°	39°	42°		
D6	DC46	.094"	.55	.78	.95	1.10	1.35	1.58	1.73	2.16	2.50	3.06	42°	48°	50°		
D7	DC46	.109"	—	.98	1.22	1.39	1.72	1.97	2.22	2.73	3.15	3.85	48°	53°	56°		
D8	DC46	.125"	—	—	1.59	1.84	2.25	2.62	2.93	3.60	4.17	5.05	—	60°	62°		
D10	DC46	.156"	—	—	2.15	2.48	3.05	3.53	3.96	4.83	5.59	6.80	—	66°	68°		

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 136–157 for useful formulas and other information.

Hollow Cone Spray Pattern
Produced by Cores #13, 23, 25, 45 & 46



CP26277-1-NY Quick TeeJet® Cap
For ceramic disc and core.
See page 64 for ordering information.

How to order:
To order orifice disc only, specify disc number and material.
Note: For proper assembly and performance, disc and core must both be of like materials.

- Examples:
- DCER-2 – Ceramic
 - D2 – Hardened Stainless Steel
 - DE-2 – Stainless Steel
 - DVP-2 – Polymer
- To order core only, specify core number and material.
- Examples:
- DC13-CER – Ceramic
 - DC13-HSS – Hardened Stainless Steel
 - DC13 – Brass
 - DC13-NY – Nylon

STRAINER NOTE: For nozzles using orifice disc numbers 1, 1.5 and 2, or core numbers 31 and 33, slotted strainer number 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer number 4514-32 equivalent to 16 mesh screen size is required.

Nozzle Chart / VK Conejet



ConeJet® VisiFlo® Hollow Cone Spray Tips

Typical Applications:

Use for directed applications in air blast spraying for orchards and vineyards and other specialty crops. Also well-suited for applications of insecticides, fungicides, defoliant and foliar fertilizers at pressures of 40 PSI (3 bar) and above.

Features:

- VisiFlo color-coded version consists of stainless steel or ceramic orifice in polypropylene body. Maximum operating pressure 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar).
- Finely atomized spray pattern provides thorough coverage.
- TX-VS1 and TX-VS2 available in VisiFlo color-coded stainless steel only.

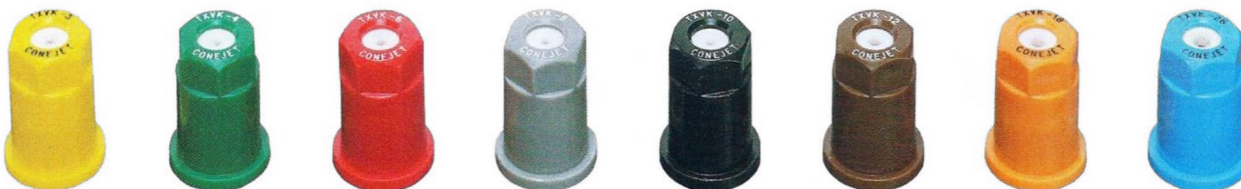


How to order:

Specify tip number.

Examples:

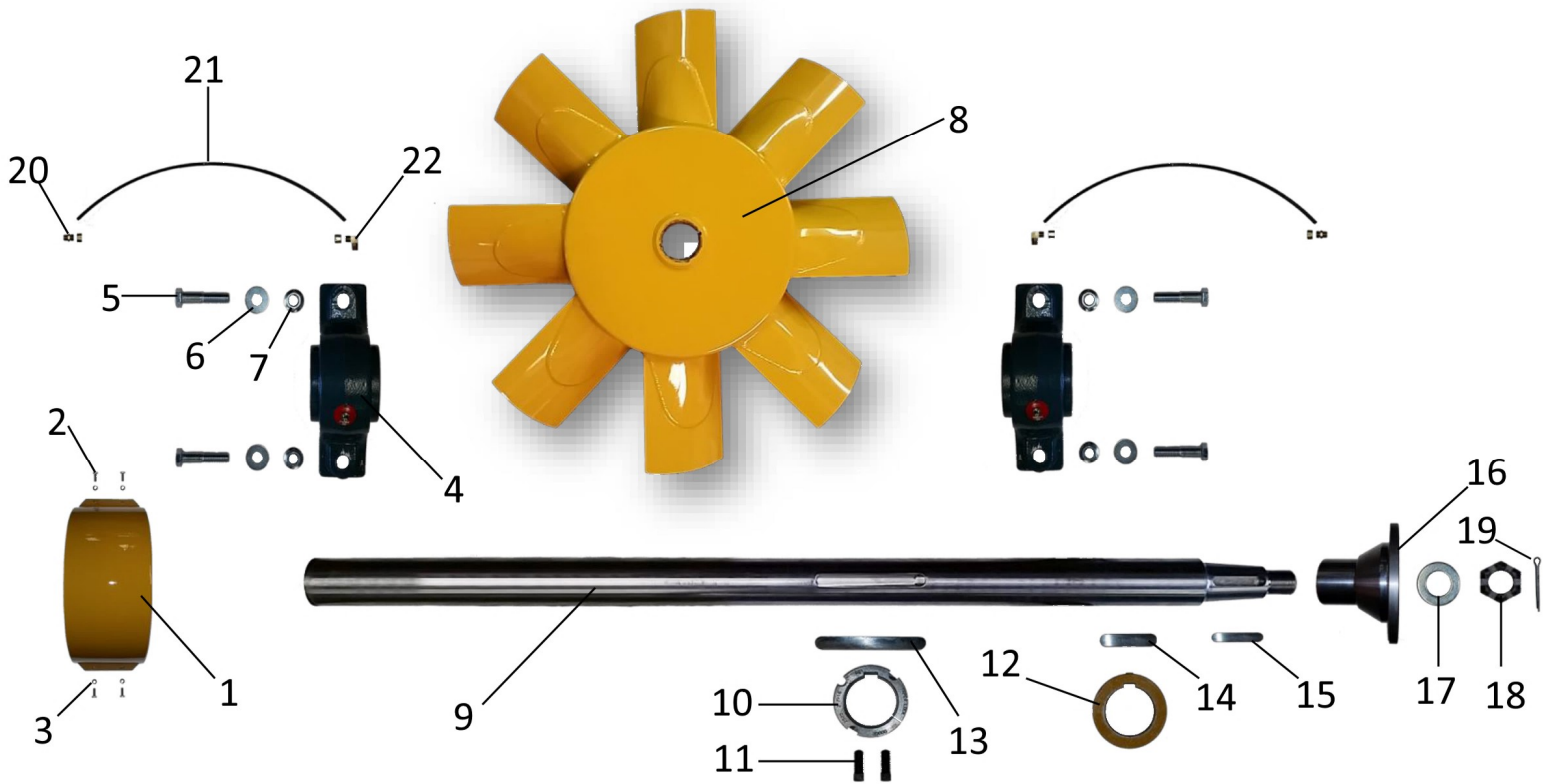
- TX-VS4 – Stainless Steel with VisiFlo color-coding
- TX-4 – Brass
- TX-SS4 – Stainless Steel
- TX-VK4 – Ceramic with VisiFlo color-coding



Tip	Orifice	GPM																	
		30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	120 PSI	140 PSI	160 PSI	180 PSI	200 PSI	220 PSI	240 PSI	260 PSI	280 PSI	300 PSI
TX-VS1	100	0.015	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.026	0.028	0.030	0.031	0.032	0.034	0.035	0.036	0.037	0.038
		VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VS2	100	0.029	0.033	0.037	0.040	0.043	0.045	0.047	0.050	0.054	0.058	0.061	0.064	0.067	0.070	0.073	0.075	0.078	0.080
		VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK3	100	0.044	0.050	0.055	0.060	0.064	0.068	0.071	0.075	0.081	0.086	0.092	0.096	0.101	0.105	0.109	0.113	0.117	0.120
		F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK4	50	0.058	0.067	0.074	0.080	0.086	0.091	0.096	0.101	0.110	0.118	0.125	0.132	0.139	0.145	0.151	0.157	0.162	0.167
		F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK6	50	0.088	0.100	0.111	0.120	0.129	0.137	0.145	0.152	0.165	0.177	0.188	0.199	0.208	0.218	0.226	0.235	0.243	0.251
		F	F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK8	50	0.116	0.133	0.148	0.162	0.174	0.186	0.196	0.207	0.225	0.243	0.259	0.274	0.288	0.301	0.314	0.326	0.338	0.349
		F	F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK10	50	0.145	0.167	0.185	0.202	0.218	0.232	0.246	0.258	0.282	0.303	0.323	0.342	0.360	0.376	0.392	0.408	0.422	0.437
		F	F	F	F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK12	50	0.174	0.200	0.223	0.243	0.261	0.279	0.295	0.310	0.338	0.364	0.388	0.410	0.432	0.452	0.471	0.489	0.507	0.524
		F	F	F	F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK18	50	0.260	0.300	0.335	0.367	0.396	0.423	0.449	0.473	0.517	0.558	0.597	0.633	0.667	0.699	0.730	0.759	0.788	0.815
		F	F	F	F	F	F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF
TX-VK26	50	0.376	0.433	0.484	0.530	0.572	0.611	0.648	0.683	0.747	0.807	0.862	0.914	0.963	1.01	1.05	1.10	1.14	1.18
		F	F	F	F	F	F	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF

