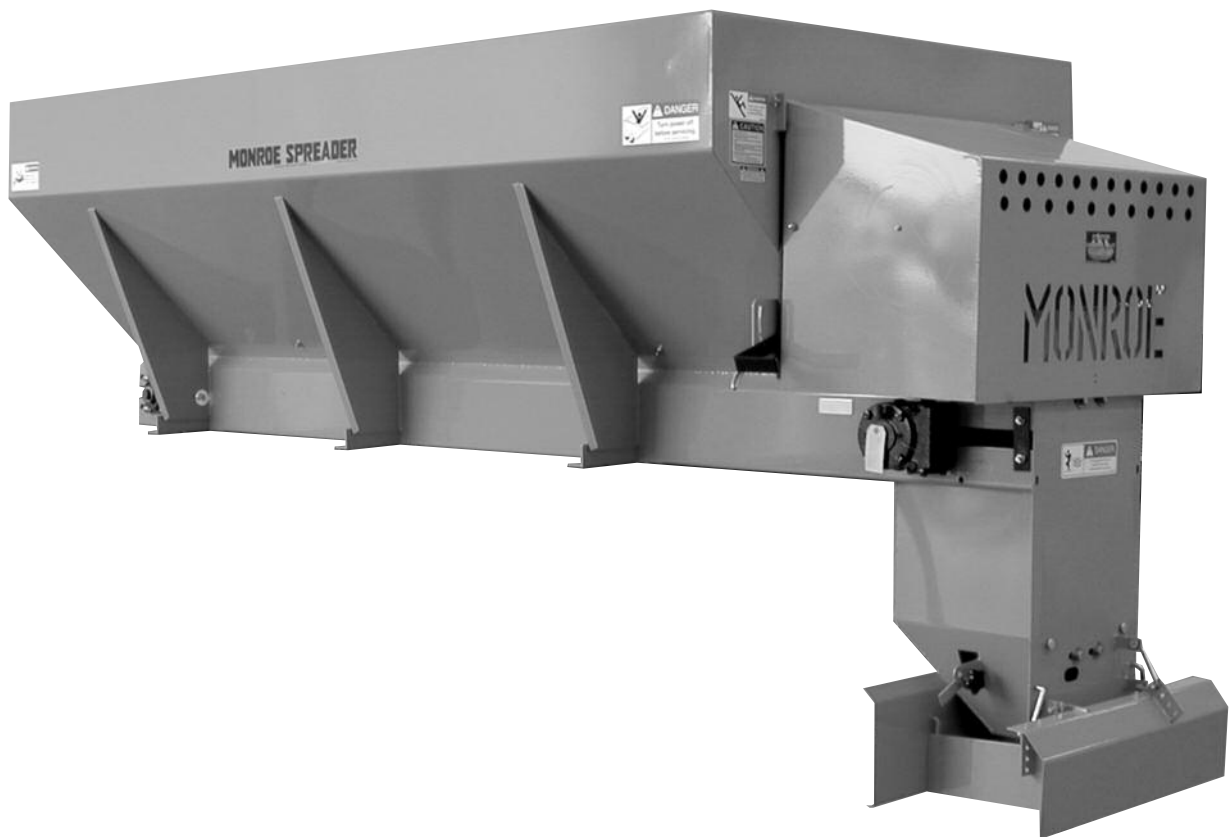




MID-SIZE V-BOX SPREADER

Installation and Parts Manual



MONROE SNOW & ICE CONTROL

A Division of Monroe Truck Equipment

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05050955
09072000

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SAFETY INSTRUCTIONS

- Read all installation, safety and maintenance instructions completely before operating this equipment.
- Keep all personnel clear of moving parts while pickup v-box is being operated.
- Read and understand the following warning, danger and caution decals attached to this spreader. *(For locations of decals, see [page 56.](#))*

"DANGER Turn power off before servicing."

"WARNING Stay clear. Wear eye protection."

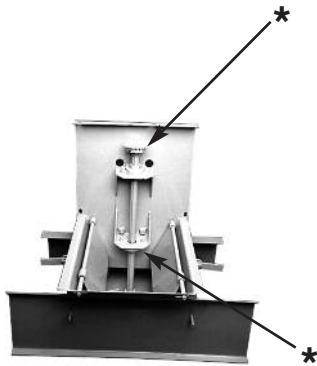
"CAUTION Keep hands and feet away from conveyor."

"DANGER Turning spinner throws material. Stay clear while spinner is turning."

"CAUTION

1. Keep all shields in place.
 2. Make sure everyone is clear of machine before starting engine or operation.
 3. Keep hands, feet and clothing away from power driven parts.
 4. Stop engine or shut off hydraulics and set parking brake before leaving operator's position.
 5. Make sure machine is solidly supported while it is being mounted, dismounted or stored.
 6. Use flashing lights when operating machine."
- Do not operate a spreader in need of maintenance! Repair immediately!
 - While operating this equipment, use common sense, use caution, be alert and be safety-conscious.
 - Top grates ***must*** be installed under top grate hold down gussets. (See page 17)
 - Turn fuel shut off valve to off position when equipment is not in use.

MAINTENANCE INSTRUCTIONS



Front view of spinner assembly



* Location of grease fittings.

NOTE: STOP ENGINE OR SHUT OFF HYDRAULICS BEFORE SERVICING

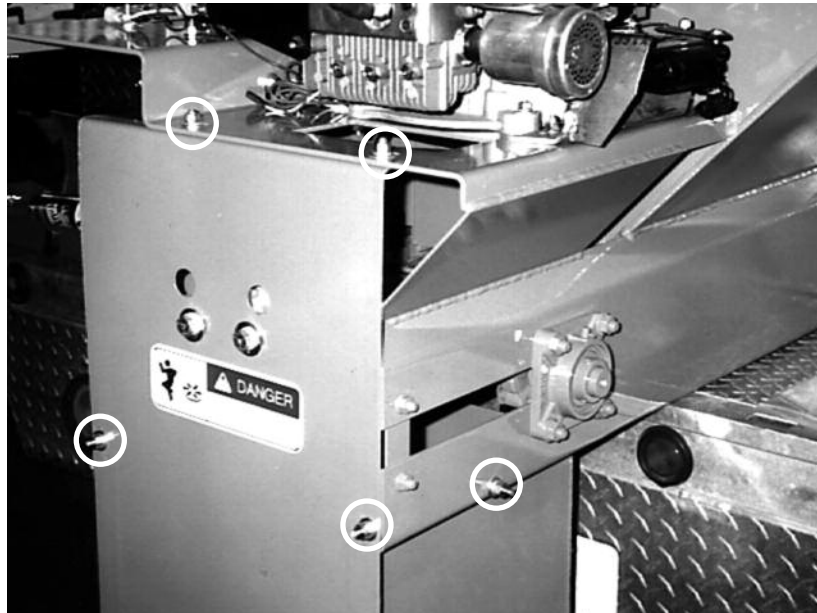
- Grease idler bearings on idler shaft takeup assembly, outboard bearing on gearbox output shaft, and spinner bearings according to chart on page 13.
- Grease input shaft bearing of gearbox every fifty hours of operation. (Reference [page 52-53](#) for gearbox parts) **CAUTION:** Over greasing may cause seal damage. The gearbox must be filled to oil level plug with SAE 90 gear-type lubricant. Keep breather plug clean.
- Drag chain slack on V-boxes should be checked periodically and taken up if distance between center line of rear sprocket and point where chain contacts lower flange on longmember is less than eight (8) inches.
- If the spreader is equipped with a gasoline engine, it should be maintained per engine manufacturer's instruction.
- V-belt tension must be maintained. **CAUTION:** Engine must NOT be running. The v-belt can be tightened by loosening engine mounting bolts and sliding engine as required. **CAUTION:** Over tightening may damage gearbox. Retighten engine mounting bolts after belt adjustment.
- Roller chain tension must be maintained. **CAUTION:** Engine and hydraulics MUST be off! It is adjusted by loosening the spinner mounting bearings and sliding the bearings. Make sure the spinner shaft is straight up and down before retightening. Oil the chain often, especially at the end of the season.
- When the box is not in use, it should be washed out. If the box is put in storage, all surfaces should be oiled or painted after washing.

INSTALLATION INSTRUCTIONS

Installing Spinner Assembly to Spreader:

- Raise spreader to allow ground clearance for spinner assembly installation. Slide spinner assembly into the rear slots of the longmembers. Attach spinner to the longmembers using (2) $\frac{3}{8}$ " x $7\frac{1}{2}$ " L-bolts, (4) $\frac{3}{8}$ " flat washers, (2) $\frac{3}{8}$ " lock washers and (4) $\frac{3}{8}$ " nuts. Bolt top portion of spinner back plate to the engine mounting plate using (2) $\frac{3}{8}$ " x $1\frac{1}{4}$ " bolts, (4) $\frac{3}{8}$ " flat washers, (2) $\frac{3}{8}$ " lock washers and (2) $\frac{3}{8}$ " nuts. Tighten all (6) nuts at this time. *(All mounting hardware is located in bag inside spreader box.)*
- Install roller chain between gearbox sprocket and spinner sprocket. Align sprockets by loosening allen screw in gearbox sprocket, and adjusting vertically as needed. Adjust chain tightness by loosening (4) bolts of spinner shaft mount and moving for desired chain tension. Retighten bolts and allen screw. *(Make sure spinner shaft is straight up and down before retightening bolts.)*
- For spinner attaching hardware, see [page 42](#).

Spinner to spreader fasten points:



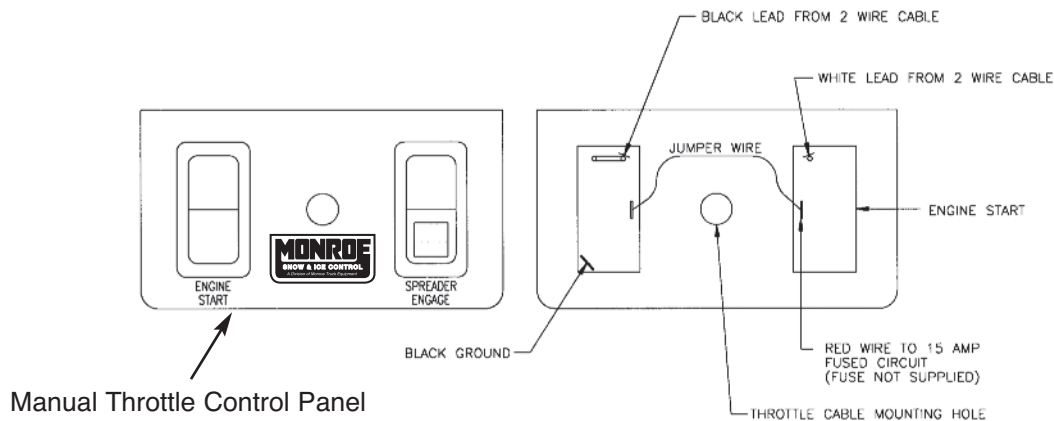
INSTALLATION INSTRUCTIONS

Installing Manual Throttle Control:

(Reference [page 47](#) for parts)

- Attach end of throttle cable to engine throttle. Anchor end to engine with hold down and route the cable forward along spreader frame to cab floorboard. Drill hole in floorboard, insert grommet, remove handle and retaining nut on manual throttle control cable and route cable into cab. **DO NOT MAKE SHARP BENDS OR KINK THROTTLE CABLE!** Route cable through manual throttle control panel, and reattach retaining nut and handle. Mount manual throttle control panel in convenient location under dashboard.
- Install wire harness to manual throttle control panel as shown in diagram below.

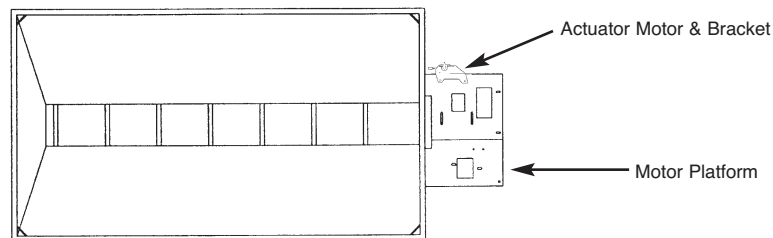
For additional information, reference the Briggs & Stratton Engine Manual



INSTALLATION INSTRUCTIONS

Installing Standard Electric Throttle Control: --ACTUATOR--

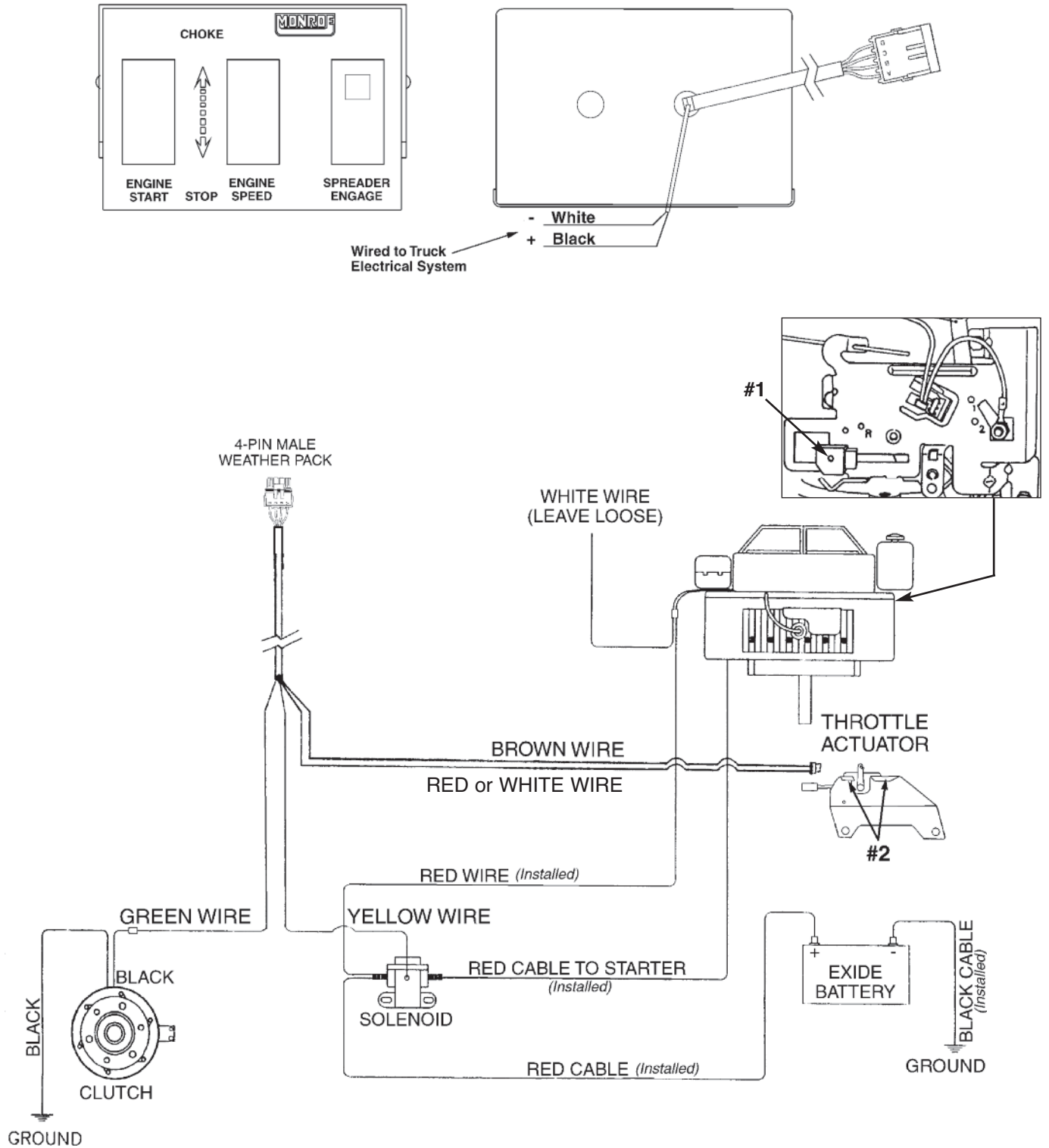
- Bolt the throttle actuator motor to the throttle control bracket using the three #8-32 x $\frac{5}{8}$ " machine screws, lock washers, and nuts provided. Make sure the throttle actuator arm extends up between the u-shaped slot in the bracket. (Tighten the screws.)
- Install the plastic throttle block, with the pin being inserted into the engine throttle slide. (See the following page, reference #1)
- Remove the two right side engine mounting bolts.
- Insert throttle actuator arm pivot pin into the hole on the plastic throttle block and bolt the throttle control bracket to right side of engine mount using the bolts previously removed. (Tighten bolts.) Actuator and control bracket should be in position as shown in diagram below.



- Connect the short 4-wire harness to the throttle actuator motor, electric clutch and starter solenoid switch as shown on the following page. Route the harness down to the bottom rear of the spreader, keeping it away from any moving parts or any sharp edges.
- Find a convenient place to install the control panel in the truck cab using the mounting bracket supplied. Attach the gray harness to the truck electrical system by connecting the white wire to ground and the black wire to a good 12 VDC power source.
- Route the long 4-wire harness from the back of the control panel down through the floor and along the frame of the truck to the rear. Be sure to keep the harness away from exhaust, moving parts and sharp edges. Connect the two harnesses together at the rear of the truck using the 4-pin Weather Pak connector.
- With all the wires now connected, use the throttle switch to move the actuator arm in both directions. Engine throttle slide should move from the stop position (fully rearward) to the choke position (fully forward) without any binding. Tabs may have to be bent down slightly to achieve full movement. (See the following page, reference #2)
- Visually check the oil and gasoline level in engine. Check all other adjustments such as chain, bearings, belt, pulleys and sprockets for tightness and alignment. Turn on in-line gas valve and make sure all safety shields are in place.
- Fully choke engine and push the starter button. Once engine has started, bring throttle back to idle or half speed.