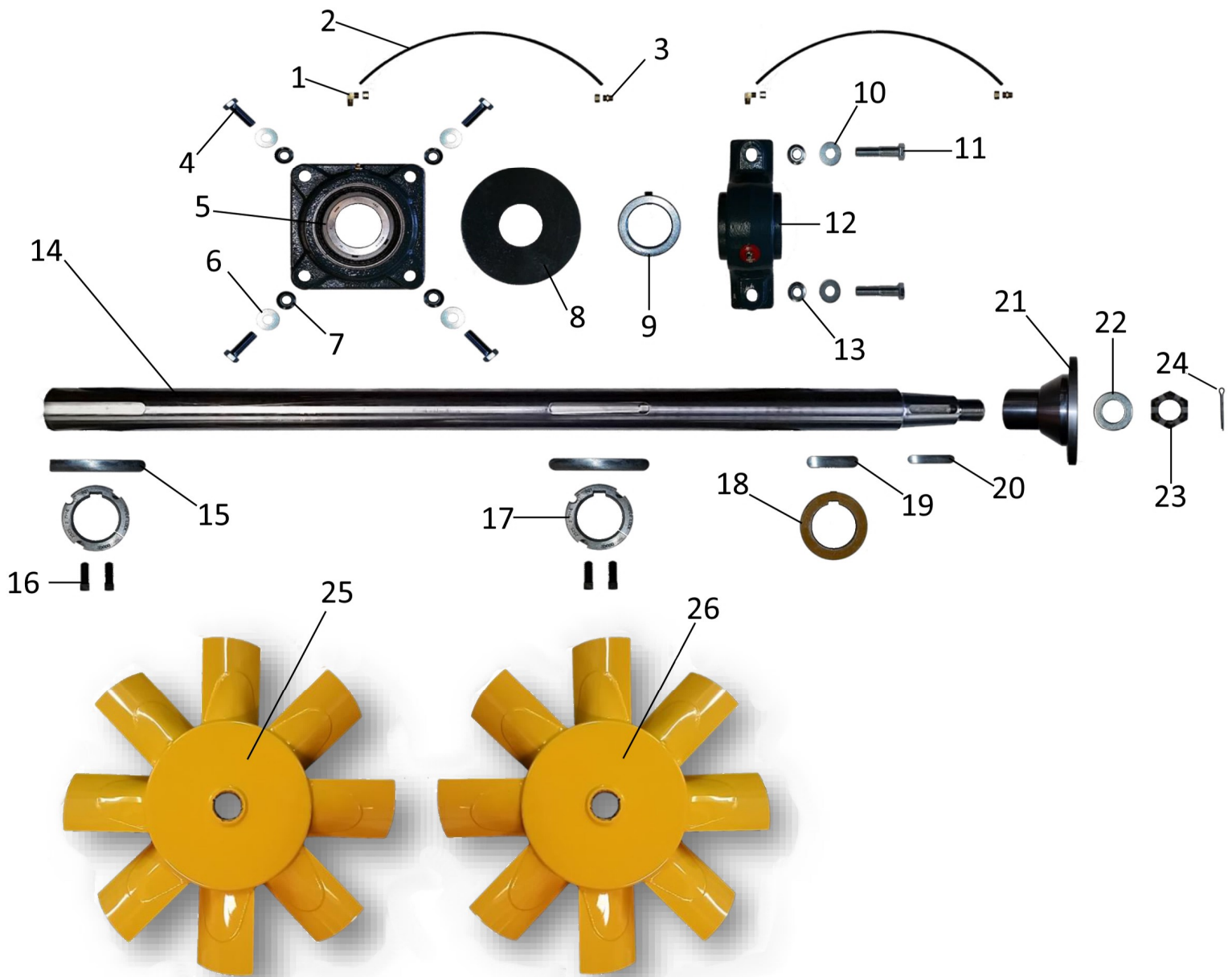
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 136–157 for useful formulas and other information.

FAN SHAFT ASSEMBLY (D-40R)



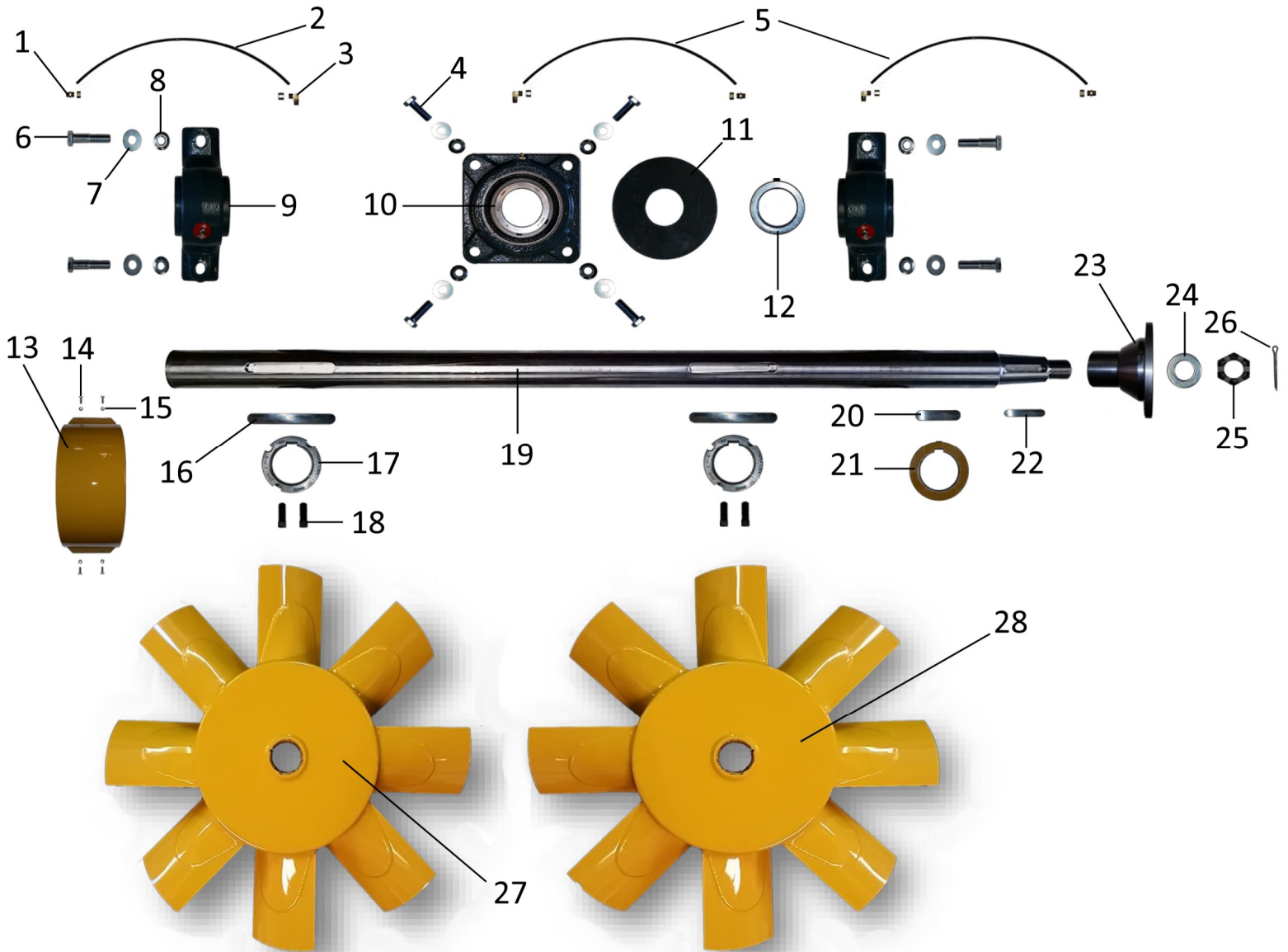
Item#	Part#	Description	Qty
1	7781	Bearing Guard	1
2	2900	1/4" NC 3/4" Stainless Steel	1
3	2907	1/4" Lock Washer Stainless Steel	1
4	1424A	Bearing 2 7/16" Type E Pillow Block	2
5	2341	5/8" x 3 NC GR5 Plated Cap Screw	1
6	2310	9/16" Plated Flat Washer	1
7	2334	5/8" NC Plated Flange Nut	1
8	7505	Fan D-40R	1
9	7413C	Fan Shaft D-40R	1
10	7504	Bushing (2525 x 2 2/16")	1
11	5810	Bushing Set	1
12	7357	Agitator Drive Sheave (1 TA 38 x 2 7/16")	1
13	7774	Fan Shaft Key Stock	1
14	7773	Fan Shaft Key Stock	1
15	7772	Fan Shaft Key Stock	1
16	7362	Driveline Flange Tapered Hub	1
17	7914	1 1/4" Washer	1
18	7363	Slotted Nut	1
19	7364	Cotter Pin	1
20	7799	Grease Fitting ST (68CA-4-2)	1
21	7788	Grease Line, Poly Tube	1
22	7800	Grease Fitting 90 Deg (269CA -4-2)	1

FAN SHAFT ASSEMBLY (D-2/36)



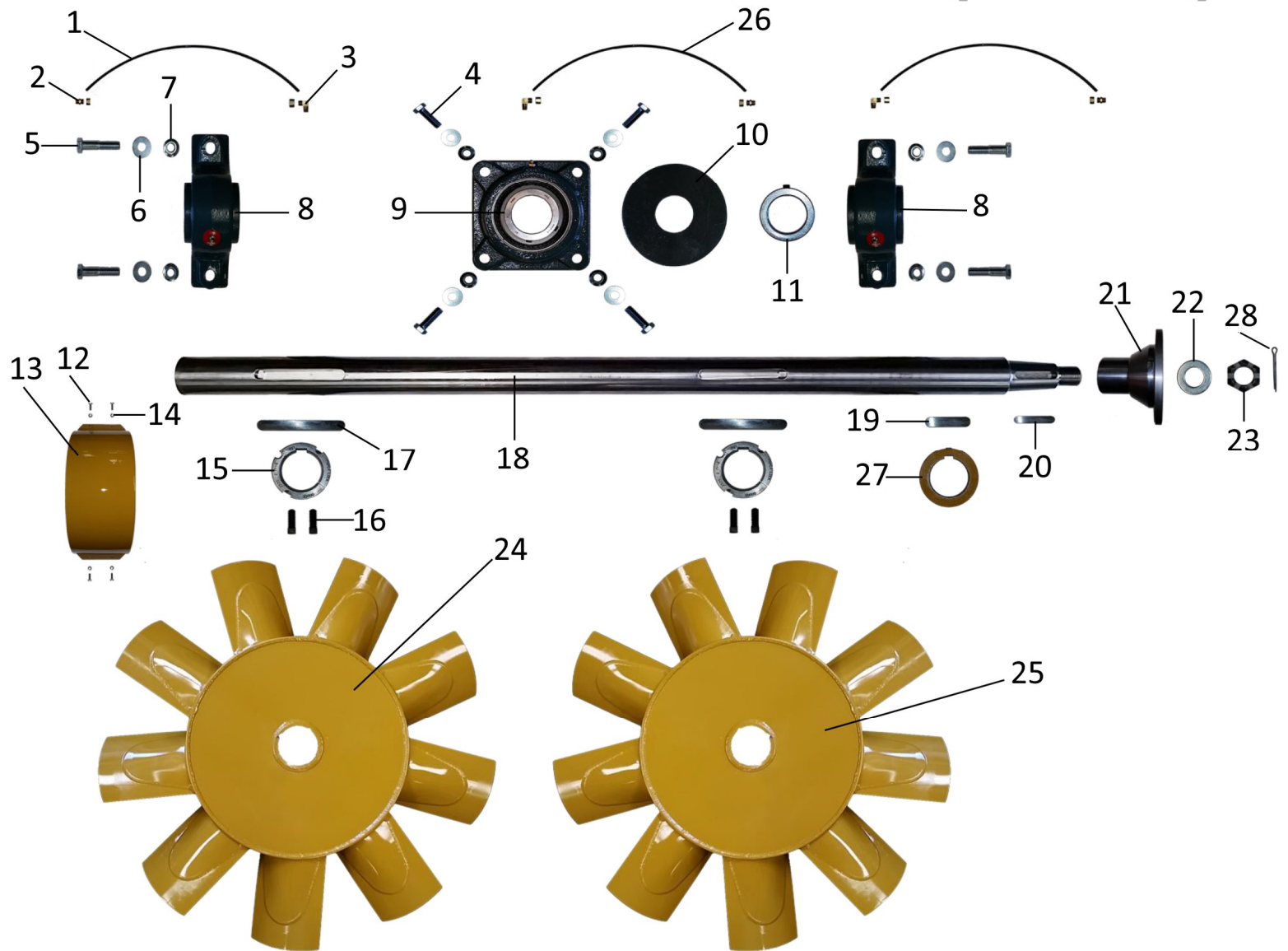
Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	7800	90° Fitting	1	14	7413D	Fan Shaft	1
2	7788	Grease Line Poly Tube (2) Required	1	15	7775	Key	1
3	7799	ST. Fitting	1	16	5810	Set Bolt	1
4	2338	5/8" x 2" NC Bolt	1	17	1416	Fan Bushing	2
5	7415	2 7/16" Flange Bearing	1	18	7357	Pulley	1
6	2310	9/16" Flat Washer	1	19	7773	Key	1
7	2334	5/8" Flange Nut	1	20	7772	Key	1
8	7777	Slinger	1	21	7362	Companion Flange	1
9	7776	Set Collar	1	22	7914	1 1/4" Washer	1
10	2310	9/16" Flat Washer	1	23	7363	Slotted Nut	1
11	2341	5/8" x 3" Bolt	1	24	7364	Cotter Pin	1
12	1424A	2 7/16" Pillow Block Bearing	1	25	7509	Outer Fan	1
13	2334	5/8" Flange Nut	1	26	7508	Inner Fan	1

FAN SHAFT ASSEMBLY (D-2/40)



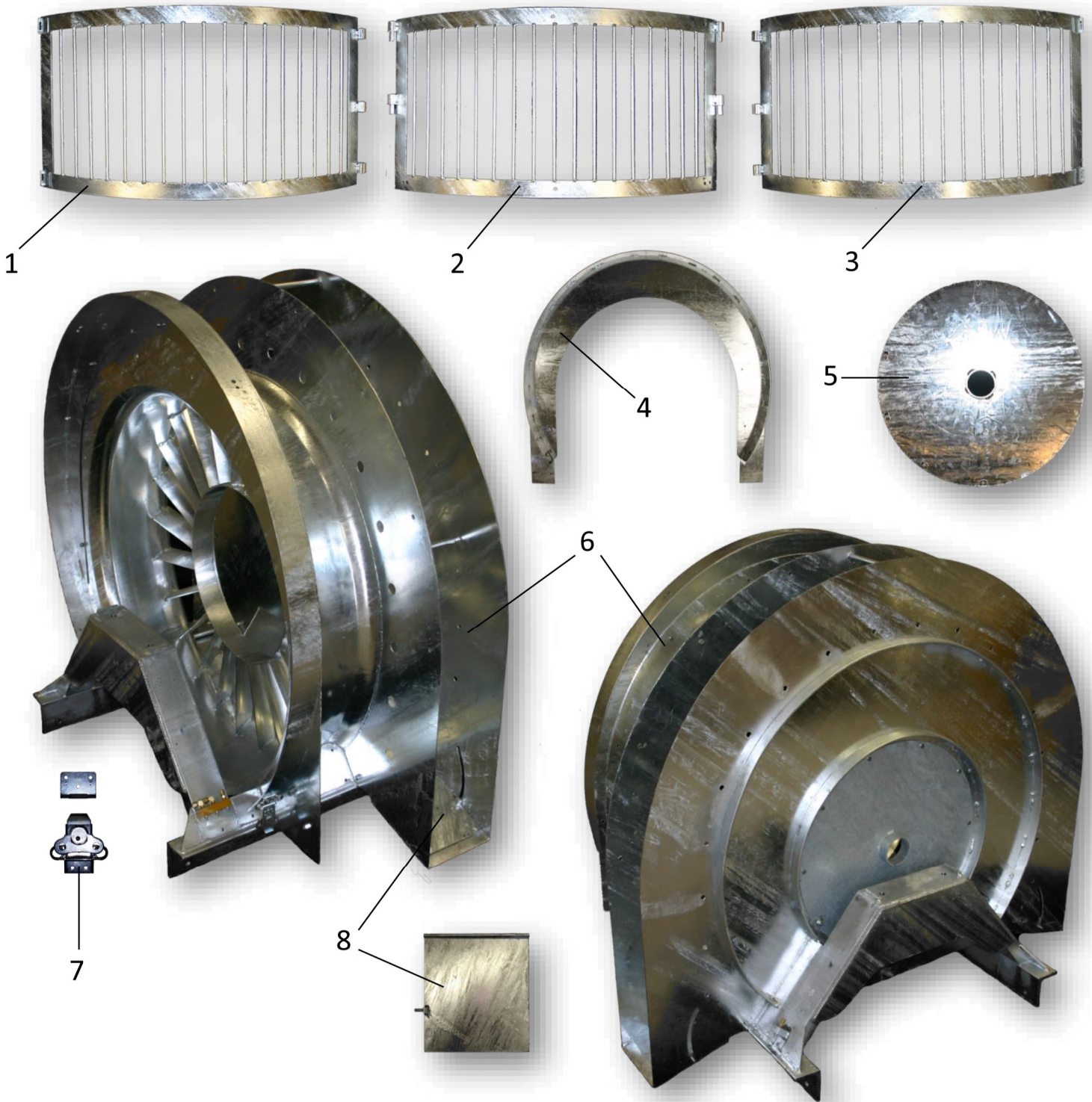
Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	7799	ST. Fitting	1	15	2902	Washer	1
2	7788	Grease Line Poly Tube	1	16	7775	Key (2) Required	1
3	7800	90° Fitting	1	17	7504	Fan Bushing	1
4	2338	5/8" x 2" NC Bolt	1	18	5810	Set Bolt	1
5	7780	Grease Line Poly Tube (2) Required	1	19	7413	Fan Shaft	1
6	2341	5/8" x 3" NC Bolt	1	20	7773	Key	1
7	2310	9/16" Flat Washer	1	21	7357	Pulley	1
8	2334	5/8" Flange Nut	1	22	7772	Key	1
9	1424A	2 7/16" Pillow Block Bearing (2) Required	1	23	7362	Companion flange	1
10	7411	2 7/16" Flange Bearing	1	24	7914	1 1/4" Washer	1
11	7777	Slinger	1	25	7363	Slotted Nut	1
12	7776	Set Collar	1	26	7364	Cotter Pin	1
13	7781	Bearing Cover	1	27	7500	Outer Fan	1
14	2900	Bolt	1	28	7502	Inner Fan	1