INSTALLATION INSTRUCTIONS

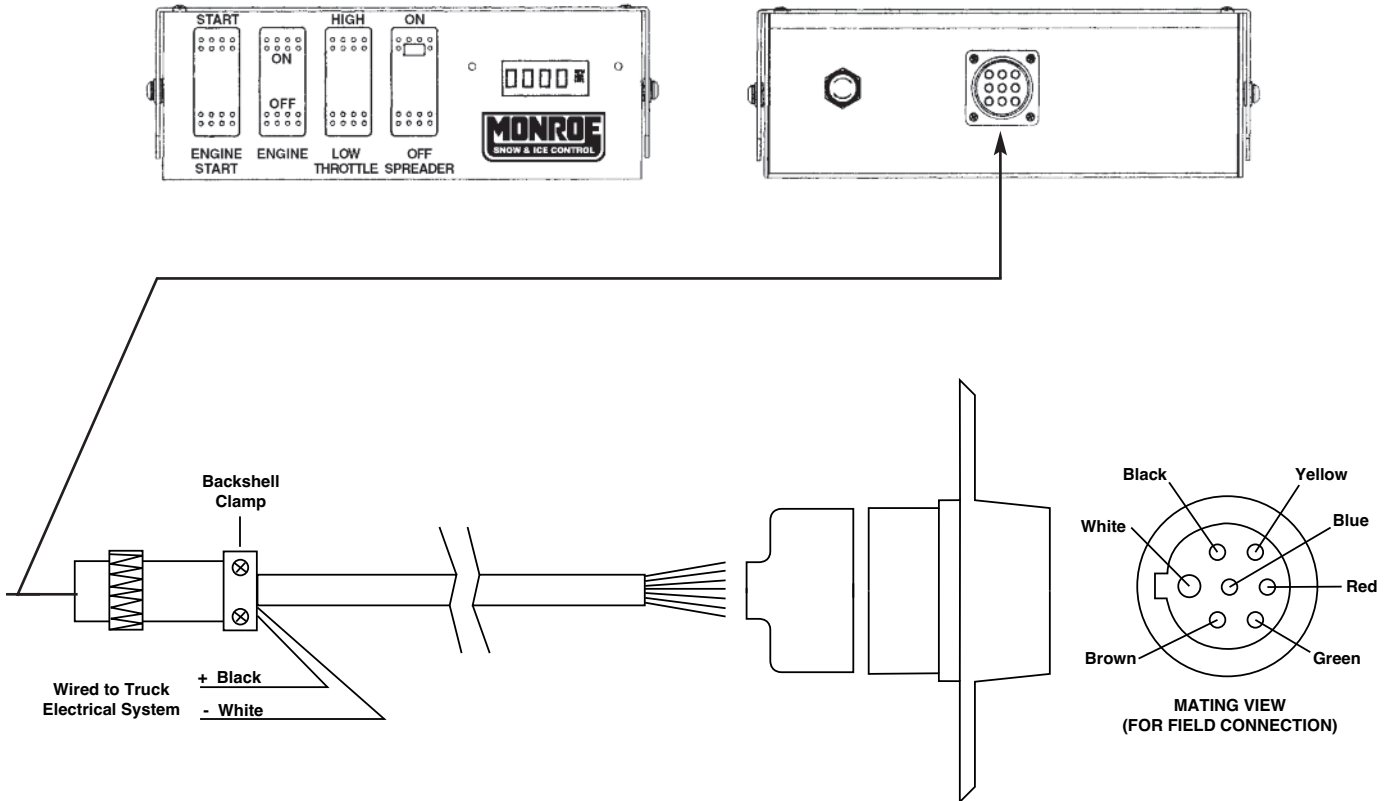
Installing Standard Electric Throttle Control: *(Continued)*



INSTALLATION INSTRUCTIONS

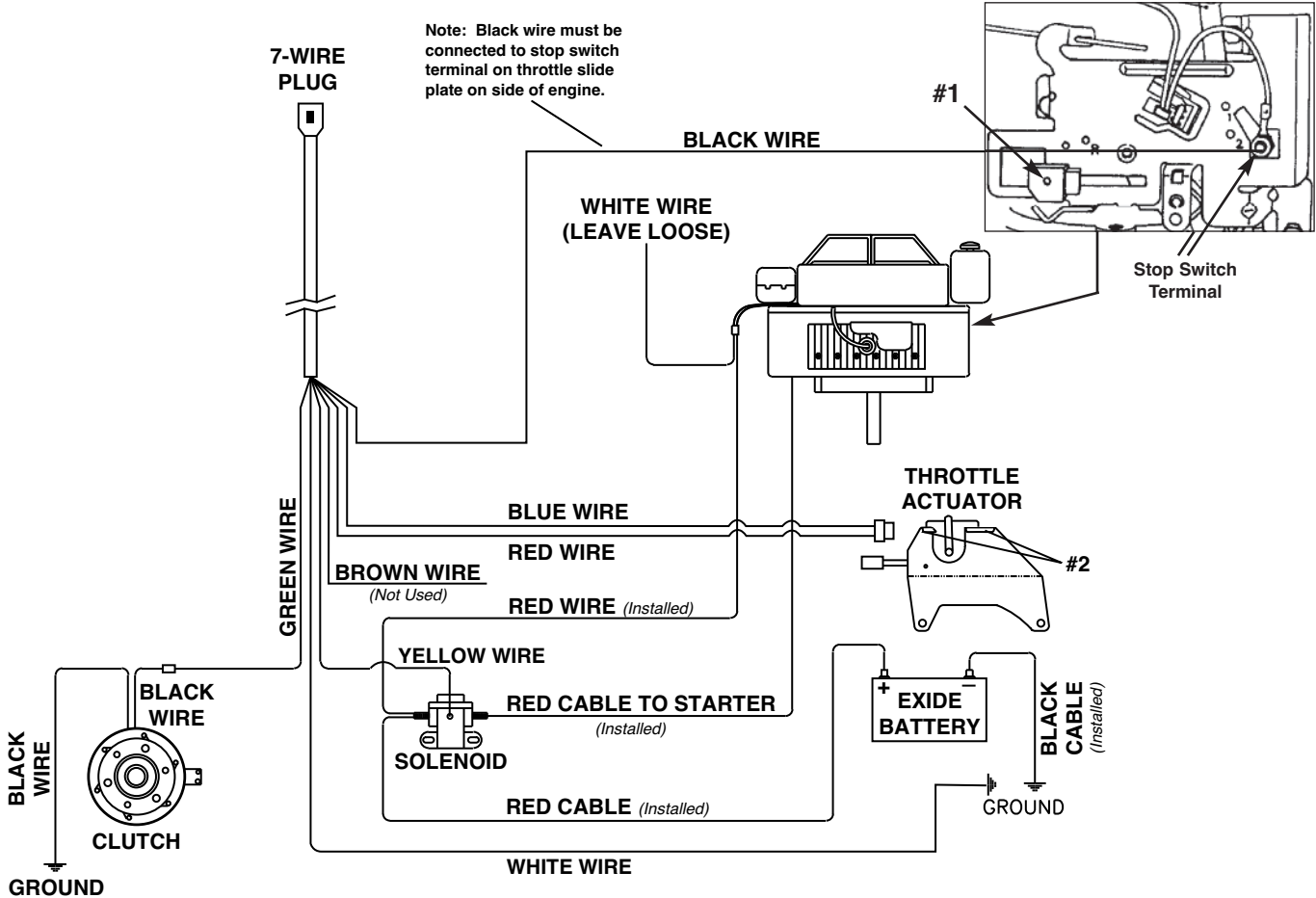
Installing New Style Deluxe Throttle Control: (OPTIONAL)

- Use similar procedure as electric throttle installation (pages 6-7) except use deluxe control panel and 7-wire harness as shown below and on the following page.



INSTALLATION INSTRUCTIONS

Installing New Style Deluxe Throttle Control: *(Continued)*



INSTALLATION INSTRUCTIONS

Installing the Pickup V-Box Spreader Into Truck Using the *Optional* 00057595 Mounting Kit:

(See page 57 for replacement parts)

- Lift spreader (with spinner attached) onto bed of truck and center. Leave 1" gap between rear bumper and spinner.
- Attach (4) eyebolts in corners of truck sides. Fasten each with (1) $\frac{3}{8}$ " lock nut and (2) $\frac{3}{8}$ " flat washers.
- Attach each of (4) chains to spreader ribs with (1) $\frac{3}{8}$ " x $1\frac{1}{2}$ " bolt, (1) $\frac{3}{8}$ " flat washer, (1) $\frac{3}{8}$ " lock washer and (1) $\frac{3}{8}$ " nut. Drill holes in ribs higher than eyebolts so chains will provide constant down pressure as well as preventing backward to forward and side to side movement.
- Hook (4) turnbuckles onto eyebolts and hook other end to chains that are bolted to spreader ribs. Tighten turnbuckles so spreader is centered and immovable.



OPERATING INSTRUCTIONS

Operation of electric start:

- All electric start models come with a control panel. If your spreader is an electric start model, look at your control panel. It will have (3) controls mounted on it (the deluxe throttle control panel has 4). The one on the far left is your start button. The far right switch is your electric clutch control. When the switch is in the "off" position, the electric clutch is disengaged and the conveyor and the spinner will stop. In the "on" position, the conveyor and spinner will operate. The center control is your throttle. Your engine is equipped with a semiautomatic choke. To activate the choke, push the throttle switch until throttle is at it's fastest position. To remove choke function decrease throttle speed to desired engine RPM.
- Start the engine and engage the clutch. The amount of material spread, depends on engine speed and gate opening. Decreasing engine RPM and/or gate height will decrease amount spread; the inverse holds true also. Notice that the electric clutch can be engaged or disengaged at any time and at any engine RPM. However, since engagement time and torque is almost instantaneous, to prevent premature spinner chain failure and chain tension loss, it is commended that the electric clutch should be engaged at the lowest possible RPM without killing engine.
- Spread pattern depends on baffle setting and engine RPM, follow the table below to achieve desired results.
- Slowing the engine down past idle will shut off the engine.

Important: When the engine driven Pickup V-Box is transported with the engine not running, or when the Pickup V-Box will not be used for any significant length of time, the fuel shut-off valve in the fuel line must be closed. **(See item 19 on page 22.)** This will prevent the possibility of fuel seeping around the float in the carburetor and entering the engine crank case. To "close" the fuel shut-off valve, turn the knob so it is perpendicular to the fuel line, as shown on page 22. To "open" the valve for normal operation, turn the knob so it is parallel to the fuel line.




Table Symbols: L.B. = Left Baffle; R.B. = Right Baffle; B.B. = Back Baffle

Position of Baffle(s)	Result
1. L.B. in lowest position and R.B. and B.B. in highest position.	1. Immediate baffling effect to the left. With the effect tapering out to 11 ft. left of center pattern about 10 ft. behind the spinner. The pattern to the right and directly behind the spreader will continue as normal.
2. R.B. in lowest position and B.B. and L.B. in highest position.	2. Same as #1 but has the opposite effect on the right side.
3. R.B. and L.B. in lowest position and B.B. in highest position.	3. Immediate baffling effect is noticed on the right and left side with a gradual increase in pattern width proportional to the distance behind the spreader.
4. R.B. and B.B. in lowest position and L.B. in highest position.	4. Pattern: 2 ft. right of center and 10 - 15 ft. left of center.
5. B.B. and L.B. in lowest position and R.B. in highest position.	5. Pattern: 1 - 2 ft. left of center and 1 - 15 ft. right of center.
NOTE: For immediate baffling to the right or left #4 and #5 work the best.	
6. R.B. and L.B. in highest position and B.B. in lowest position.	6. Material will be dropped directly behind spreader and to both sides equally. There will be very little decrease in effective spread width.

GENERAL INFORMATION

- Location descriptions are noted in direction of travel. (i.e. front, rear, left and right.)
- Delivery of replacement parts is subject to our sales delivery terms.
- Use only **Monroe Truck Equipment** O.E.M. replacement parts. Failure to do so will void warranty.
- Replacement parts listed in this manual reflect our most common items. If you do not find the part you require, please call your distributor.
- **Monroe Truck Equipment** reserves the right to make revisions or alterations to this parts manual.

TORQUE CHART

SIZE	 GRADE 2	 GRADE 5	 GRADE 8
1/4-20	50 IN-LBS	75 IN-LBS	9 FT-LBS
3/8-16	15 FT-LBS	23 FT-LBS	35 FT-LBS
1/2-13	35 FT-LBS	55 FT-LBS	80 FT-LBS
5/8-11	75 FT-LBS	110 FT-LBS	170 FT-LBS
3/4-10	130 FT-LBS	200 FT-LBS	280 FT-LBS
1-8	190 FT-LBS	480 FT-LBS	680 FT-LBS
1 1/4-7	380 FT-LBS	840 FT-LBS	1360 FT-LBS

LUBRICATION CHART

LUBRICATION

All bearing units are factory prelubricated and, therefore, do not require supplemental grease before service life begins. Relubrication, when administered correctly, can increase the life of a bearing substantially. We recommend the following general guidelines to maximize your bearing life:

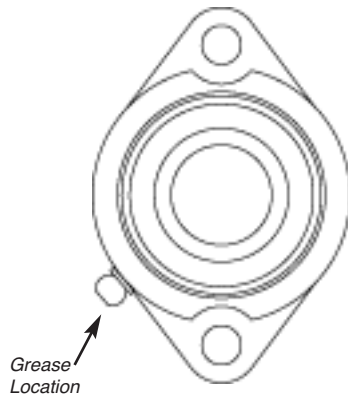
RPM	Temperature	Environmental Condition	Interval
100	32°F-120°F	Clean	6-12 months
500	32°F-150°F	Clean	2-6 months
1,000	32°F-210°F	Clean	2 wks to 2 months
1,500	Over 210°F	Clean	Daily to weekly
Any	32°F-150°F	Dirty	Weekly to monthly
Any	Over 150°F	Dirty	Daily to 2 wks
Any	Any Temp.	Very Dirty	Daily to weekly
Any	Any Temp.	Extremely Dirty	Daily to weekly

NOTE:

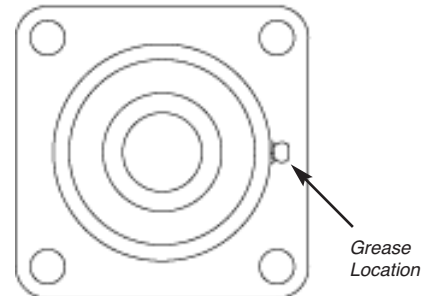
Over lubrication is a major cause of bearing failures. Please relubricate conservatively when unsure of bearing requirements.

When selecting a bearing lubricant, your dealer suggest any lithium-based NLGI #2 grease. For operating temperatures higher than 210°F, please consult your dealer.