FAN SHAFT ASSEMBLY (D-2/45)



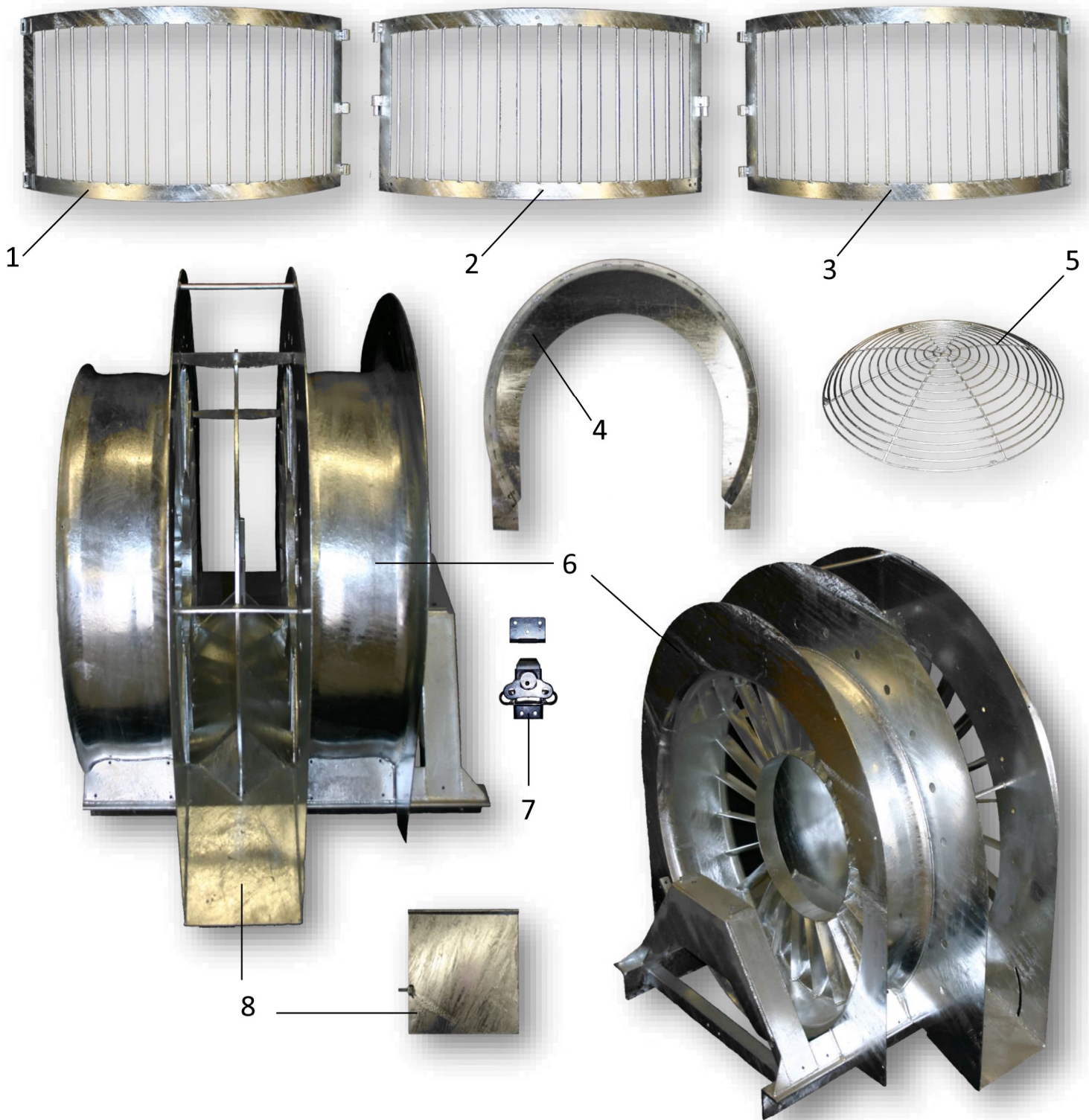
Item#	Part#	Description	Qty	Item#	Part#	Description	Qty
1	7788	Grease Line Poly Tube	1	15	7796	Fan Bushing	1
2	7799	ST. Fitting	1	16	5810	Set Bolts	1
3	7800	90° Fitting	1	17	7774	Key	1
4	2338	Bolt	1	18	7784A	Fan Shaft	1
5	2341	Bolt	1	19	7773	Key	1
6	2310	Flat Washer	1	20	7772	Key	1
7	2334	Lock Washer	1	21	7419B	Companion flange	1
8	7784B	2 11/16" Pillow Block Bearing (2) Required	1	22	7428	Washer	1
9	7784	2 11/16" Flange Bearing	1	23	7429	Slotted Nut	1
10	7798	Slinger	1	24	7795	Outer Fan	1
11	7797	Set Collar	1	25	7794	Inner Fan	1
12	2900	Bolt	1	26	7788	Grease Line Poly Tube	1
13	7781A	Bearing Cover	1	27	7357A	Fan Bushing	1
14	2907	Washer	1	28	7364	Cotter Pin	1

FAN HOUSING ASSEMBLY (D-40R)



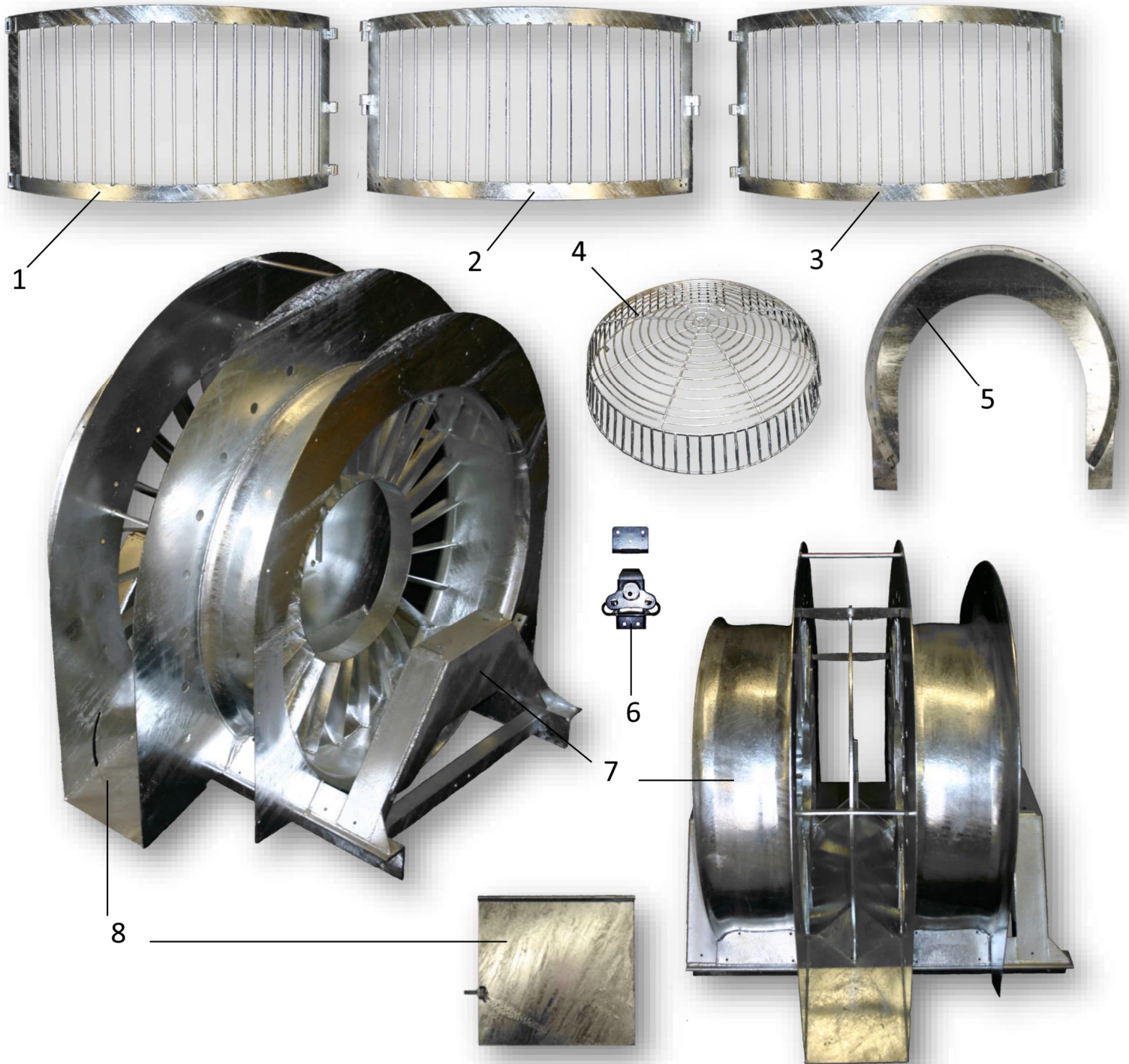
Item#	Part#	Description	Qty
1	7450	LH Guard	1
2	7447	Top Guard	1
3	7453	RH Guard	1
4	7782	Transition Plate	1
5	7455	Fan Housing Cover	1
6	7456	Fan Housing	1
7	K5-2811-07	Latch	1
8	7457	Deflector Vane	1