BEARING, 1" 2-BOLT FLANGE
PN: 05030023

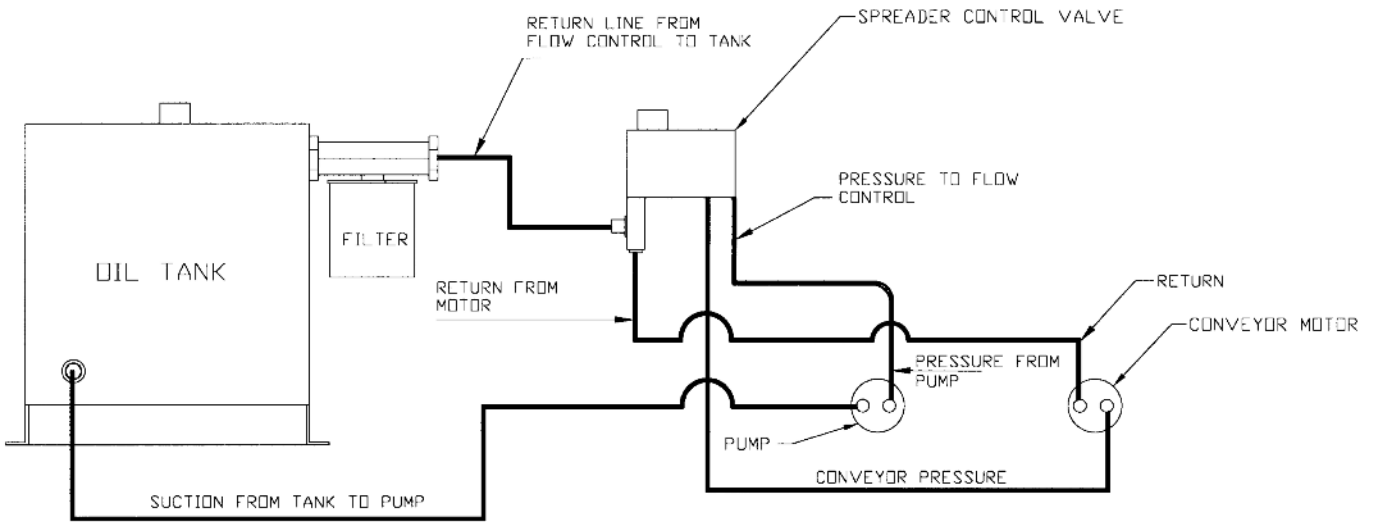


BEARING, 1.25" 4-BOLT FLANGE
PN: 05030029



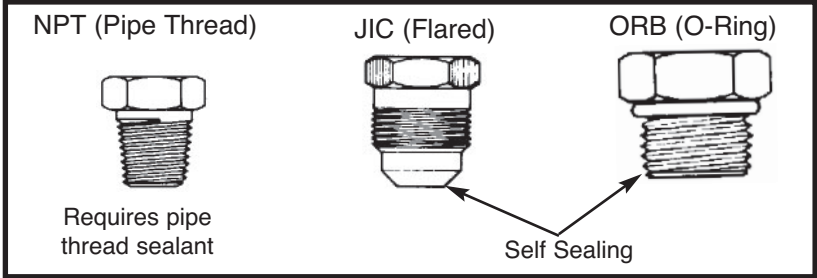
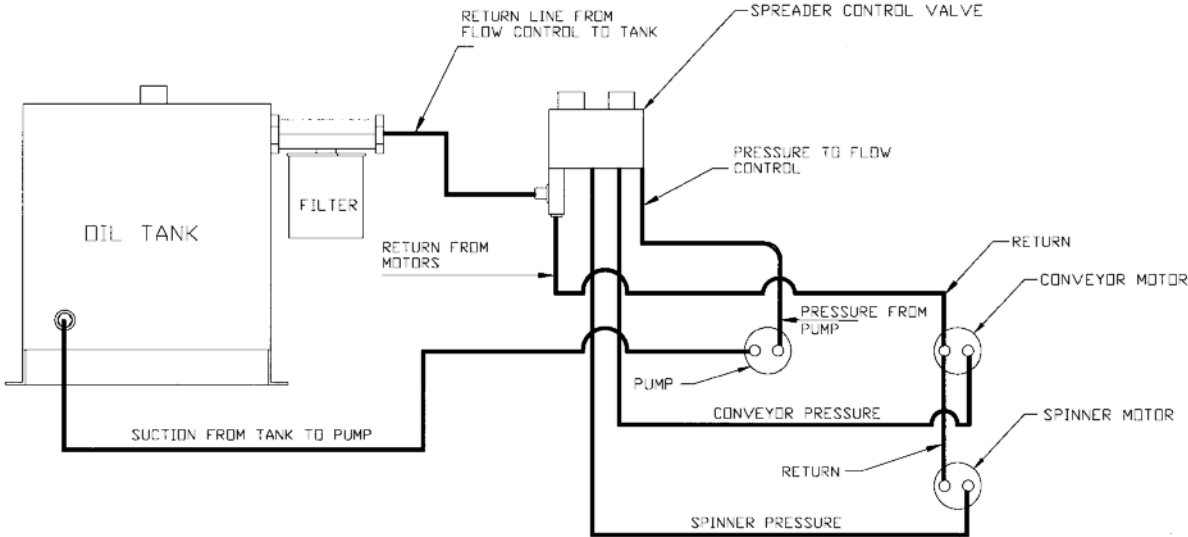
HYDRAULIC SCHEMATICS

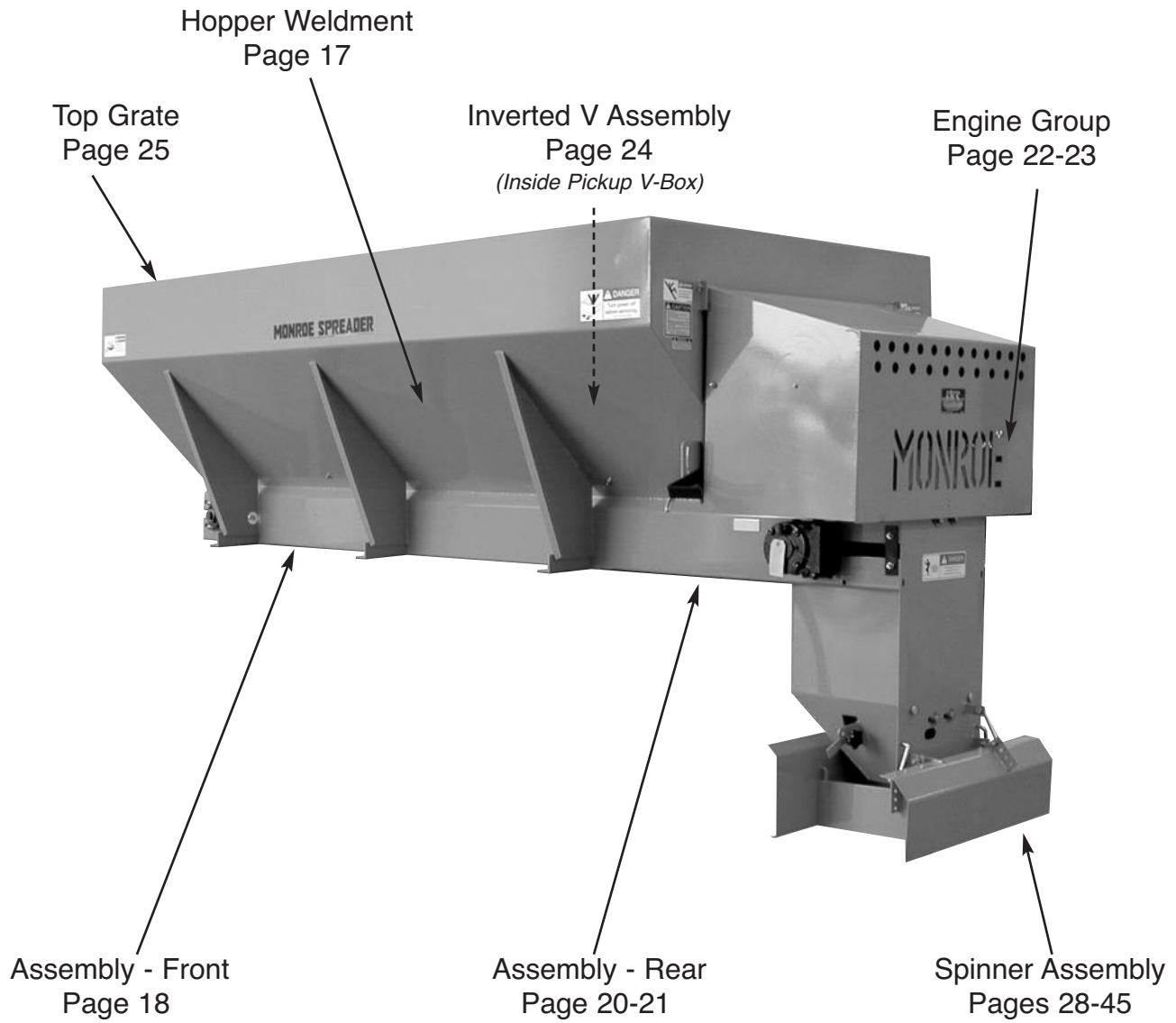
One Motor



HYDRAULIC SCHEMATICS

Two Motors





For Spinner Attaching Group see page 44

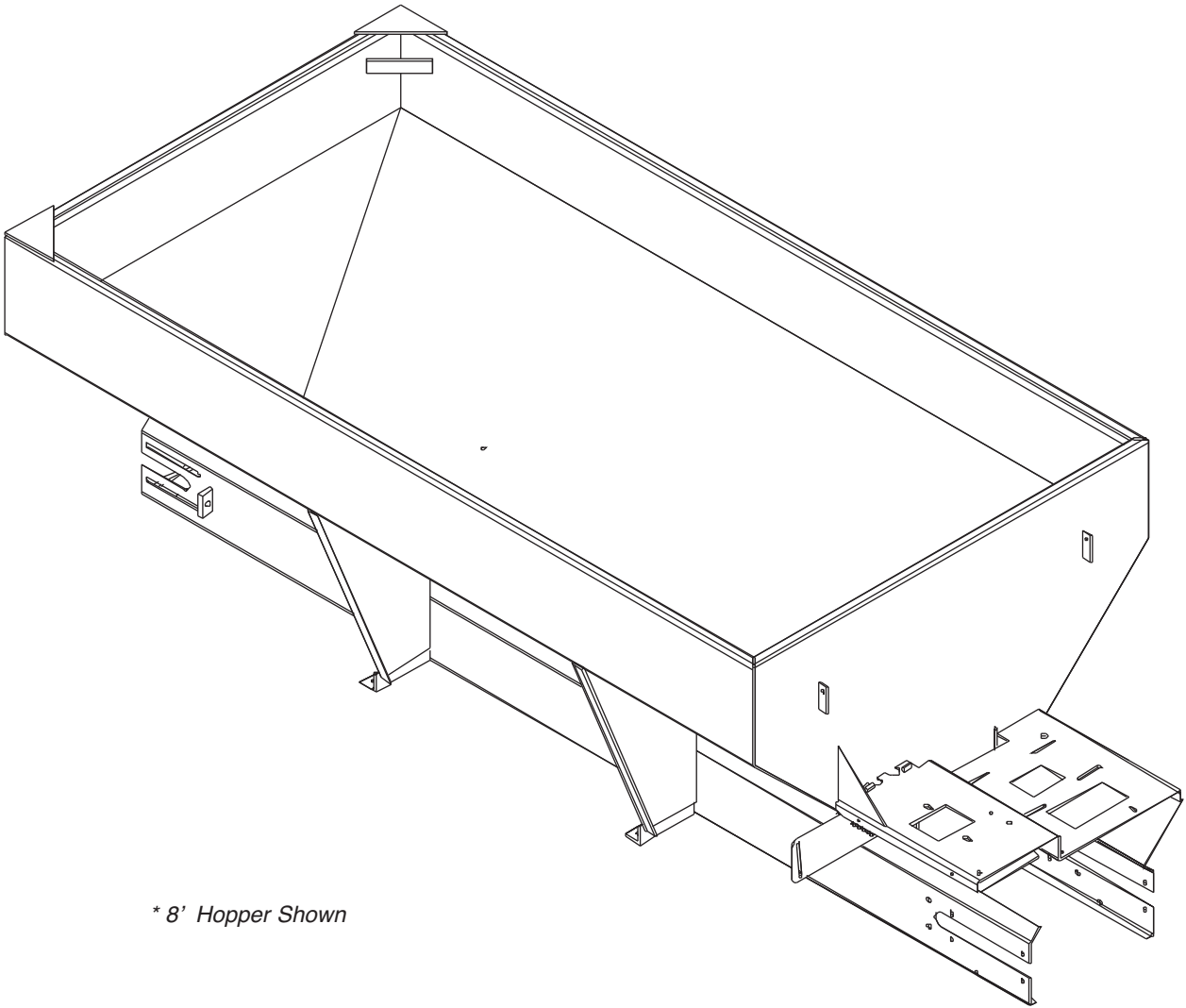
For Manual Throttle Kit see page 46

For Standard Electric Throttle Kit see page 47

For Deluxe Throttle Kit see page 49

For Decal Locations see page 63

HOPPER WELDMENT

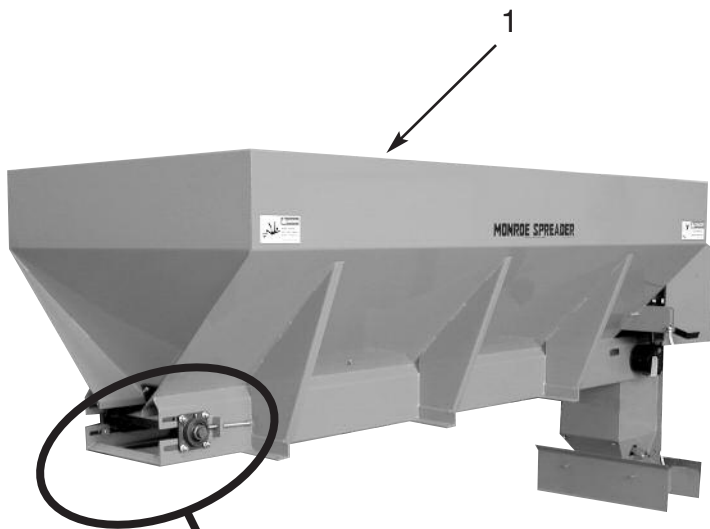


* 8' Hopper Shown

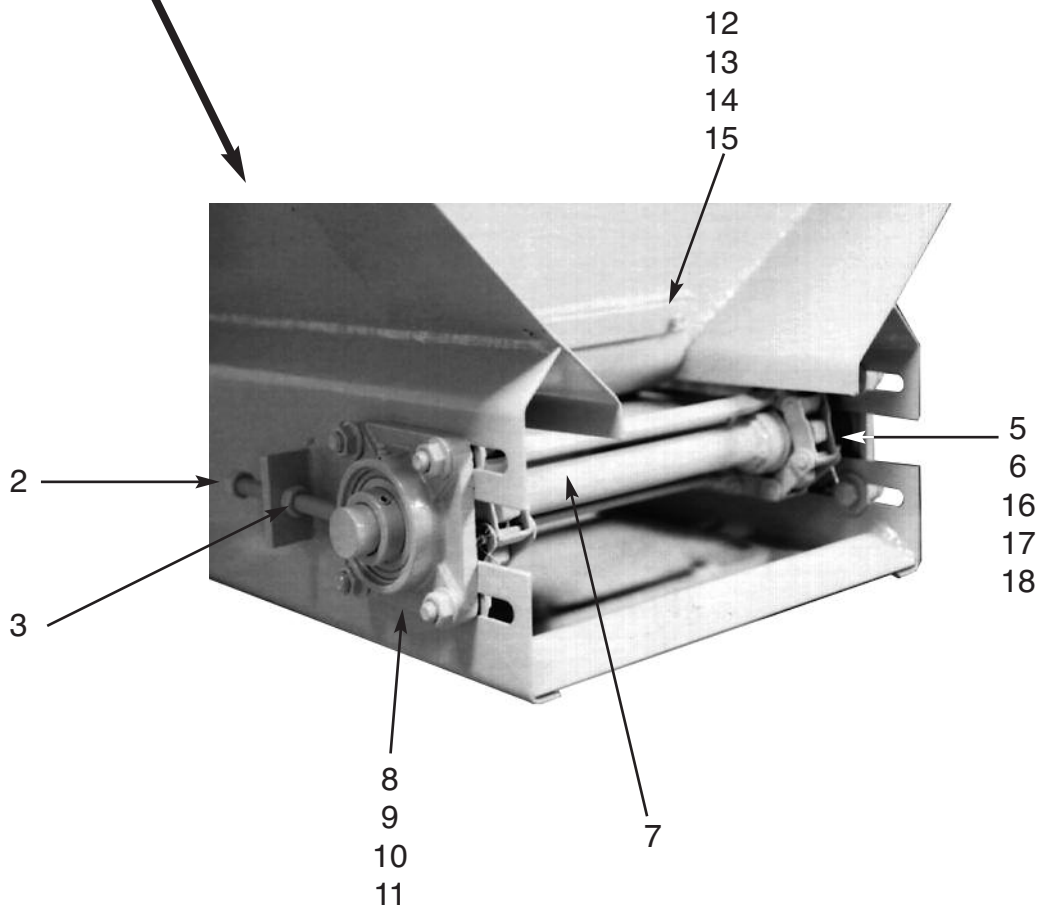
ITEM	QTY	PART #	DESCRIPTION
1	1	00056206-A	Hopper Weldment, 96-38-50, MS
		00056206-B	Hopper Weldment, 96-38-50, 304 SST
2	1	00056207-A	Hopper Weldment, 108-38-50, MS
		00056207-B	Hopper Weldment, 108-38-50, 304 SST
3	1	00056209-A	Hopper Weldment, 108-44-50, MS
		00056209-B	Hopper Weldment, 108-44-50, 304 SST
4	1	00056208-A	Hopper Weldment, 120-38-50, MS
		00056208-B	Hopper Weldment, 120-38-50, 304 SST
5	1	00056210-A	Hopper Weldment, 120-44-50, MS
		00056210-B	Hopper Weldment, 120-44-50, 304 SST

* Above dimensions are to be read as, 96" Long - 38" Height - 50" Wide.