FAN HOUSING ASSEMBLY (D-2/36)



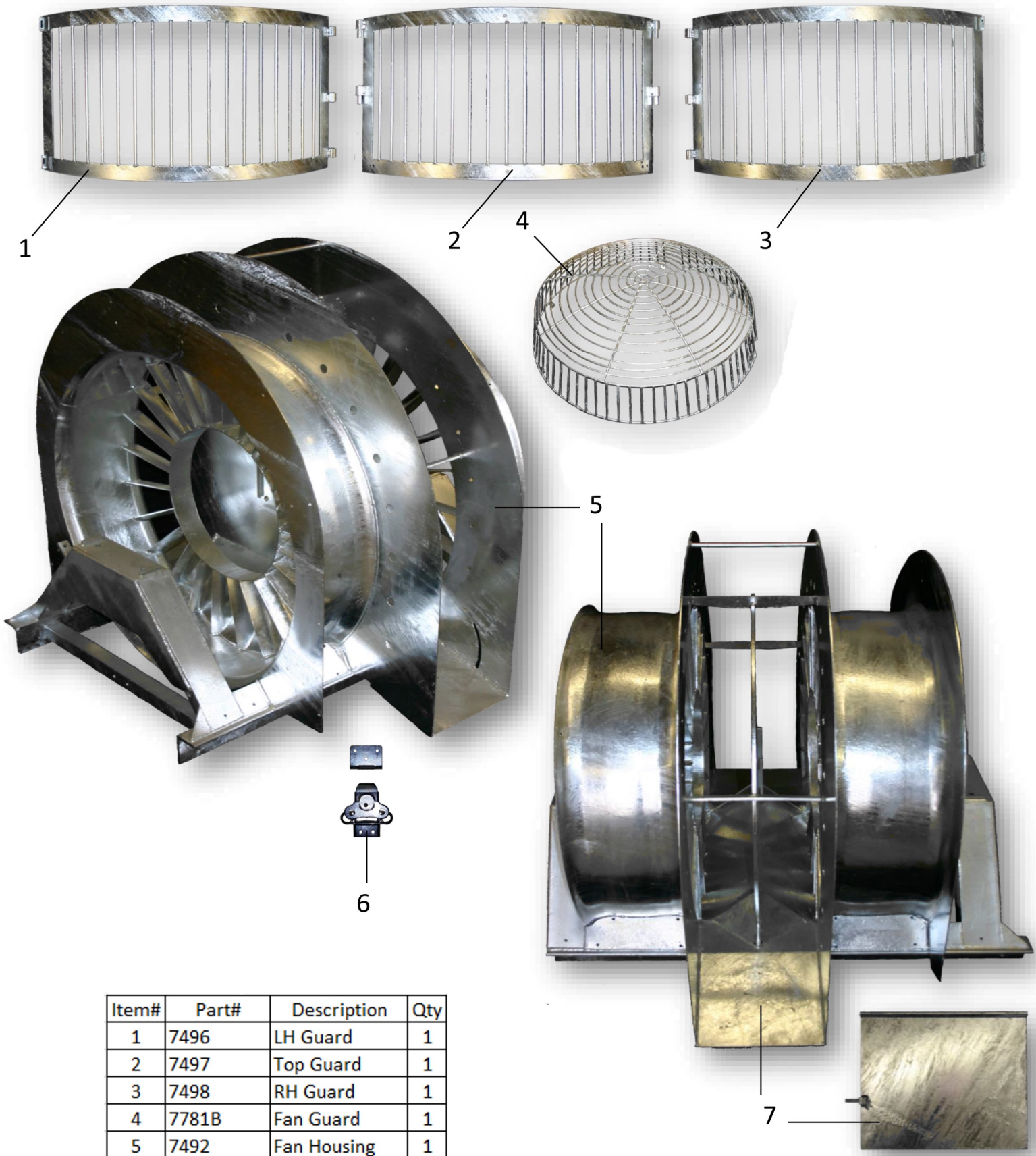
Item#	Part#	Description	Qty
1	7450	LH Guard	1
2	7447	Top Guard	1
3	7453	RH Guard	1
4	7782	Transition Plate	1
5	5832	Fan Guard	1
6	7493	Fan Housing	1
7	K5-2811-07	Latch	1
8	7494	Deflector Vane	1

FAN HOUSING ASSEMBLY (D-2/40)



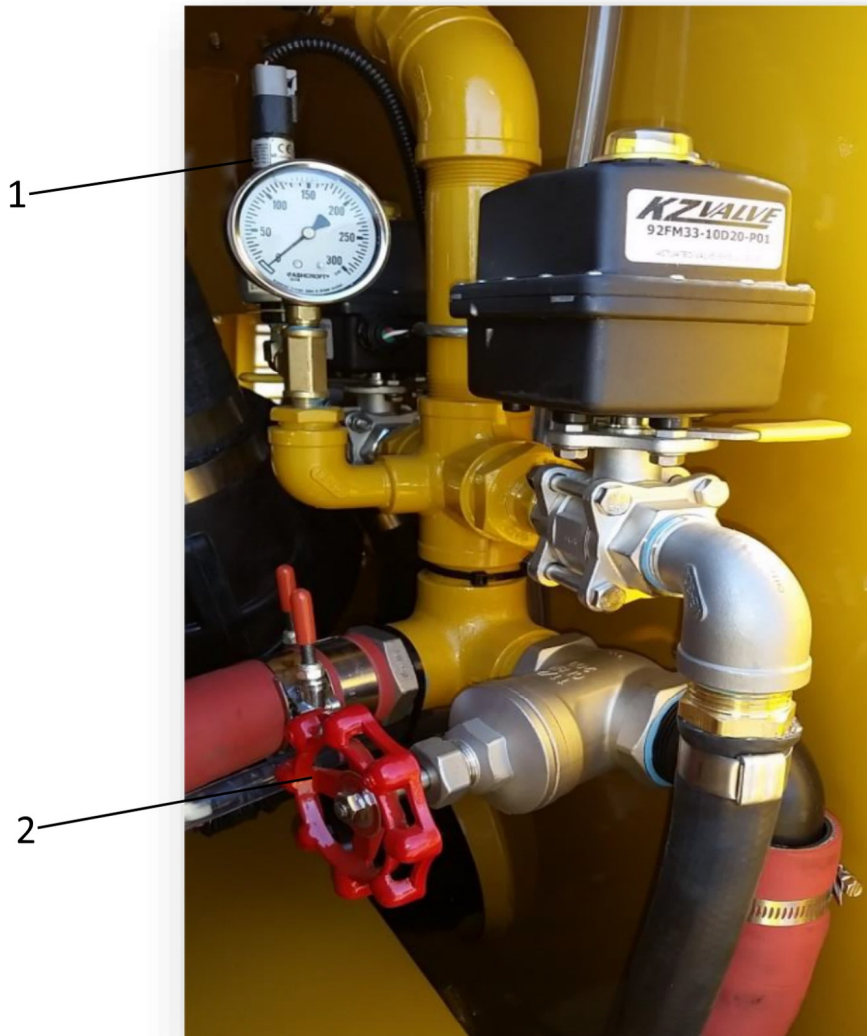
Item#	Part#	Description	Qty
1	7450	LH Guard	1
2	7447	Top Guard	1
3	7453	RH Guard	1
4	7461	Fan Guard	1
5	7782	Transition Plate	1
6	K5-2811-07	Latch	1
7	7491	Fan Housing	1
8	7783	Deflector Vane	1

FAN HOUSING ASSEMBLY (D-2/45)



Item#	Part#	Description	Qty
1	7496	LH Guard	1
2	7497	Top Guard	1
3	7498	RH Guard	1
4	7781B	Fan Guard	1
5	7492	Fan Housing	1
6	K5-2811-07	Latch	1
7	7495	Deflector Vane	1