FRONT PV ASSEMBLY

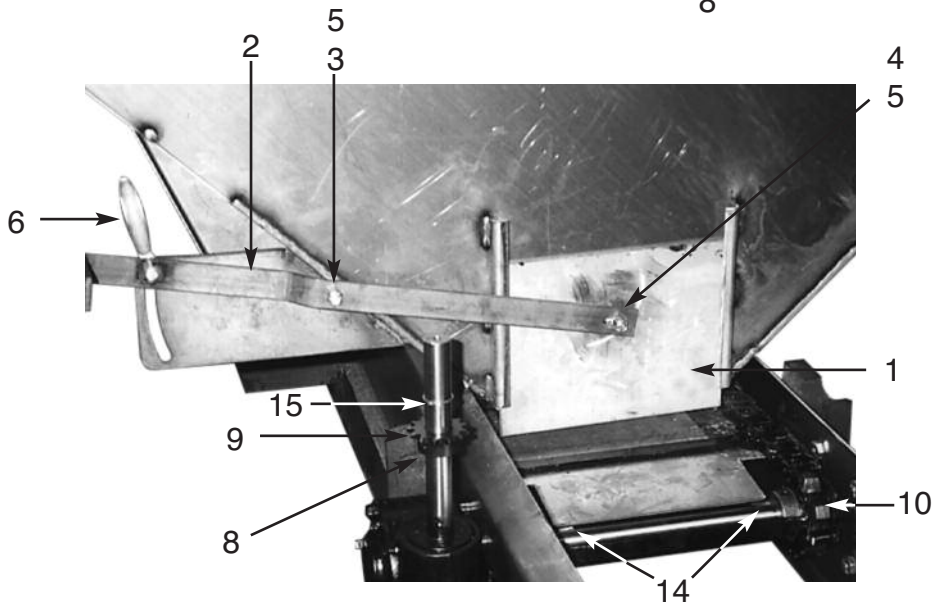
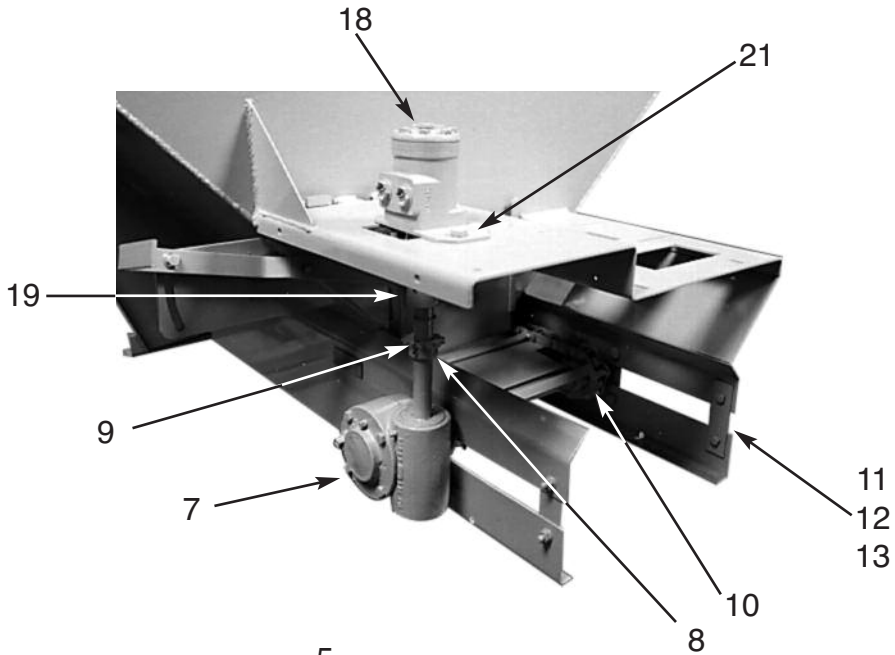
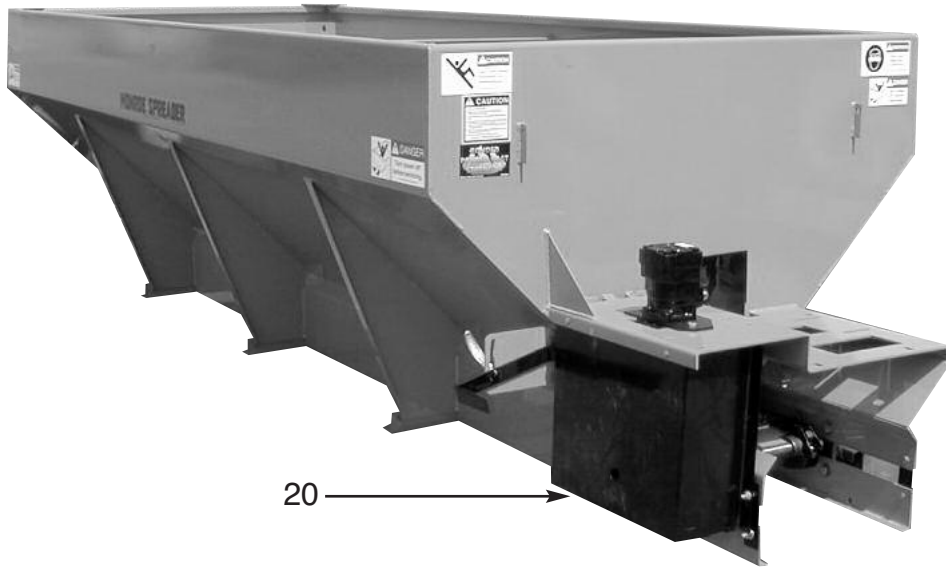


PASSENGER'S SIDE



ITEM	QTY	PART #	DESCRIPTION
1	1		Hopper Weldment
2	2	05016106	Bolt, ½-13 x 7", Zinc
3	4	05020268	Nut, ½-13, GR8, Hex, Zinc
4	1	00012629-A	Center Lift, Bolt-On, MSPV, MS (Not Shown)
	1	00012629-B	Center Lift, Bolt-On, MSPV, 304 SST (Not Shown)
5	1	05036017	Chain, Pintle, 8', 124 Links
	1	00012363	Chain, Pintle, 9', 140 Links
	1	05036263	Chain, Pintle, 10', 152 Links
6	1	05033024	Sprocket, 6 Tooth, 1¼" Bore
7	1	00057415	Shaft, Idler, 1¼" Dia. x 20½" with (1) sprocket welded on it
8	3	05030029	Bearing, 1¼" Dia., 4-Bolt
9	12	05010690	Bolt, ½-13 x 1¼", GR8, HHCS, Zinc
10	12	05020847	Nut, ½-13, GR8, Top Lock, C&W
11	12	05021309	Washer, ½", Flat, Zinc
12	1	00057412-A	Shield Bar, Rubber, MS
	1	00057412-B	Shield Bar, Rubber, 304 SST
	1	00057412-C	Shield Bar, Rubber, 409 SST
13	1	05051221	Wiper, 4¼" x 9½"
14	2	05010618	Bolt, ⅝-18 x 1", GR8, HHCS, Zinc
15	2	05020909	Nut, ⅝-18, GR8, Top Lock, Zinc
16	A/R	05036118	Cross Bar, ¼" Thick x ¾" Wide
17	A/R	05036111	Link, Chain, 662
18	A/R	05022108	Pin, ¼" x 1⅝", with Cotter Pin

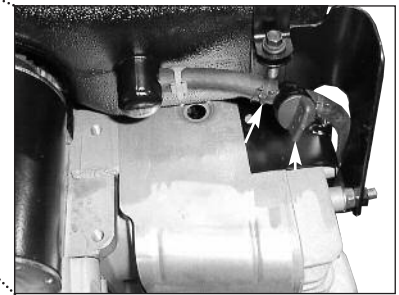
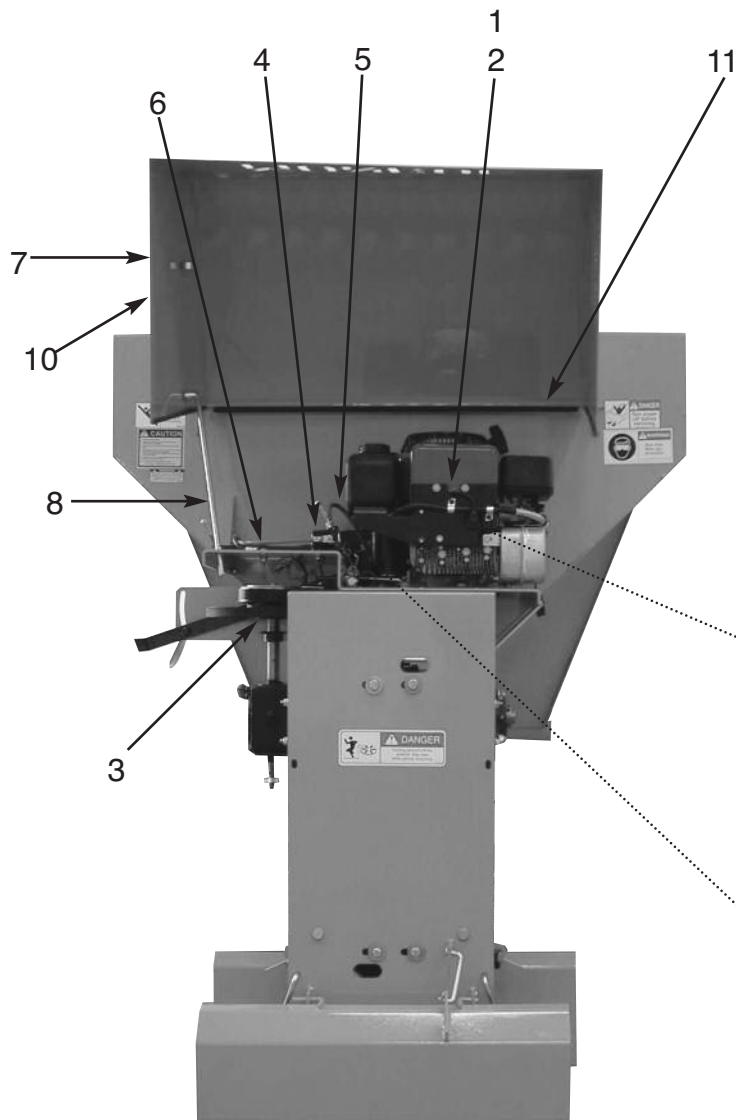
REAR PV ASSEMBLY



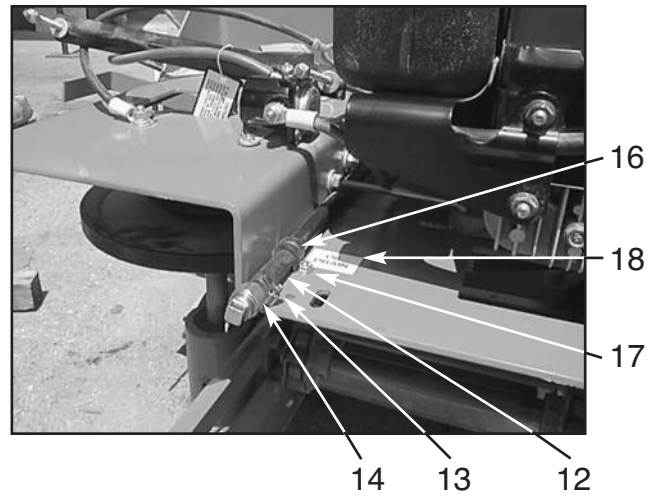
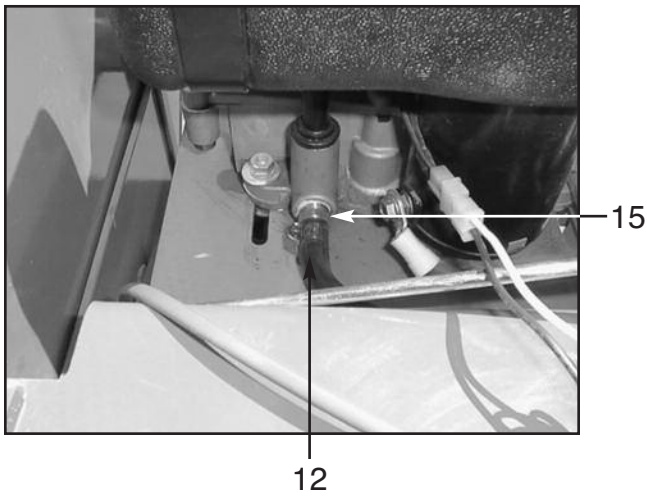
ITEM	QTY	PART #	DESCRIPTION
1	1	<i>00057172-A</i> <i>00057172-B</i> <i>00057172-C</i>	<i>Door, Rear, Mild Steel</i> Door, Rear, 304 Stainless Steel Door, Rear, 409 Stainless Steel
2	1	<i>00042790</i> 00042791	<i>Handle Weldment, Door, Rear, Mild Steel</i> Handle Weldment, Door, Rear, 304 Stainless Steel
3	1	<i>00057193</i> 00057194	<i>Redi-Bolt, 3/8-16 x 1 1/2", Mild Steel</i> Redi-Bolt, 3/8-16 x 1 1/2", 304 Stainless Steel
4	1	<i>05010641</i>	<i>Bolt, 3/8-16 x 3/4", GR8, HHCS, Zinc</i>
5	2	<i>05020898</i>	<i>Nut, 3/8-16, GRC, Top Lock, Cad & Wax</i>
6	1	<i>05020841</i>	<i>Nut, 3/8-16 x 4 1/4" Handle</i>
7	1	<i>05007160</i>	<i>Gearbox, 20:1, 1 1/4" Output Shaft</i> (See page 53 for parts breakdown)
8	2	<i>05051284</i>	<i>Key, 1/4" x 7/8", Woodruff</i>
9	1	<i>05033006</i>	<i>Sprocket, 1" Dia., 13-Tooth</i>
10	3	<i>05033024</i>	<i>Sprocket, 1 1/4" Dia., 6-Tooth</i>
11	2	<i>00057409</i> 00057410 00057411	<i>Stiffener Plate, Mild Steel</i> Stiffener Plate, 304 Stainless Steel Stiffener Plate, 409 Stainless Steel
12	4	<i>05010642</i>	<i>Bolt, 3/8-16 x 7/8", GR8, HHCS, Zinc</i>
13	4	<i>05020898</i>	<i>Nut, 3/8-16, GR8, Top Lock, Zinc</i>
14	2	<i>05050121</i>	<i>Keyway, 1/4" x 1/4" x 1 1/2"</i>
15	1	<i>05051283</i>	<i>Ring, 1", Snap</i>
16	4	<i>05010689</i>	<i>Bolt, 1/2-13 x 1", GR8, HHCS, Zinc</i> (Not Shown, used on gearbox)
17	4	<i>05021367</i>	<i>Washer, 1/2", Lock, Zinc</i> (Not Shown, used on gearbox)
18	1	05006673	Motor, Hydraulic, 3.2 C.I.D. (Optional)
19	1	05051201	Coupler, Shaft, 1" x 4" (Optional)
20	1 1 1	<i>00057233-A</i> 00057233-B 00057233-C	<i>Drive Cover, MS</i> (Hydraulic Drive Only) Drive Cover, 304 SS Drive Cover, 409 SS
21	1 1	<i>00022314-A</i> <i>00022314-B</i>	<i>Mounting Plate Weldment, Motor, MS</i> <i>Mounting Plate Weldment, Motor, 304</i>

STANDARD ITEMS FOR THE PV ASSEMBLY ARE NOTED IN *ITALICIZED* TYPE

PV ENGINE GROUP



Fuel Shut Off Valve in Off Position

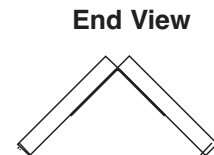
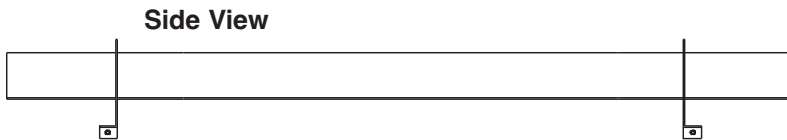
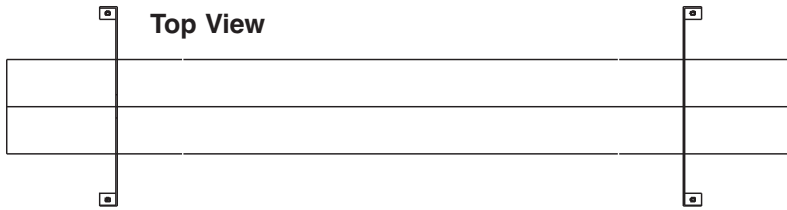


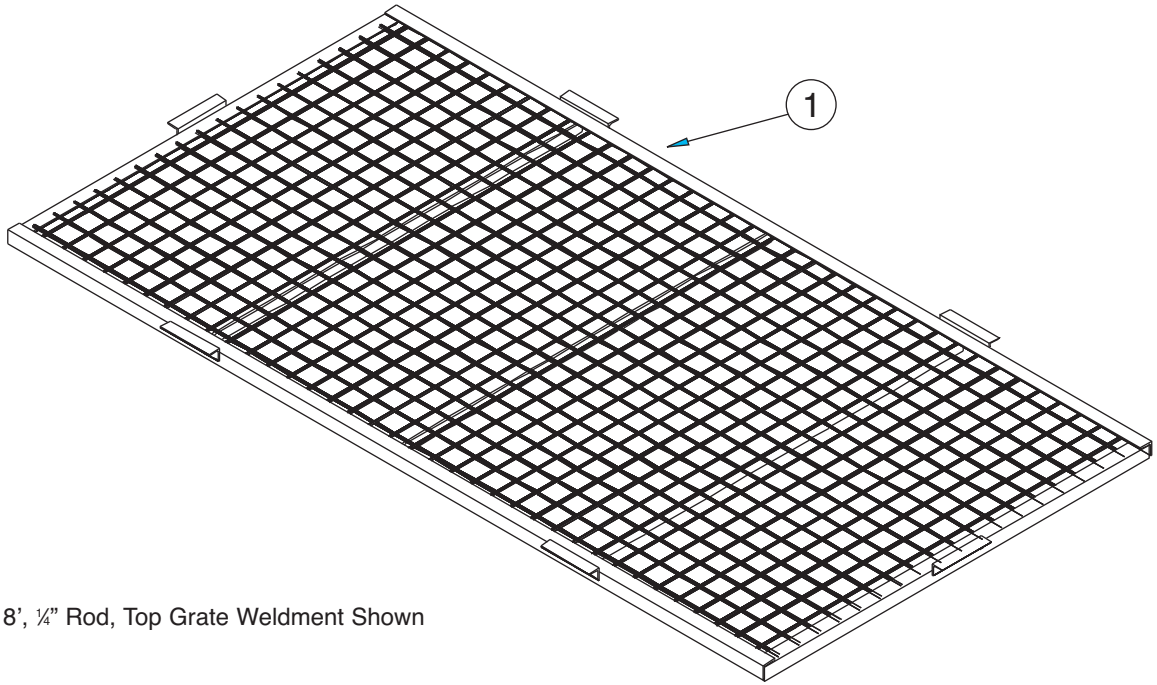
ITEM	QTY	PART #	DESCRIPTION
1	1	05005041	Engine, 10.5 HP, EPA Emission
2			Engine Bolt Kit, PV (3) 05010621 Bolt, 5/16-18 x 1 1/4", GR8, HHCS, Zinc (6) 05020265 Nut, 5/16-18, GR8, Hex, Zinc (9) 05021306 Washer, 5/16", Flat, Zinc (6) 05021364 Washer, 5/16", Lock, Zinc (1) 05051070 Rod, 5/16-18 x 8 1/2", 90°, Threaded
3			Clutch/Pulley Group, PV (1) 00069497 Clutch, 12 Volt (2 piece) (1) 05034003 Pulley, 11" Dia., 3.016" Center Hole (1) 05051329 V-Belt, 1/2" Gates, PV (1) 00057446-A Bracket, Clutch Retaining, Mild Steel (2) 05010591 Bolt, 1/4-20 x 3/4", GR8, HHCS, Zinc (2) 05020264 Nut, 1/4-20, GR8, Hex, Zinc (2) 05021363 Washer, 1/4", Lock, Zinc (1) 05034007 Pulley, V-Belt, 2 1/2" Dia. (1) 05050121 Keyway, 1/4" x 1/4" x 1 1/2" (1) 05010616 Bolt, 5/16-18 x 3/4", GR8, HHCS, Zinc (1) 05021459 Washer, 5/16" I.D., 1 1/4" O.D., Fender, Zinc (1) 05010614 Bolt, 5/16-18 x 1/2", GR8, HHCS, Zinc (4) 05021364 Washer, 5/16", Lock, Zinc
4			Solenoid Kit, PV, 12 Volt (1) 05041067 Solenoid, 12-Volt (2) 05010591 Bolt, 1/4-20 x 3/4", GR8, HHCS, Zinc (2) 05020264 Nut, 1/4-20, GR8, Hex, Zinc (2) 05021363 Washer, 1/4", Lock, Zinc (4) 05021305 Washer, 1/4", Flat, Zinc
5			Cable Group, PV (1) 05041010 Cable, Red, 11" (Starter to Solenoid) (1) 05041012 Cable, Red, 20" (Battery to Solenoid) (1) 05041011 Cable, Black, 19" (Battery to Ground) (1) 05010619 Bolt, 5/16-18 x 1 1/4", GR8, HHCS, Zinc (1) 05020265 Nut, 5/16-18, GR8, Hex, Zinc (3) 05021306 Washer, 5/16", Flat, Zinc (1) 05021364 Washer, 5/16", Lock, Zinc
6			Battery Hold Down Kit, PV, Mild Steel (1) 00057449-A Battery Hold Down Angle, Mild Steel (2) 05051068 Rod, 1/4-20 x 12", 90°, Threaded (4) 05020899 Nut, 1/4-20, GRC, Top Lock, Cad & Wax (4) 05021305 Washer, 1/4", Flat, Zinc
*7	1	00095119-A 00095119-B 00095119-C	Shield Weldment, Engine, Mild Steel Shield Weldment, Engine, 304 Stainless Steel Shield Weldment, Engine, 409 Stainless Steel
*8	1 2 1	00057247 05021307 05020851	Rod, Hood, 17 1/2" OAL, Carbon Steel Washer, 3/8", Flat, Zinc Nut, 3/8-16, Acorn, Zinc
*9	1 2 1 1	05022072 05022090 05050248 05050313	Pin, 5/32" x 7/8", Roll, Zinc (Not Shown) Pin, 3/8" x 3", No Head, with hole (Not Shown) Hood Catch, 3" T-Handle, Rubber, with Bracket (Not Shown) Clip Holder, Zinc (Not Shown)
*10	2	00057575	Engine Hood Trim, Black, 20", Side Seal
*11	1	00011655	Engine Hood Trim, Black, 33 1/4", Top Seal
12	1 1/4'	05037507	Hose, 3/8" I.D., Engine Oil Drain
13	2	05037282	Clamp, 1/2", Hose, SS
14	1	05037506	Hose Barb, 3/8" FNPT x 3/8" Barb, Brass
15	1	05037505	Hose Barb, 3/8" MNPT x 3/8" Barb, Brass
16	1	05050164	Clamp, 1/2", Cushioned Metal
17	1	05010591	Bolt, 1/4-20 x 3/4", GR8, HHCS, Zinc
	1	05020605	Nut, 1/4-20, G5, Spinlock, Zinc
18	1	05051518	Decal, "Oil Drain"

STANDARD ITEMS FOR THE PV ENGINE GROUP ARE NOTED IN **ITALICIZED** TYPE
 *Items 7-11 can be purchased as an assembly using the following part numbers: **00056273-A Engine Hood, Mild Steel**
00056273-B Engine Hood, 304 SS
00056273-C Engine Hood, 409 SS

INVERTED V KITS, 8', 9', 10'

ITEM	QTY	PART #	DESCRIPTION
1	1	00057251-A	Inverted V Weldment, MSPV, 8', MS
	1	00057251-B	Inverted V Weldment, MSPV, 8', 304 SST
	1	00029473-A	Inverted V Weldment, MSPV, 9', 10', MS
	1	00029473-B	Inverted V Weldment, MSPV, 9', 10', 304 SST
2	4	05010642	Bolt, $\frac{3}{8}$ - 16 x $\frac{7}{8}$, G8, HHCS, Zinc
	4	05010641	Bolt, $\frac{3}{8}$ - 16 x $\frac{3}{4}$, G8, HHCS, Zinc
	4	05016050	Bolt, $\frac{3}{8}$ - 16 x $\frac{7}{8}$, HHCS, SST
3	4	05020607	Nut, $\frac{3}{8}$ - 16, G2, Spinlock, Zinc
	4	05020840	Nut, $\frac{3}{8}$ - 16, Spinlock, SST





* 8', 1/4" Rod, Top Grate Weldment Shown

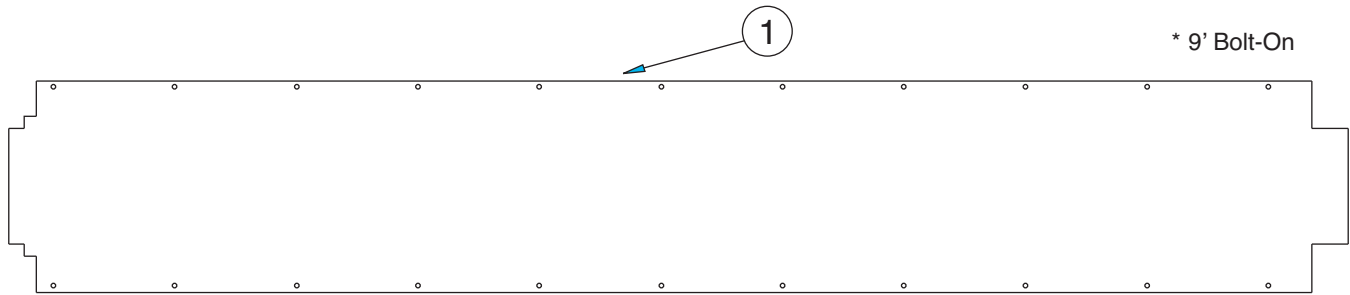
MSPV TOP GRATE WELDMENTS, 1/4" ROD

ITEM	QTY	PART #	DESCRIPTION
1	1	00057509	Top Grate Weldment, 8', 1/4" Rod
	1	00038000	Top Grate Weldment, 9', 1/4" Rod
	1	00044948	Top Grate Weldment, 10' 1/4" Rod

MSPV TOP GRATE WELDMENTS, 3/8" ROD

ITEM	QTY	PART #	DESCRIPTION
1	1	00057593	Top Grate Weldment, 8', 3/8" Rod
2	1	00057593	Top Grate Weldment, 9', 3/8" Rod
3	1	00051097	Top Grate Kit, 10', 3/8" Rod
	2	00012204	Top Grate Weldment, MSPV, 60, 58" 47 3/4"

FLOOR KITS

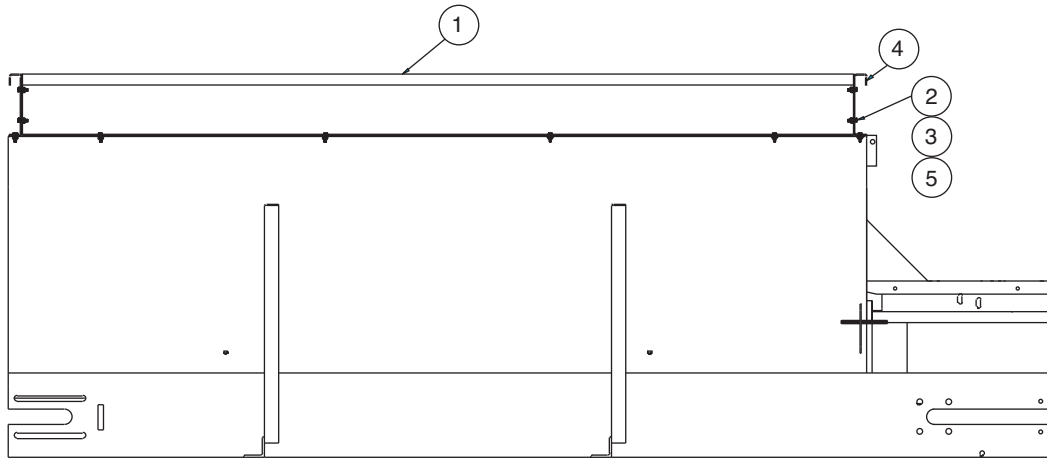


8', 9', 10' FLOOR KIT, BOLT-ON, STEEL

ITEM	QTY	PART #	DESCRIPTION
1	1	00038957	Floor 8', MS, Bolt-On
	1	00038969-A	Floor 8', 304 SST, Bolt-On
	1	00038969-B	Floor 8', 409 SST, Bolt-On
	1	00048376	Floor, 9', MS, Bolt-On
	1	00048377-A	Floor, 9', 304 SST, Bolt-On
	1	00048377-B	Floor, 9', 409 SST, Bolt-On
	1	00048378	Floor, 10', MS, Bolt-On
	1	00048379-A	Floor, 10', 304 SST, Bolt-On
	1	00048379-B	Floor, 10', 409 SST, Bolt-On
2	-	05010618	Bolt, $\frac{5}{16}$ -18 x 1", G8, HHCS, Zinc
	-	05016138	Bolt, $\frac{5}{16}$ -18 x 1", HHCS, SST
3	-	05020606	Nut, $\frac{5}{16}$ -18, G2, Spinlock, Zinc
	-	05020901	Nut, $\frac{5}{16}$ -18, Spinlock, SST

8', 9', 10' FLOOR KIT, BOLT-ON, POLY

ITEM	QTY	PART #	DESCRIPTION
1	1	00042745	Floor, 8', Bolt-On Poly
	1	00048353	Floor, 9', Bolt-On Poly
	1	00048354	Floor, 10', Bolt-On Poly
2	1	00044968-A	Floor Brace Weldment, MS <i>(Not Shown)</i>
	1	00044968-B	Floor Brace Weldment, 304 SST <i>(Not Shown)</i>
	1	00044968-C	Floor Brace Weldment, 409 SST <i>(Not Shown)</i>
3	2	05016000	Screw, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ ", Flat
	2	05016033	Screw, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ ", Flat, SST
4	2	05010644	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ ", G8, HHCS, Zinc
	2	05016049	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ ", HHCS, SST
5	4	05020607	Nut, $\frac{3}{8}$ -16, G2, Spinlock, Zinc
	4	05020840	Nut, $\frac{3}{8}$ -16, Spinlock, SST



*8' Shown

00057518, 00057519, 6" EXTENSION KIT, 96X50X6

ITEM	QTY	PART #	DESCRIPTION
1	2	00034584-A	Extension Weldment, 96x50x6, MS
	2	00034584-B	Extension Weldment, 96x50x6, 304 SST
2	22	05010618	Bolt, $\frac{5}{16}$ - 18 x 1, G8, HHCS, Zinc
3	22	05020265	Nut, $\frac{5}{16}$ - 18, G8, Hex, Zinc
4	2	00023106-A	Extension Panel, 6 x 50 $\frac{1}{2}$, MS
	2	00023106-B	Extension Panel, 6 x 50 $\frac{1}{2}$, 304
5	22	05021364	Washer, $\frac{5}{16}$, Lock, Zinc

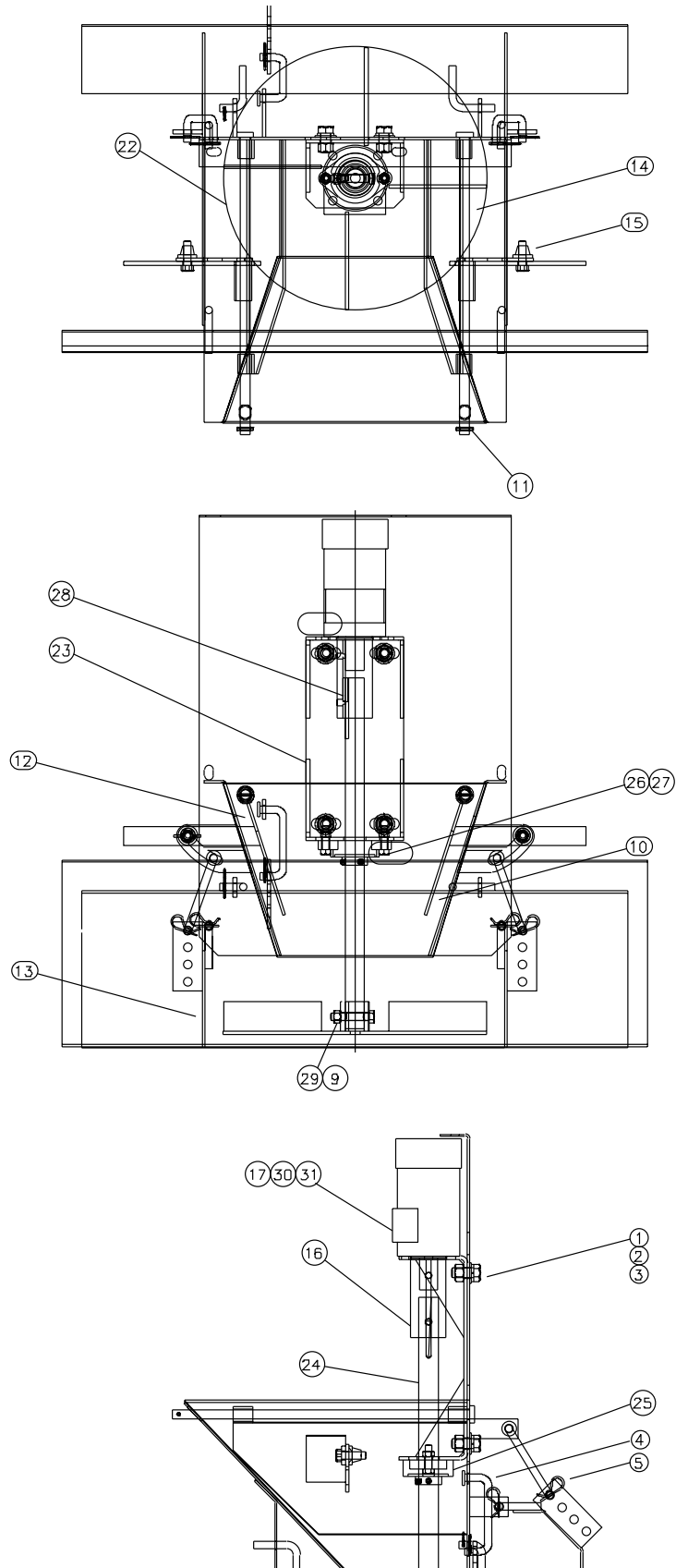
00038008-A, B, 6" EXTENSION KIT, 108X50X6

ITEM	QTY	PART #	DESCRIPTION
1	2	00034588-A	Extension Weldment, 6x108x50, MS
	2	00034588-B	Extension Weldment, 6x108x50, 304
2	20	05010618	Bolt, $\frac{5}{16}$ - 18 x 1, G8, HHCS, Zinc
	20	05016138	Bolt, $\frac{5}{16}$ - 18 x 1, HHCS, SST
3	20	05020265	Nut, $\frac{5}{16}$ - 18, G8, Hex, Zinc
	20	05020855	Nut, $\frac{5}{16}$ - 18, Hex, SST
4	2	00023106	Extension Panel, MS
	2	00023107	Extension Panel, 304 SST
5	20	05021364	Washer, $\frac{5}{16}$, Lock, Zinc
	20	05021407	Washer, $\frac{5}{16}$, Lock, SST