REGULATOR ASSEMBLY



Item#	Part#	Description	Qty
1	403-300	Gauge	1
2	7688G	Regulator	1

OPTIONS (Swivel Hitches)



OPTIONS (Electric By-Pass Valve)



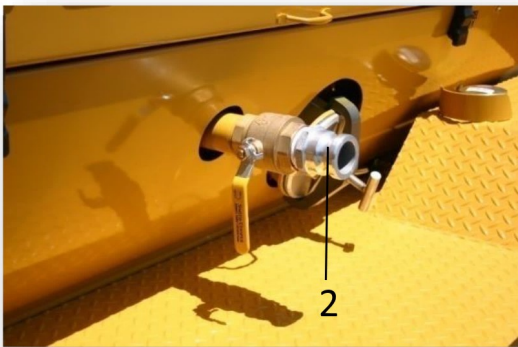
Item#	Part#	Description	Qty
1	S5103	Double Lip Swivel Hitch	1
2	S5104	Single Lip Swivel Hitch	1
3	S5110A	Electric Bypass Valve	1

OPTIONS (Clean-Fix Radiator Fan)

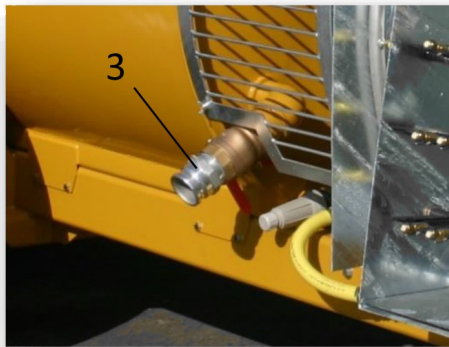


1

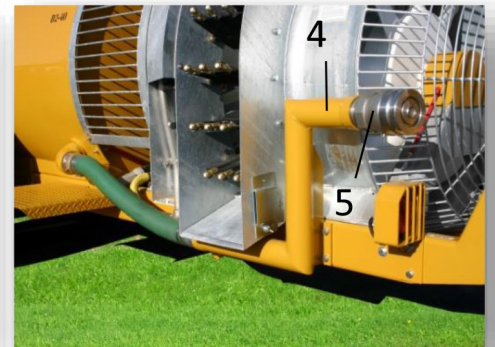
OPTIONS (Quick Fill Connections)



2



3



4

5

Item#	Part#	Description	Qty
1	S5106	Clean Fix Fan	1
2	S5119	Suction Fill	1
3	S5120	Rear Fill	1
4	S5123A	Z Fill	1
5	OPW1672AN	Male Coupling	1

OPTIONS (AgOtter Rate Controller)

AgOtter - Rate Controlling In Field Data Management

AgOtter is a Rate Control and Data Management System for Sprayers. It is for use in any liquid spray application. The patent-pending technology works well under canopies which makes it ideal in orchards, groves and vineyards where trees, vines and other obstacles can cause loss of GPS.

AgOtter allows you to see, monitor and record all the Sprayer's essential information. The user can see and record the spray time, acres/hectares, coverage maps and all spray data. Any Apple device can be used to monitor the system wirelessly.

AgHippo is a desktop program that lets the user view the AgOtter spray jobs after work is completed. AgOtter's logs can be wirelessly sent to any email or they can be transmitted over the Apple device's cell modem so you can view all of the spray detail (at one second intervals) all on AgHippo.

Obstacles (such as a thick canopy of trees) are of no concern. AgOtter's patent-pending technology combines inertial and magnetic sensors with GPS/GNSS so satellite signal can be lost, but logging, mapping and rate control continue uninterrupted.

AgOtter Components

AgOtter Controller – The Controller thinks for the system. This small box holds the computer, the GPS/GNSS receiver, the inertial system, the speed sensor reader and the data logger. The Controller is responsible for achieving the target rate. Set your desired rate in the system and the Controller will continuously adjust a valve to be sure that the target rate is maintained regardless of ground speed, pressure or view of the sky.

Apple Device – This displays the data – the map, the rate, the speed, the acres or hectares, the gallons or liters, etc. This is *not needed* for AgOtter to operate; it only acts as a way to see the data (through the AgOtter App) and change any setting on the Controller (like desired rate or swath width). It can also be used to move the data from the Controller or even to push the data to the cloud if desired. The driver of the Sprayer can immediately detect a spray or plumbing problem, or simply ensure that he is on target with rate or speed. And everything is recorded for post analysis.

Meters (electromagnetic) – This monitors the rate. It tells the Controller how much is flowing through the system and this is wirelessly relayed to the Apple device for real-time monitoring. And no more internal moving parts in the meter. AgOtter comes with electromagnetic meters and gets away from the traditional turbine or paddle wheel design that so often fail or get stuck. With no moving parts in the meter, there is less to go wrong or stop a spray application.

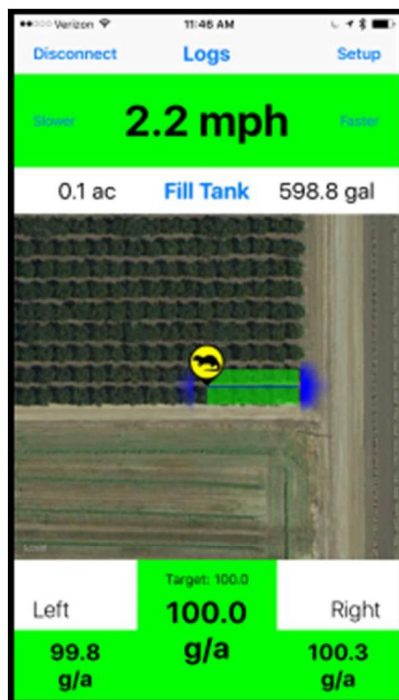
Valve (stainless steel) – this physically controls the rate. The Controller tells the Valve to open or close based on current rate, which is gathered from the meters and affected by vehicle speed and pressure. The Controller offsets the variables by opening and closing the valve so desired rate is constantly achieved.

AgOtter has the versatility to be used with either one or two meters (for independent left and right boom readings) or can be connected to read up to 5 sections.

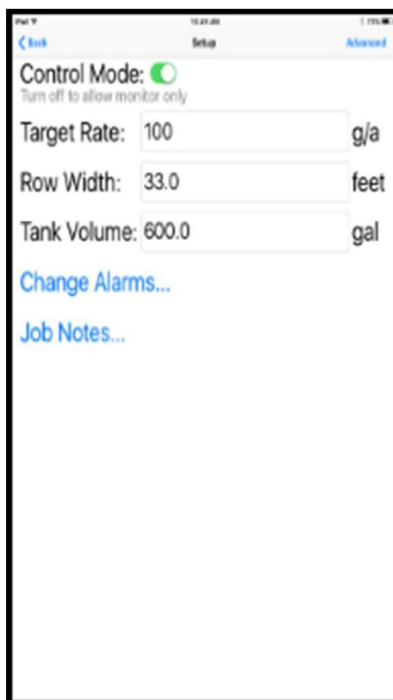
OPTIONS (AgOtter Rate Controller)

AgOtter Apple App – download for free. Screen 1 depicts your main viewing screen that shows live data that is wirelessly relayed from the Controller. Screen 2 shows the variables that you can set to be permanently stored on the Controller.