00012291-A, B, 6" EXTENSION KIT, 120X50X6

ITEM	QTY	PART #	DESCRIPTION
1	2	00034589-A	Extension Weldment, 6x120x50, MS
	2	00034589-B	Extension Weldment, 6x120x50, 304 SST
2	24	05010618	Bolt, $\frac{5}{16}$ - 18 x 1, G8, HHCS, Zinc
	24	05016138	Bolt, $\frac{5}{16}$ - 18 x 1, HHCS, SST
3	24	05020265	Nut, $\frac{5}{16}$ - 18, G8, Hex, Zinc
	24	05020855	Nut, $\frac{5}{16}$ - 18, Hex, SST
4	2	00023106	Extension Panel, MS
	2	00023107	Extension Panel, 304 SST
5	20	05021364	Washer, $\frac{5}{16}$, Lock, Zinc
	20	05021407	Washer, $\frac{5}{16}$, Lock, SST

HYDRAULIC SPINNER ASSEMBLY



00042731-A SPINNER ASSEMBLY, MILDSTEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05010689	Bolt, ½ - 13 x 1, HHCS, Zinc
2	4	05021309	Washer, ½, Flat, Zinc
3	4	05021367	Washer, ½, Lock, Zinc
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ⅜, Hair
6	1	00057308-A	Deflector, Rear, Weldment, MS
7	1	00057360-A	Deflector, Side, LH, Weldment, MS
8	1	00057582-A	Spinner Frame Weldment, MS
9	1	05020898	Nut, ⅜ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-A	Diverter, LH Flow, Weldment, MS
11	2	05022072	Pin, ⅝ ₃₂ x ⅞, Roll, Zinc
12	1	00057347-A	Diverter, RH Flow, Weldment, MS
13	1	00057359-A	Deflector, RH Side, Weldment, MS (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ⅜ - 16 (Not Shown)
16	1	05051201	Coupler, Shaft, 1" x 4"
17	1	05006673	Motor, Hydraulic, White, 3.2 CID, 1" Shaft (See pages 54-55)
18	1	00057257-A	Spinner Disk Weldment, MS (Shown in Dotted Line)
	1	05050064	Spinner Disc, MSPV, Poly (Shown in Dotted Line)
19	1	00057275-A	Bracket, Bearing Holder, Weldment, MS
20	1	00070495	Spinner Shaft
21	1	05030023	Bearing, 1" Bore, 2-Bolt (Not Shown) (See page 13)
22	2	05010619	Bolt, ⅝ ₁₆ - 18 x 1¼, HHCS, Zinc (Not Shown)
23	2	05020265	Nut, ⅝ ₁₆ - 18, G2, Zinc (Not Shown)
24	1	05050121	Key, ¼ x ¼ x 1½" (Not Shown)
25	1	05010647	Bolt, ⅜ - 16 x 2, HHCS, Zinc (Not Shown)
26	4	05010642	Bolt, ⅜ - 16 x ⅞, HHCS, Zinc (Not Shown)
27	2	05021364	Washer, ⅝ ₁₆ , Lock, Zinc (Not Shown)
28	1	00012698	Attachment Kit, Spinner, Hydraulic Kit (Not Shown) (See page 44)
29	4	05021365	Washer, ⅜, Lock, Zinc

00042731-B SPINNER ASSEMBLY, 304 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-B	Deflector, Rear, Weldment, 304
7	1	00057360-B	Deflector, Side, LH, Weldment, 304
8	1	00057582-B	Spinner Frame Weldment, 304
9	1	05020898	Nut, ¾ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-B	Diverter, LH Flow, Weldment, 304
11	2	05022072	Pin, ½ x ¾, Roll, Zinc
12	1	00057347-B	Diverter, RH Flow, Weldment, 304
13	1	00057359-B	Deflector, RH Side, Weldment, 304 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15/16, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16 (Not Shown)
16	1	05051201	Coupler, Shaft, 1" x 4"
17	1	05006673	Motor, Hydraulic, White, 3.2 CID, 1" Shaft (See pages 54-55)
18	1	00057257-B	Spinner Disk Weldment, 304 (Shown in Dotted Line)
	1	05050064	Spinner Disc, MSPV, Poly (Shown in Dotted Line)
19	1	00057275-B	Bracket, Bearing Holder, Weldment, 304
20	1	00070495	Spinner Shaft
21	1	05030023	Bearing, 1" Bore, 2-Bolt (Not Shown) (See page 13)
22	2	05016139	Bolt, ⅝ - 18 x 1¼, HHCS, SST (Not Shown)
23	2	05020855	Nut, ⅝ - 18, Hex, SST (Not Shown)
24	1	05050121	Key, ¼ x ¼ x 1½" (Not Shown)
25	1	05010647	Bolt, ¾ - 16 x 2, HHCS, SST(Not Shown)
26	4	05016050	Bolt, ¾ - 16 x ¾, HHCS, SST
27	4	05021407	Washer, ⅝, Lock, SST (Not Shown)
28	1	00012698	Attachment Kit, Spinner, Hydraulic Kit (Not Shown) (See page 44)
29	4	05021392	Washer, ¾, Lock, SST

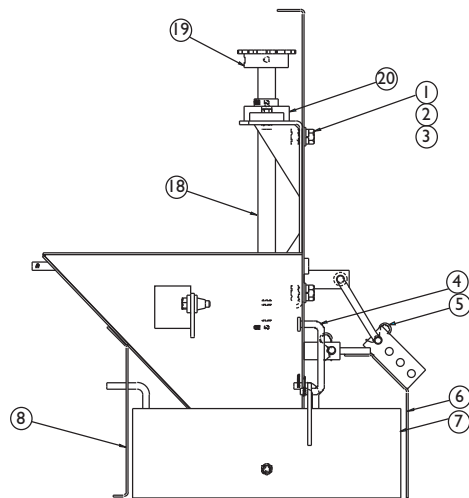
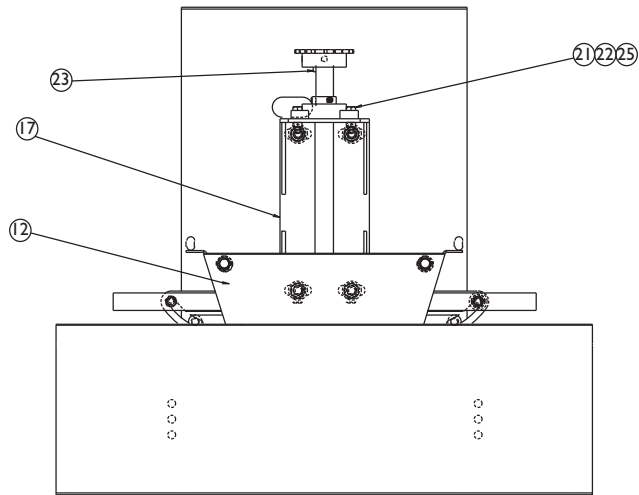
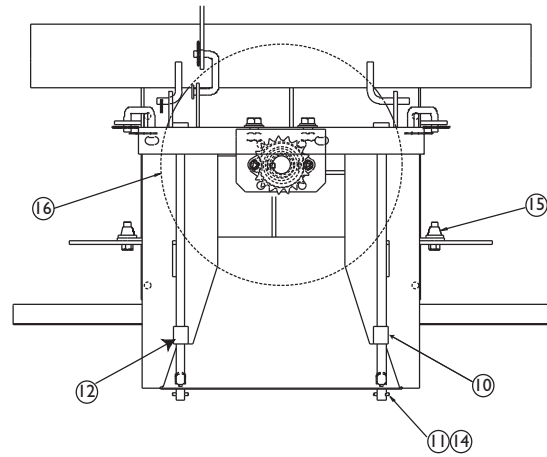
**See page 26 for drawing*

00042731-C SPINNER ASSEMBLY, 409 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-C	Deflector, Rear, Weldment, 409
7	1	00057360-C	Deflector, Side, LH, Weldment, 109
8	1	00057582-C	Spinner Frame Weldment, 409
9	1	05020891	Nut, ¾ - 16, Nylon Lock, SST (Not Shown)
10	1	00057348-C	Diverter, LH Flow, Weldment, 409
11	2	05022072	Pin, ½ x ¾, Roll, Zinc
12	1	00057347-C	Diverter, RH Flow, Weldment, 409
13	1	00057359-C	Deflector, RH Side, Weldment, 409 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16 (Not Shown)
16	1	05051201	Coupler, Shaft, 1" x 4"
17	1	05006673	Motor, Hydraulic, White, 3.2 CID, 1" Shaft (See pages 54-55)
18	1	00057257-C	Spinner Disk Weldment, 304 (Shown in Dotted Line)
	1	0505064	Spinner Disc, MSPV, Poly (Shown in Dotted Line)
19	1	00057275-C	Bracket, Bearing Holder, Weldment, 409
20	1	00070495	Spinner Shaft
21	1	05030023	Bearing, 1" Bore, 2-Bolt (Not Shown) (See page 13)
22	2	05016139	Bolt, ⅝ - 18 x 1¼, HHCS, SST (Not Shown)
23	2	05020855	Nut, ⅝ - 18, Hex, SST (Not Shown)
24	1	05050121	Key, ¼ x ¼ x 1½" (Not Shown)
25	1	05010647	Bolt, ¾ - 16 x 2, HHCS, SST (Not Shown)
26	4	05016050	Bolt, ¾ - 16 x ¾, HHCS, SST
27	4	05021365	Washer, ⅝, Lock, SST
28	1	00012698	Attachment Kit, Spinner, Hydraulic Kit (Not Shown) (See page 44)
29	4	05021392	Washer, ¾, Lock, SST

*See page 26 for drawing

SPINNER ASSEMBLY, CHAIN BOLT ON



00057260-A SPINNER ASSEMBLY, CHAIN BOLT ON, MS

ITEM	QTY	PART #	DESCRIPTION
1	4	05010689	Bolt, ½ - 13 x 1, HHCS, Zinc
2	4	05021309	Washer, ½, Flat, Zinc
3	4	05021367	Washer, ½, Lock, Zinc
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-A	Deflector, Rear, Weldment, MS
7	1	00057360-A	Deflector, Side, LH, Weldment, MS
8	1	00057582-A	Spinner Frame Weldment, MS
9	1	05020898	Nut, ¾ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-A	Diverter, LH Flow, Weldment, MS
11	2	05022072	Pin, ½ x ¾, Roll, Zinc
12	1	00057347-A	Diverter, RH Flow, Weldment, MS
13	1	00057359-A	Deflector, RH Side, Weldment, MS (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16
16	1	00057257-A	Spinner Disk Weldment, MS (Shown in Dotted Line)
	1	05050064	Spinner Disc, MSPV, Poly (Shown in Dotted Line)
17	1	00057275-A	Bracket, Bearing Holder, Weldment, MS
18	1	00057269	Spinner Shaft
19	1	05033007	Sprocket, 14B19F x 1¼" Keyway
20	2	05030023	Bearing, 1" Bore, 2-Bolt (See page 13)
21	4	05010619	Bolt, ⅝ - 18 x 1¼, HHCS, Zinc
22	4	05020001	Nut, ⅝ - 18, Hex, MS
23	1	05050121	Key, ¼ x ¼ x 1½"
24	1	05010647	Bolt, ¾ - 16 x 2, HHCS, Zinc (Not Shown)
25	4	05021364	Washer, ⅝, Lock, Zinc
26	1	00057496	Attachment Kit, Spinner, Chain Drive Kit (Not Shown) (See page 44)

00057260-B SPINNER ASSEMBLY,CHAIN BOLT ON, 304 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ⅜, Hair
6	1	00057308-B	Deflector, Rear, Weldment, 304
7	1	00057360-B	Deflector, Side, LH, Weldment, 304
8	1	00057582-B	Spinner Frame Weldment, 304
9	1	05020891	Nut, ⅜ - 16, Nylon Lock, SST (Not Shown)
10	1	00057348-B	Diverter, LH Flow, Weldment, 304
11	2	05022072	Pin, ⅝ x ⅞, Roll, Zinc
12	1	00057347-B	Diverter, RH Flow, Weldment, 304
13	1	00057359-B	Deflector, RH Side, Weldment, 304 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15/16, Plated
15	2	05050574	Knob, Plastic Star Grip, ⅜ - 16
16	1	00057257-B	Spinner Disk Weldment, 304 (Shown in Dotted Line)
	1	05050064	Spinner Disc, MSPV, Poly (Shown in Dotted Line)
17	1	00057275-B	Bracket, Bearing Holder, Weldment, 304
18	1	00057269	Spinner Shaft
19	1	05033007	Sprocket, 1¼" Keyway
20	2	05030023	Bearing, 1" Bore, 2-Bolt (See page 13)
21	4	05016139	Bolt, ⅝ - 18 x 1¼, HHCS, SST
22	4	05020855	Nut, ⅝ - 18, Hex, SST
23	1	05050121	Key, ¼ x ¼ x 1½"
24	1	05010647	Bolt, ⅜ - 16 x 2, HHCS, Zinc (Not Shown)
25	4	05021407	Washer, ⅝, Lock, SST
26	1	00057496	Attachment Kit, Spinner, Chain Drive (Not Shown) (See page 44)

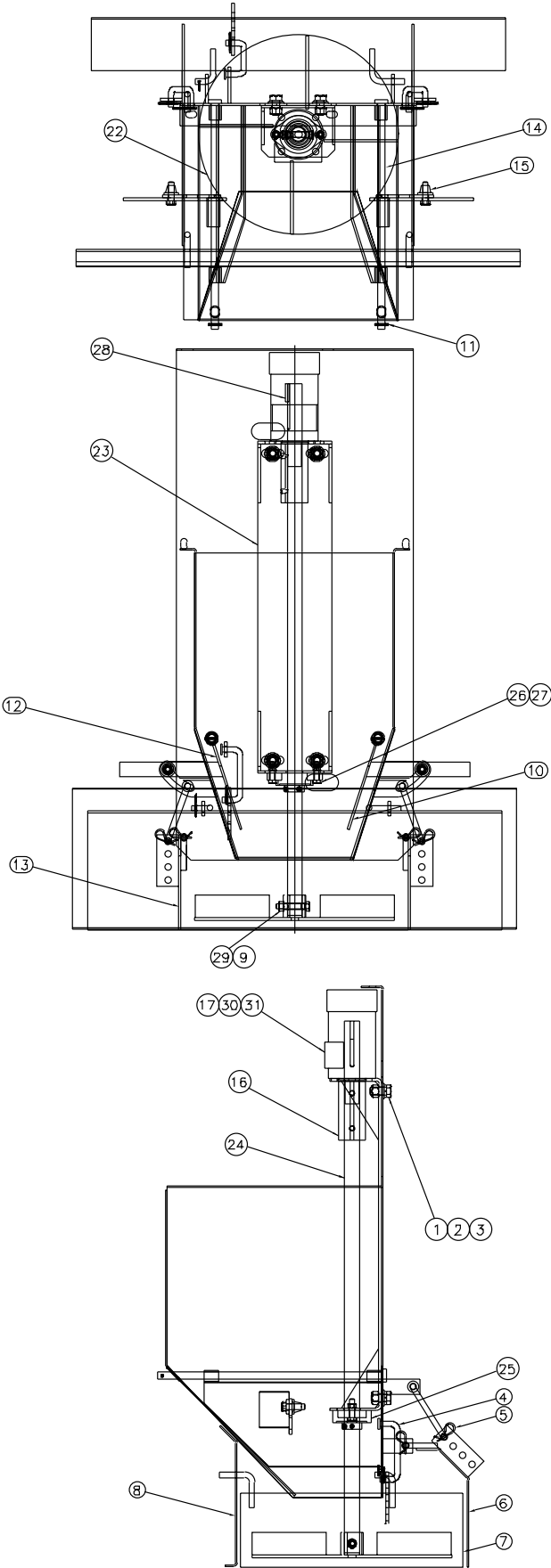
**See page 30 for drawing.*

00057260-C SPINNER ASSEMBLY, CHAIN BOLT ON, 409 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ⅜, Hair
6	1	00057308-C	Deflector, Rear, Weldment, 409
7	1	00057360-C	Deflector, Side, LH, Weldment, 409
8	1	00057582-C	Spinner Frame Weldment, 409
9	1	05020891	Nut, ⅝ - 16, Nylon Lock, SST (Not Shown)
10	1	00057348-C	Diverter, LH Flow, Weldment, 409
11	2	05022072	Pin, ⅝ x ⅞, Roll, Zinc
12	1	00057347-C	Diverter, RH Flow, Weldment, 409
13	1	00057359-C	Deflector, RH Side, Weldment, 409 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ⅝ - 16
16	1	00057257-C	Spinner Disk Weldment, 304 (Shown in Dotted Line)
	1	05050064	Spinner Disc, MSPV, Poly (Shown in Dotted Line)
17	1	00057275-C	Bracket, Bearing Holder, Weldment, 409
18	1	00057269	Spinner Shaft
19	1	05033007	Sprocket, 1¼" Keyway
20	4	05030023	Bearing, 1" Bore, 2-Bolt (See page 13)
21	4	05016139	Bolt, ⅝ - 18 x 1¼, HHCS, SST
22	4	05020855	Nut, ⅝ - 18, Hex, SST
23	1	05050121	Key, ¼ x ¼ x 1½"
24	1	05010647	Bolt, ⅝ - 16 x 2, HHCS, Zinc (Not Shown)
25	4	05021407	Washer, ⅝, Lock, SST

**See page 30 for drawing.*

EXTENDED HYDRAULIC SPINNER ASSEMBLY



00042732-A SPINNER ASSEMBLY, EXTENDED, MILDSTEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05010689	Bolt, ½ - 13 x 1, G8, HHCS, Zinc
2	4	05021309	Washer, ½, Flat, Zinc
3	4	05021367	Washer, ½, Lock, Zinc
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-A	Deflector, Rear, Weldment, MS
7	1	00057360-A	Deflector, Side, LH, Weldment, MS
8	1	00057585-A	Spinner Frame Weldment, Ext MS
9	1	05020898	Nut, ¾ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-A	Diverter, LH Flow, Weldment, MS
11	2	05022072	Pin, ½ x ¾, Roll, Zinc
12	1	00057347-A	Diverter, RH Flow, Weldment, MS
13	1	00057359-A	Deflector, RH Side, Weldment, MS (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16
16	1	05051201	Coupler, Shaft, 1" x 4"
17	1	05006673	Motor, Hydraulic, White, 3.2 CID, 1" Shaft (See pages 54-55)
18	1	00057257-A	Spinner Disk Weldment, MS
	1	05050064	Spinner Disc, MSPV, Poly
19	1	00057284-A	Shaft Mounting Weldment, 304
20	1	00059548	Spinner Shaft, Modified, Ext, Hydraulic
21	1	05030023	Bearing, 1" Bore, 2-Bolt (Not Shown) (See page 13)
22	2	05010619	Bolt, ⅝ - 18 x 1¼, G8, HHCS, ZINC (Not Shown)
23	2	05020265	Nut, ⅝ - 18, Hex, Zinc (Not Shown)
24	1	05050121	Key, ¼ x ¼ x 1½"
25	1	05010647	Bolt, ¾ - 16 x 2¼, G8, HHCS, Zinc (Not Shown)
26	4	05010642	Bolt, ¾ - 16 x ¾, G8, HHCS, Zinc
27	4	05021365	Washer, ¾, Lock, Zinc
28	1	00012698	Attachment Kit, Spinner, Hydraulic Kit (Not Shown) (See page 44)
29	2	05021364	Washer, ⅝, Lock, Zinc (Not Shown)

00042732-B SPINNER ASSEMBLY, EXTENDED, 304 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ⅜, Hair
6	1	00057308-B	Deflector, Rear, Weldment, 304
7	1	00057360-B	Deflector, Side, LH, Weldment, 304
8	1	00057585-B	Spinner Frame Weldment, Ext 304
9	1	05020891	Nut, ⅜ - 16, Nylon Lock, SST (Not Shown)
10	1	00057348-B	Diverter, LH Flow, Weldment, 304
11	2	05022072	Pin, ⅝ x ⅞, Roll, Zinc
12	1	00057347-B	Diverter, RH Flow, Weldment, 304
13	1	00057359-B	Deflector, RH Side, Weldment, 304 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ⅜ - 16
16	1	05051201	Coupler, Shaft, 1" x 4"
17	1	05006673	Motor, Hydraulic, White, 3.2 CID, 1" Shaft (See pages 54-55)
18	1	00057257-B	Spinner Disk Weldment, 304
	1	05050064	Spinner Disc, MSPV, Poly
19	1	00057284-B	Shaft Mounting Weldment, 304
20	1	00059548	Spinner Shaft, Modified, Ext, Hydraulic
21	1	05030023	Bearing, 1" Bore, 2-Bolt (Not Shown) (See page 13)
22	2	05016139	Bolt, ⅝ - 18 x 1¼, HHCS, SST (Not Shown)
23	2	05020855	Nut, ⅝ - 18, Hex, SST (Not Shown)
24	1	05050121	Key, ¼ x ¼ x 1½"
25	1	05010647	Bolt, ⅜ - 16 x 2¼, HHCS, Zinc (Not Shown)
26	4	05016050	Bolt, ⅜ - 16 x ⅞, HHCS, SST
27	4	05021392	Washer, ⅜, Lock, SST
28	1	00012698	Attachment Kit, Spinner, Hydraulic Kit (Not Shown) (See page 44)
29	2	05021407	Washer, ⅝, Lock, SST

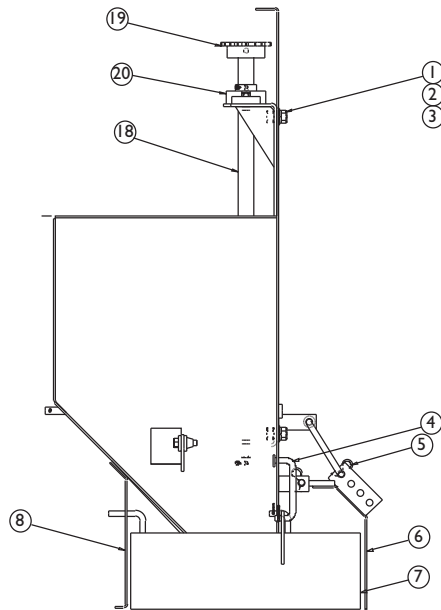
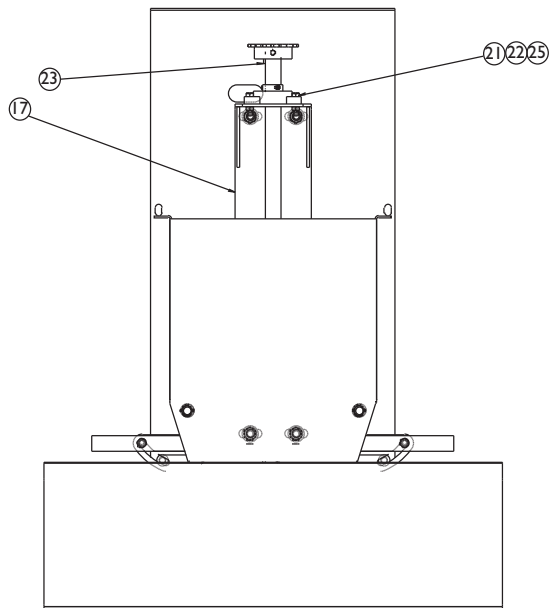
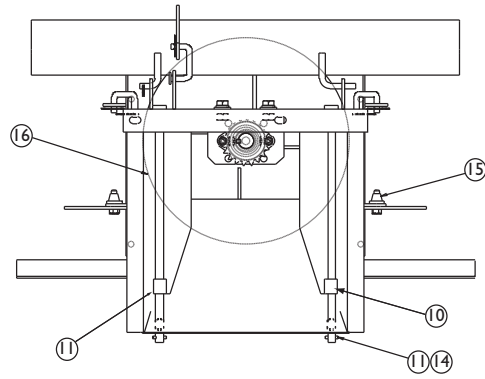
**See page 34 for drawing.*

00042732-C SPINNER ASSEMBLY, EXTENDED, 409 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-C	Deflector, Rear, Weldment, 409
7	1	00057360-C	Deflector, Side, LH, Weldment, 409
8	1	00057585-C	Spinner Frame Weldment, Ext 409
9	1	05020891	Nut, ¾ - 16, Nylon Lock, SST (Not Shown)
10	1	00057348-C	Diverter, LH Flow, Weldment, 409
11	2	05022072	Pin, ⅝ ₂ x ⅞, Roll, Zinc
12	1	00057347-C	Diverter, RH Flow, Weldment, 409
13	1	00057359-C	Deflector, RH Side, Weldment, 409 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16
16	1	05051201	Coupler, Shaft, 1" x 4"
17	1	05006673	Motor, Hydraulic, White, 3.2 CID, 1" Shaft (See pages 54-55)
18	1	00057257-C	Spinner Disk Weldment, 409
	1	05050064	Spinner Disc, MSPV, Poly
19	1	00057284-C	Shaft Mounting Weldment, 409
20	1	00059548	Spinner Shaft, Modified, Ext, Hydraulic
21	1	05030023	Bearing, 1" Bore, 2-Bolt (Not Shown) (See page 13)
22	2	05016139	Bolt, ⅝ ₆ - 18 x 1¼, HHCS, SST (Not Shown)
23	2	05020855	Nut, ⅝ ₆ - 18, Hex, SST (Not Shown)
24	1	05050121	Key, ¼ x ¼ x 1½"
25	1	05010647	Bolt, ⅝ - 16 x 2, HHCS, SST (Not Shown)
26	4	05016050	Bolt, ⅝ - 16 x ⅞, HHCS, SST
27	4	05021392	Washer, ⅝, Lock, SST
28	1	00012698	Attachment Kit, Spinner, Hydraulic Kit (Not Shown) (See page 44)
29	2	05021407	Washer, ⅝ ₆ , Lock, SST

**See page 37 for drawing.*

EXTENDED SPINNER ASSEMBLY, CHAIN BOLT ON



00057535-A EXTENDED SPINNER ASSEMBLY, CHAIN BOLT ON, MS

ITEM	QTY	PART #	DESCRIPTION
1	4	05010689	Bolt, ½ - 13 x 1, HHCS, Zinc
2	4	05021309	Washer, ½, Flat, Zinc
3	4	05021367	Washer, ½, Lock, Zinc
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-A	Deflector, Rear, Weldment, MS
7	1	00057360-A	Deflector, Side, LH, Weldment, MS
8	1	00057585-A	Spinner Frame Weldment, Ext, MS
9	1	05020898	Nut, ¾ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-A	Diverter, LH Flow, Weldment, MS
11	2	05022072	Pin, ½ x ¾, Roll, Zinc
12	1	00057347-A	Diverter, RH Flow, Weldment, MS
13	1	00057359-A	Deflector, RH Side, Weldment, MS (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16
16	1	00057257-A	Spinner Disk Weldment, MS
	1	05050064	Spinner Disc, MSPV, Poly
17	1	00057284-A	Shaft Mount Weldment, Spinner, MS
18	1	00057272	Spinner Shaft, Ext
19	1	05033007	Sprocket, 14B19F x 1¼" Keyway
20	2	05030023	Bearing, 1" Bore, 2-Bolt (See page 13)
21	4	05010619	Bolt, ⅝ - 18 x 1¼, HHCS, Zinc (Not Shown)
22	4	05020265	Nut, ⅝ - 18, Hex, MS (Not Shown)
23	1	05050121	Key, ¼ x ¼ x 1½" (Not Shown)
24	1	05010647	Bolt, ¾ - 16 x 2, HHCS, Zinc (Not Shown)
25	4	05021364	Washer, ⅝, Lock, Zinc
26	1	00057496	Attachment Kit, Spinner, Chain Drive Kit (Not Shown) (See page 44)

00057535-B EXTENDED SPINNER ASSEMBLY,CHAIN BOLT ON, 304 STAINLESS STEEL

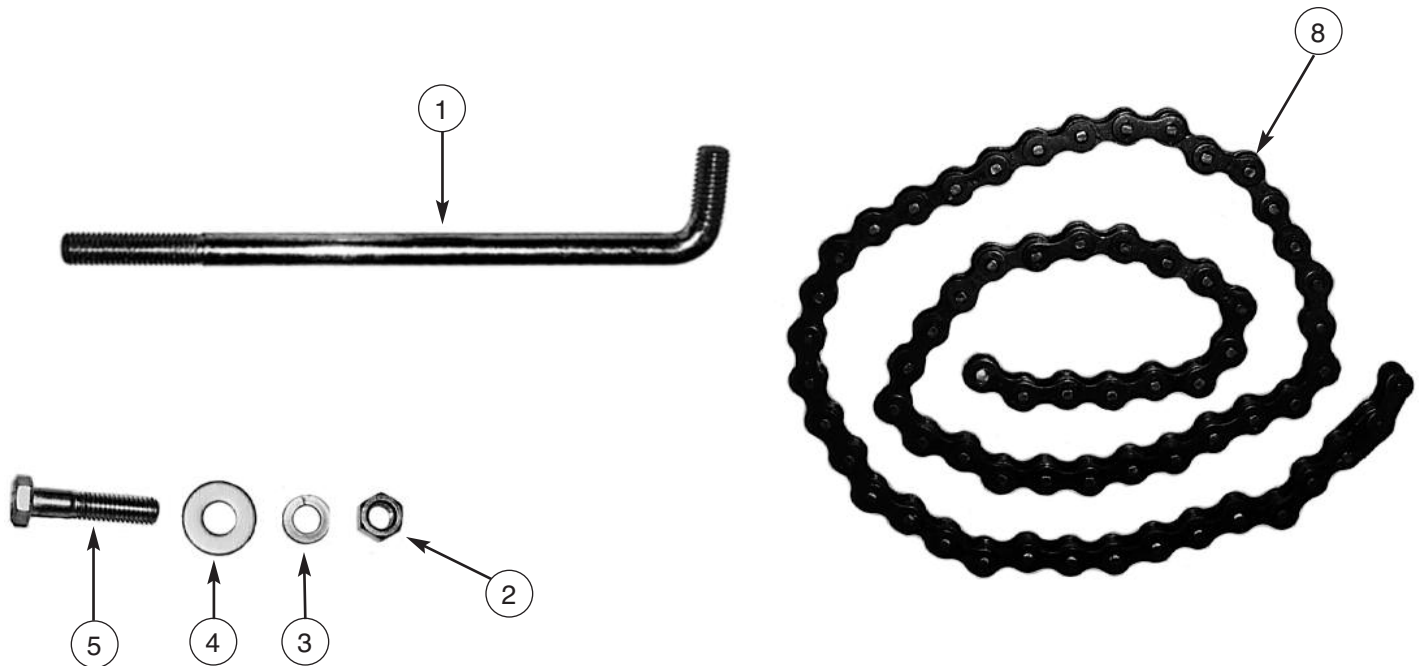
ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-B	Deflector, Rear, Weldment, 304
7	1	00057360-B	Deflector, Side, LH, Weldment, 304
8	1	00057585-B	Spinner Frame Weldment, Ext, 304
9	1	05020898	Nut, ¾ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-B	Diverter, LH Flow, Weldment, 304
11	2	05022072	Pin, ½ x ⅞, Roll, Zinc
12	1	00057347-B	Diverter, RH Flow, Weldment, 304
13	1	00057359-B	Deflector, RH Side, Weldment, 304 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15/16, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16
16	1	00057257-B	Spinner Disk Weldment, 304
	1	05050064	Spinner Disc, MSPV, Poly
17	1	00057284-B	Shaft, Mount Weldment, 304
18	1	00057272	Spinner Shaft, Ext
19	1	05033007	Sprocket, 1¼" Keyway
20	2	05030023	Bearing, 1" Bore, 2-Bolt (See page 13)
21	4	05016139	Bolt, ⅝ - 18 x 1¼, G8, HHCS, SST (Not Shown)
22	4	05020855	Nut, ⅝ - 18, Hex, SST (Not Shown)
23	1	05050121	Key, ¼ x ¼ x 1½" (Not Shown)
24	1	05010647	Bolt, ¾ - 16 x 2, HHCS, Zinc (Not Shown)
25	4	05021407	Washer, ⅝, Lock, SST
26	1	00057496	Attachment Kit, Spinner, Chain Drive (Not Shown) (See page 44)

See page 38 for drawing

00057535-C EXTENDED SPINNER ASSEMBLY, CHAIN BOLT ON, 409 STAINLESS STEEL

ITEM	QTY	PART #	DESCRIPTION
1	4	05016047	Bolt, ½ - 13 x 1, HHCS, SST
2	4	05021391	Washer, ½, Flat, SST
3	4	05021396	Washer, ½, Lock, SST
4	3	05051225	Arm, Adjuster Link for New-Style
5	6	05022045	Pin, .0725 x 1.562 x ¾, Hair
6	1	00057308-C	Deflector, Rear, Weldment, 409
7	1	00057360-C	Deflector, Side, LH, Weldment, 109
8	1	00057585-C	Spinner Frame Weldment, Ext, 409
9	1	05020898	Nut, ¾ - 16, Top Lock, C&W (Not Shown)
10	1	00057348-C	Diverter, LH Flow, Weldment, 409
11	2	05022072	Pin, ½ x ¾, Roll, Zinc
12	1	00057347-C	Diverter, RH Flow, Weldment, 409
13	1	00057359-C	Deflector, RH Side, Weldment, 409 (Not Shown)
14	2	05050122	Pin, Pivot, ½ DIA x 15¼, Plated
15	2	05050574	Knob, Plastic Star Grip, ¾ - 16
16	1	00057257-C	Spinner Disk Weldment, 304
	1	05050064	Spinner Disc, MSPV, Poly
17	1	00057284-C	Shaft Mount Weldment, Ext, 409
18	1	00057272	Spinner Shaft, Ext
19	1	05033007	Sprocket, 1¼" Keyway
20	2	05030023	Bearing, 1" Bore, 2-Bolt (See page 13)
21	4	05016139	Bolt, ⅝ - 18 x 1¼, G8, HHCS, SST (Not Shown)
22	4	05020855	Nut, ⅝ - 18, Hex, SST (Not Shown)
23	1	05050121	Key, ¼ x ¼ x 1½" (Not Shown)
24	1	05010647	Bolt, ¾ - 16 x2, G8, HHCS, Zinc (Not Shown)
25	4	05021407	Washer, ⅝, Lock, SST