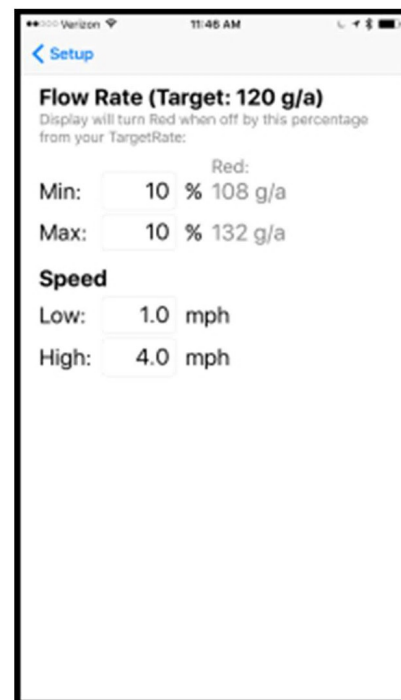
Main AgOtter Screen



Setup Screen



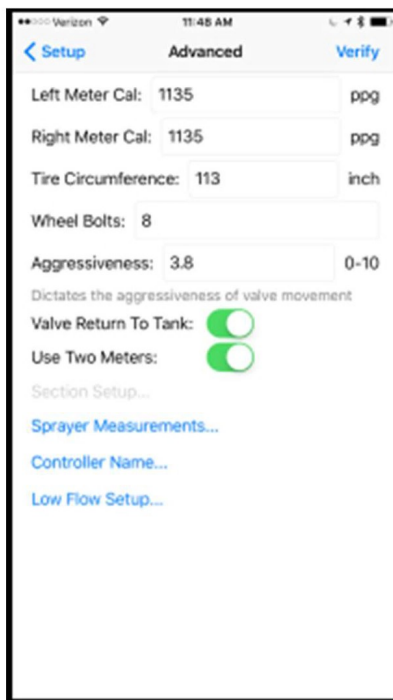
Setup -> Change Alarm



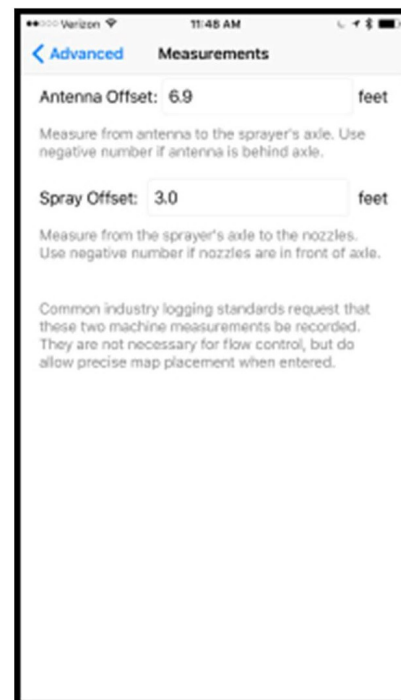
Setup -> Job Notes



Setup -> Advanced

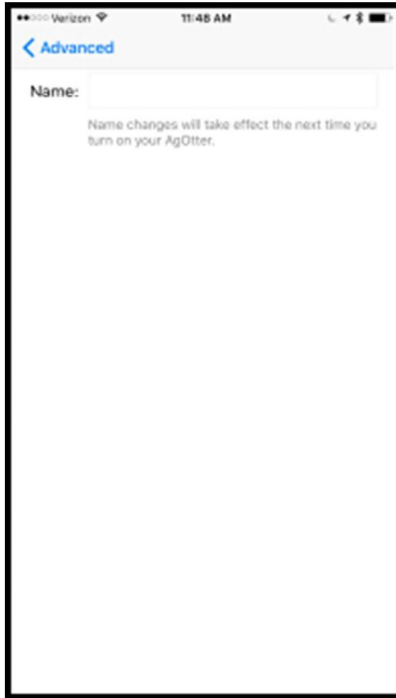


Setup -> Advanced -> Measurements

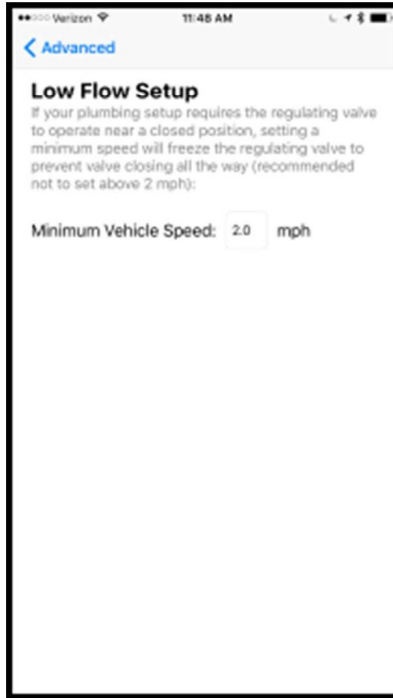


OPTIONS (AgOtter Rate Controller)

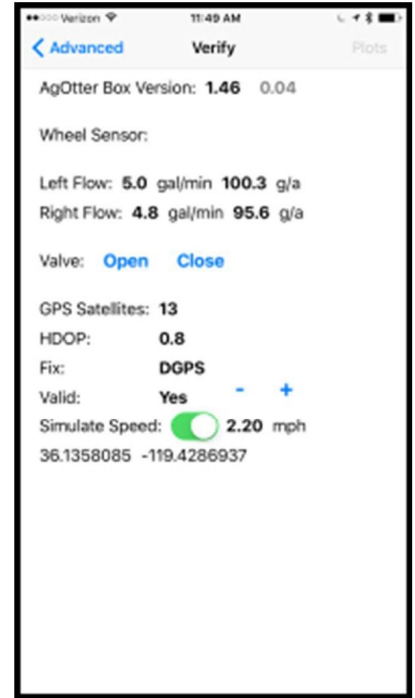
Setup -> Advanced -> Controller Name



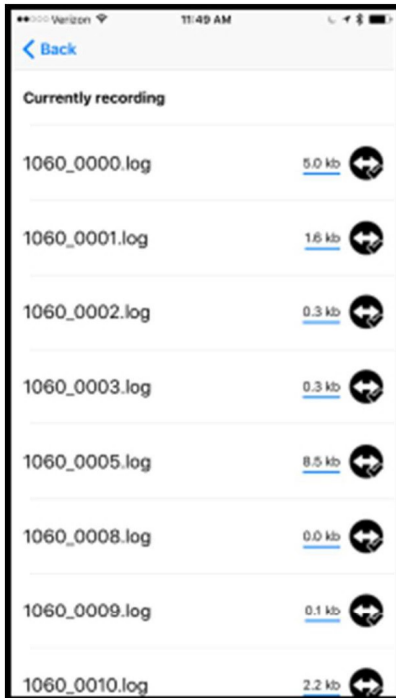
Setup -> Advanced -> Low Flow Setup



Setup -> Advanced -> Verify

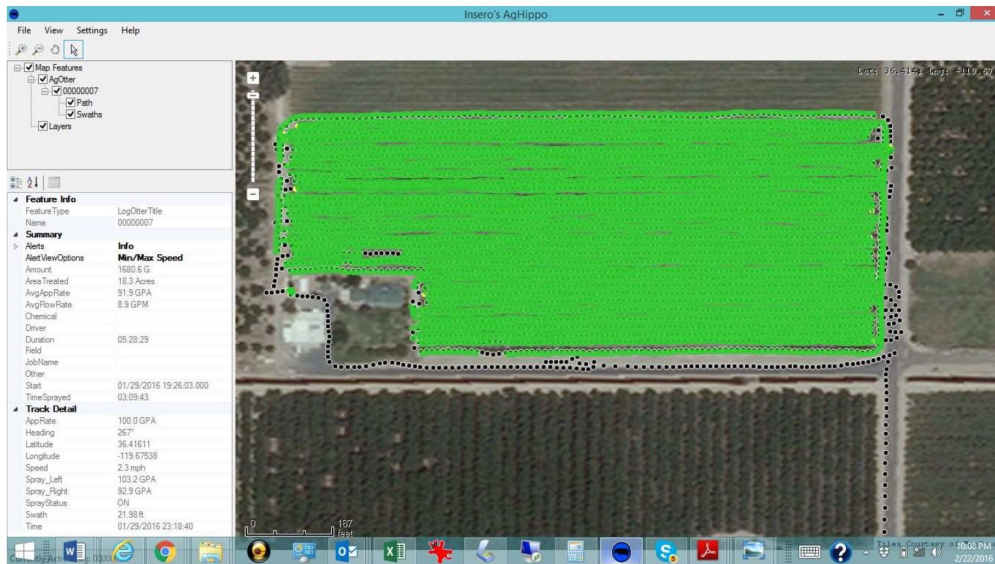


Data Management Logs



OPTIONS (AgOtter Rate Controller)

AgHippo – free desktop software that shows the “As Applied” maps in great detail. You can see the summary report or look at the micro-details of every data point (recorded at 1 second intervals). The user can also see spray time and idle time for every job.



Item#	Part#	Description	Qty
	MKIT-0018 PTO	AgOtter Rate Controller For PTO	1
	MKIT-0018 ED	AgOtter Rate Controller For Engine Drive	1

OPTIONS (Micro-Trak Rate Controller)

The RateKing™ Plus is a single-channel automatic liquid rate controller. The RateKing™ Plus offers a dual display, one screen that provides all aspects of rate and volume management for the target application, and the other display showing the status for output Drive (STD or PWM), Variable Rate Application (VRA) info., Elapsed Hours, Area per Hour, Total Width, Section Status, Volume per minute, Gallons left in tank, Distance and Ground speed. The RateKing™ Plus integrates with industry leaders for flow meters, pressure manifolds, pressure release valves, servo valves and speed sensors.



1
2
3

Item#	Part#	Description	Qty
1	1825	MM53 Magnetic Flowmeter Kit	1
2	18224	1 1/2" KZ Regulating Valve	1
3	1875	Micro Trak Rate Controller - Complete Assembly	1

OPTIONS (Bravo 140 & 130 Tree Targeting)

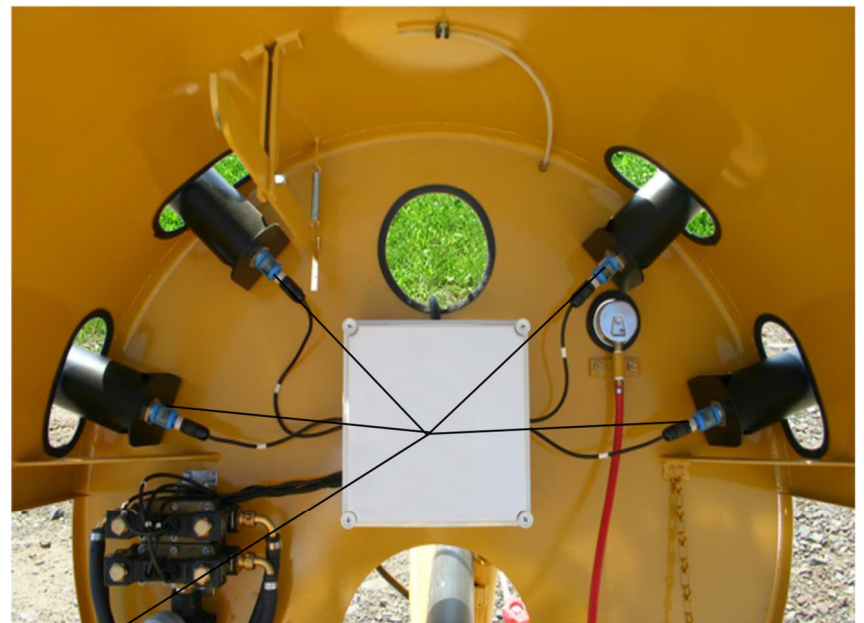
The Bravo Tree Targeting system uses ultrasonic sensors to detect trees and canopies to actuate valves and apply spray just where you need it. This flexible system can adjust spray sensitivity based on canopy volume, so the net effect is that you get the same coverage while using less material. The Bravo Tree Targeting system employs diaphragm check valves and bleed return lines to drop the pressure off the manifold which in turn gives instant on/off at the spray nozzle, all of which can be retrofitted to an existing Air-O-Fan sprayer.



1

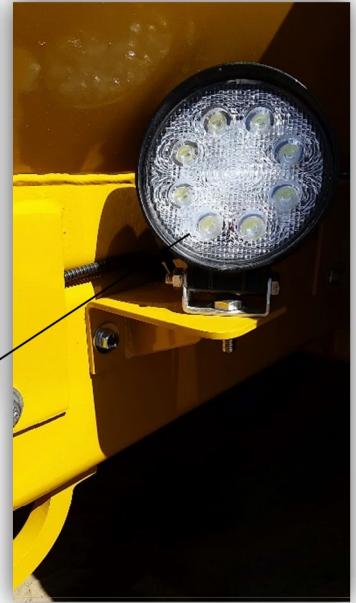


2



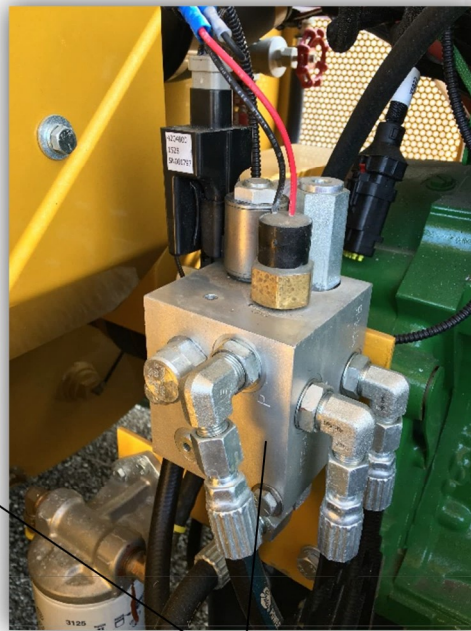
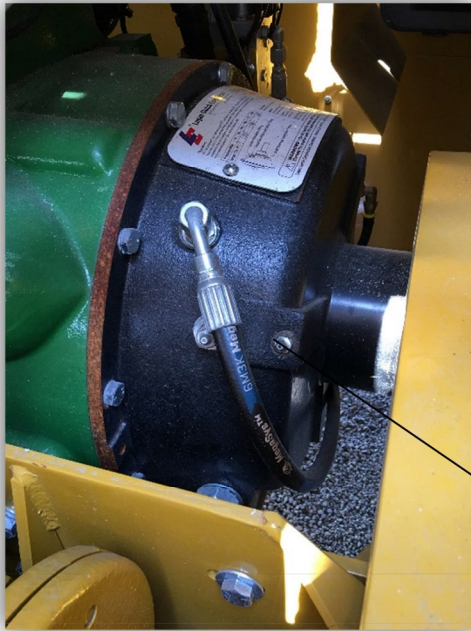
Item#	Part#	Description	Qty
1	S5116A	Bravo 140 Tree Targeting - 2 Ultrasonic Sensors	1
2	S5117	Bravo 130 Tree Targeting - 4 Ultrasonic Sensors	1

OPTIONS (LED Spray Lights)



1

OPTIONS (Clutch)



2

Item#	Part#	Description	Qty
1	S5125	Light Kit	1
2	S5133	Clutch Assembly	1

OPTIONS (Limb Deflector)



1



1



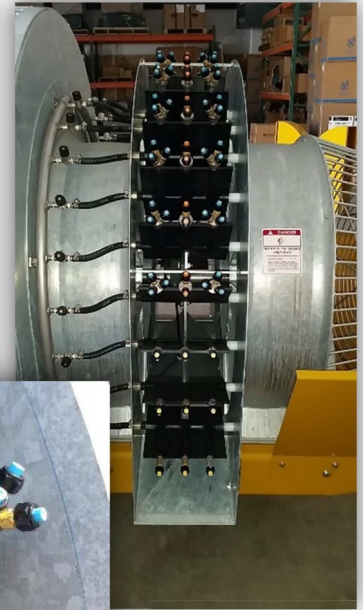
OPTIONS (Leaf Guard)



2

Item#	Part#	Description	Qty
1	S5130	Limb Deflector	1
2	S5131	Leaf Guard	1

OPTIONS (Dual-Port & Tri-Port Nozzle)



1

2

OPTIONS (Diaphragm Manifold Check Valves)



3

Item#	Part#	Description	Qty
1	S5111A	Dual Port Nozzle	1
2	S5112A	Tri Port Nozzle	1
3	S5113A	No Drip Check Valve	1

DECALS



GREASE HERE

500 GAL-STAINLESS

600 GAL-STAINLESS

1000 GAL-STAINLESS

D2-36

D2-40

D2-40R

DILUTE & CONCENTRATE

100 —

200 —

300 —

400 —

500 —

600 —

700 —

800 —

900 —

1000 —

DECALS

GREASE HERE

WARNING

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

WARNING

Filter Must Be Kept
Clean To Prevent
Damage To Pumps



WARNING



ROTATING PART HAZARD

To prevent serious injury or death from rotating parts:

1. Close access door before operating.
2. Place all controls in neutral, stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Keep hands, feet, hair and clothing away from moving parts.



CAUTION

CHECK WHEEL LUG TORQUE
AFTER FIRST 500 REVOLUTIONS.
THEN CHECK PERIODICALLY
THERE AFTER.

TORQUE SPECIFICATIONS

Q888	75-85 ft./lbs.
Q821	80-90 ft./lbs.
75-8	85-100 ft./lbs.
10,000	250-265 ft./lbs.

CHECK WHEEL BEARINGS
QUARTERLY



DANGER



ROTATING PART HAZARD

To prevent serious injury or death from rotating parts:

Keep hands, feet, hair and clothing away from moving parts.

DECALS

REMOVE CONTROLS FROM TRACTOR BEFORE UNHITCHING

CAUTION

1. Read and understand Operator's Manual before using.
2. Read Chemical manufacturer's WARNINGS, instructions and procedures before starting and follow them exactly.
3. Place all controls in neutral, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
4. Always wear proper eye, breathing and clothing protection.
5. Stay away from chemicals and drift. Keep others away.
6. Install and secure all guards before starting.
7. Keep hands, feet, hair and clothing away from moving parts.
8. Do not allow riders.
9. Keep all chemicals and hydraulic lines, fittings and couplers tight and free of leaks before starting and operating.
10. Review safety instructions with all operators annually.

WARNING!
RADIATOR MUST BE KEPT CLEAN TO PREVENT OVERHEATING

NOTE:
CHARGED AIR COOLER MUST BE REMOVED TO CLEAN PROPERLY

DANGER



TOXIC CHEMICAL HAZARD

WEAR RUBBER GLOVES	WEAR APPROVED RESPIRATOR	DON'T INGEST CHEMICAL
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To prevent serious injury or death:

<ol style="list-style-type: none"> 1. Do not allow chemical or solution to touch skin. Some can be absorbed through the skin. 2. Wear rubber gloves and protective gear at all times. 	<ol style="list-style-type: none"> 1. Stay away from chemical splash and vapor. Keep others away. 2. Wear proper respirator when working with chemicals. 	<ol style="list-style-type: none"> 1. Chemicals can be toxic. 2. If in eyes or mouth, read chemical manufacturer's instructions and follow exactly. 3. Seek medical attention immediately. 4. A poison control number is normally inside the front cover of your telephone book.
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DANGER



ROTATING FAN HAZARD
KEEP AWAY

To prevent serious injury or death from rotating fan:

1. Keep guards in place over fan intake and outlet when operating.
2. Place all controls in neutral, stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Keep hands, feet, hair and clothing away from rotating fan.



QUALITY

BUILT

AIR-0-FAN

SINCE

1945®