See page 38 for drawing

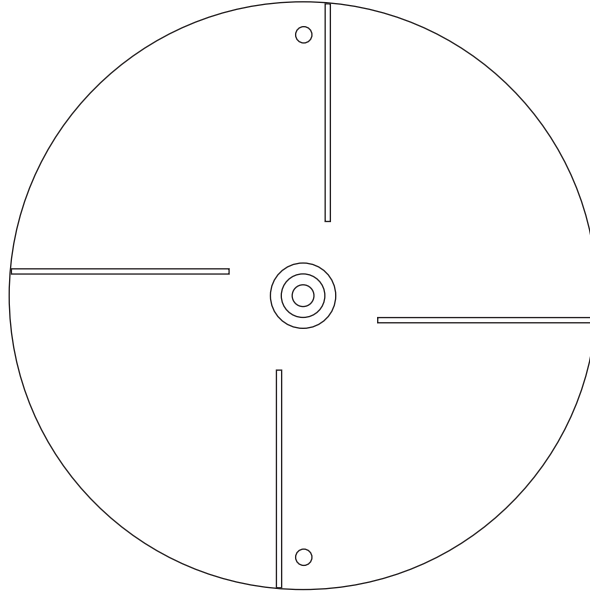


00057496 ATTACHMENT KIT, HYDRAULIC DRIVE, SPINNER

ITEM	QTY	PART #	DESCRIPTION
1	2	05051069	Rod, 3/8 - 16 x 8½, 90° Bend
2	4	05020266	Nut, 3/8 - 16, G8, Hex, Zinc
3	4	05021365	Washer, 3/8, Lock, Zinc
4	8	05021307	Washer, 3/8, Flat, Zinc
5	2	05010643	Bolt, 3/8 - 16 x 1, G8, HHCS, Zinc
6	2	05020898	Nut, 3/8 - 16, Top Lock, C&W, GR C
7	1	05051142	Connector Link, #41
8	1	05036054	Chain, Roller #41 Pitch w/ Connector Link

00012698 ATTACHMENT KIT, MOTOR DRIVE, SPINNER

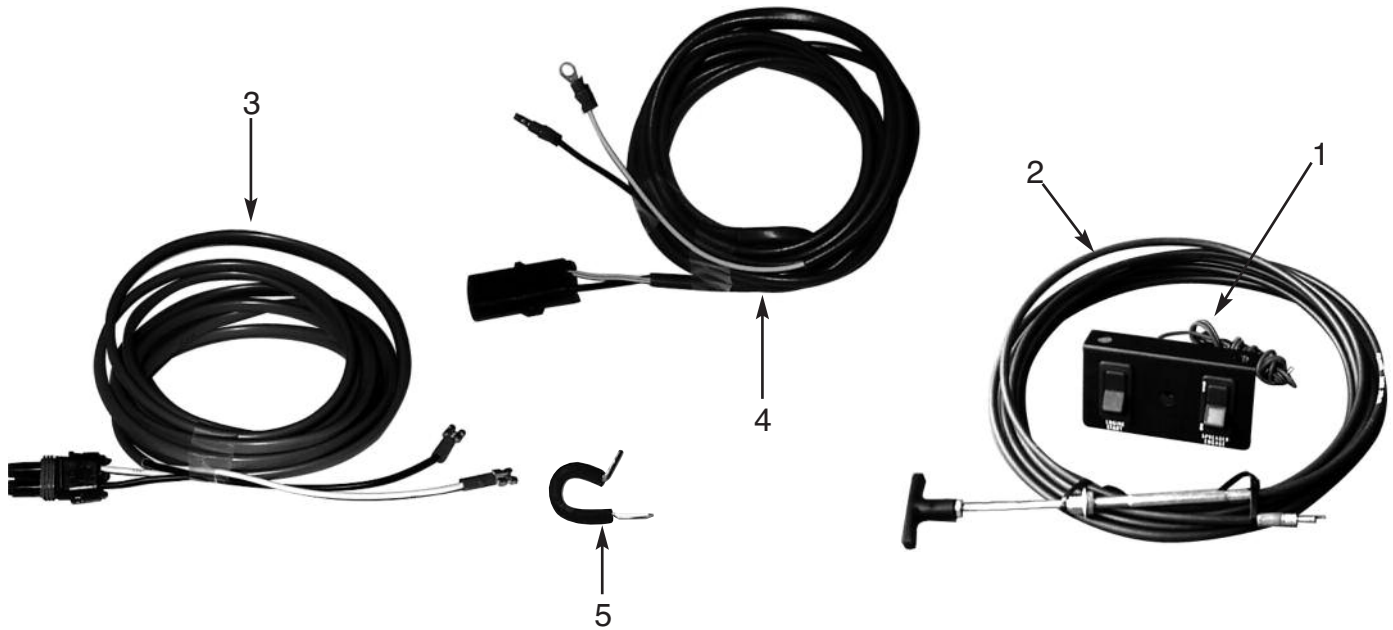
ITEM	QTY	PART #	DESCRIPTION
1	2	05051069	Rod, 3/8 - 16 x 8½, 90° Bend
2	4	05020266	Nut, 3/8 - 16, G8, Hex, Zinc
3	4	05021365	Washer, 3/8, Lock, Zinc
4	8	05021307	Washer, 3/8, Flat, Zinc
5	2	05010643	Bolt, 3/8 - 16 x 1, G8, HHCS, Zinc
6	2	05020898	Nut, 3/8 - 16, Top Lock, C&W, GR C



SPINNER DISK ASSEMBLY

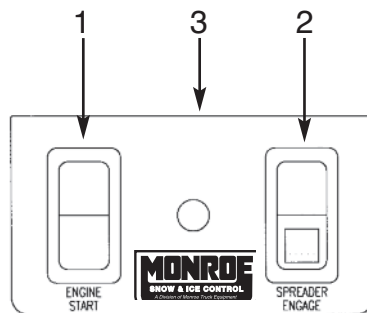
ITEM	QTY	PART #	DESCRIPTION
1	1	00057257-A	Spinner Disk Weldment, MS
	1	00057257-B	Spinner Disk Weldment, 304 SST
	1	00057257-C	Spinner Disk Weldment, 409 SST
	1	05050064	Spinner Disk Weldment, Poly
2	1	05010647	Bolt, $\frac{3}{8}$ - 16 x 2, HHCS, Zinc
3	1	05020898	Nut, $\frac{3}{8}$ - 16, Top Lock, C&W

00057467 MANUAL THROTTLE CONTROL KIT



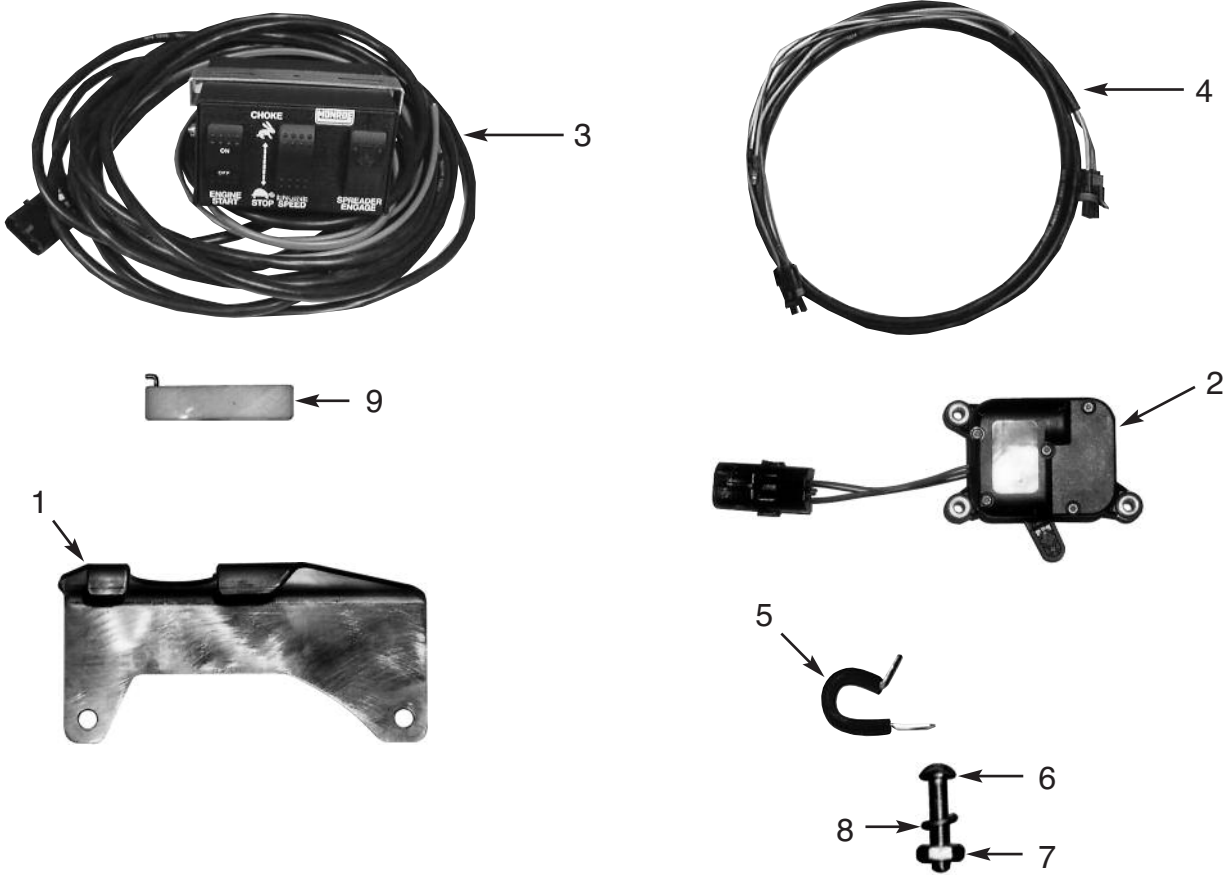
ITEM	QTY	PART #	DESCRIPTION
1	1	05051276	Control Panel, Manual, PV, with wires and (2) switches
2	1	05051177	Cable Assy., Throttle Control, Manual, with Handle, PV, 20'
3	1	05051222	Wiring Harness, 120" (Attached to Control Panel)
4	1	05041013	Wiring Harness, 120" (Attached to Spreader)
5	8	05050150	Clamp, 1/4", Cushioned Metal
6	1	00057496	Spinner Attaching Group (Not Shown. See page 42 for parts)

05051276 MANUAL CONTROL PANEL PARTS



ITEM	QTY	PART #	DESCRIPTION
1	1	05041061	Switch, Starter
2	1	05041062	Switch, Spreader Engage
3	1	05051220	Plate, Instrument Panel

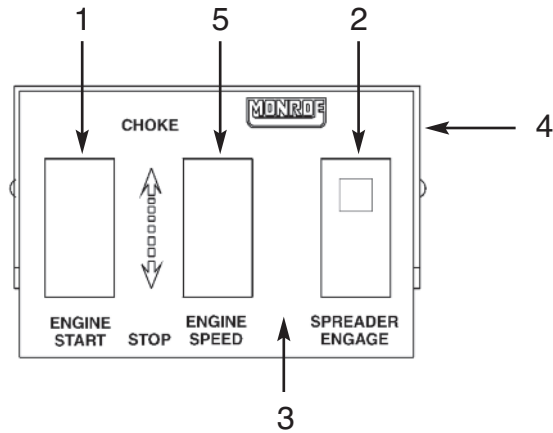
00011708 STANDARD ELECTRIC THROTTLE CONTROL KIT



ITEM	QTY	PART #	DESCRIPTION
1	1	00024328	Bracket, Electric Throttle Control, New Style
2	1	05050245	Throttle Motor, 12 VDC, Electric Throttle Control, New Style
3	1	05041238	Panel, Standard Electric Throttle, Power Cord & 30' Harness
4	1	05041240	Harness, 88" OAL, 4-wire (Spreader Portion)
5	5	05050151	Clamp, 3/8", #6, Cushioned Metal
6	3	05016949	Screw, #6-32 x 5/8", Machine, Slotted Round, Stainless Steel
7	3	05020966	Nut, #6 18-8, Hex Machine, Stainless Steel
8	3	05021411	Washer, #6 18-8, Lock, Stainless Steel
9	1	05050246	Throttle Block, UHMW, with Pin, Electric Throttle Control
10	1	05050686	Tie Strap, 8" (Not Shown)
11	1	00057496	Spinner Attaching Group (Not Shown. See page 42 for parts)
*12	1	05041279	Throttle Control Kit, Field Conversion to Standard Electric (Not Shown)

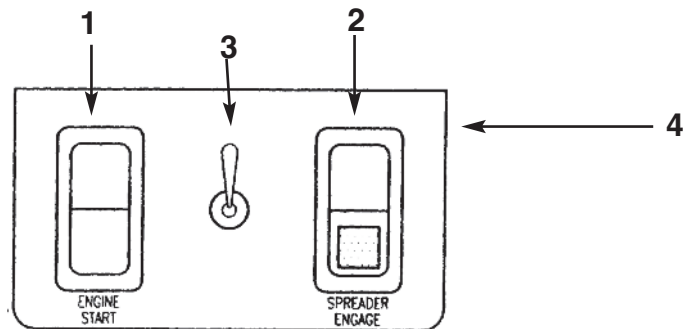
* Item 12 contains items 1-5, 9

05041238 ELECTRIC CONTROL PANEL



ITEM	QTY	PART #	DESCRIPTION
1	1	05041100	Switch, Starter
2	1	05041103	Switch, Spreader Engage
3	1	05041277	Plate, Electric Throttle Control
4	1	05041278	Bracket, Mounting
5	1	05041102	Switch, Throttle

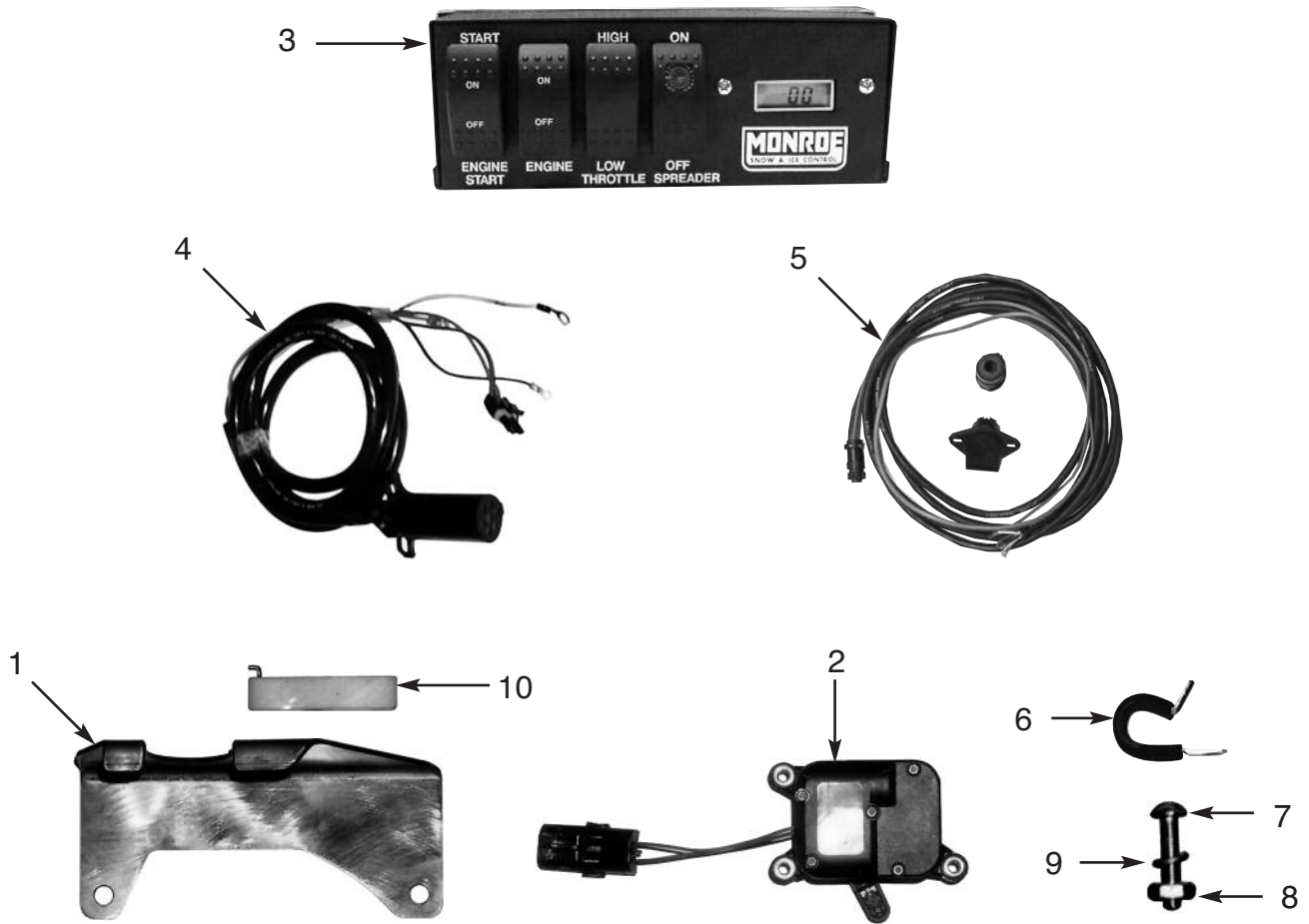
ELECTRIC CONTROL PANEL



ITEM	QTY	PART #	DESCRIPTION
*1	1	05041061	Switch, Starter, Man./Elec. Panel, PV
*2	1	05041062	Switch, Spreader Engage, Man./Elec. Panel, PV
3	1	05041089	Switch, Toggle, Electric Panel, PV
*4	1	05051220	Panel, Man./Elec., PV

* Items can be ordered as an Assembly. Part Number: 05051276 Panel Assembly, 2 Switch

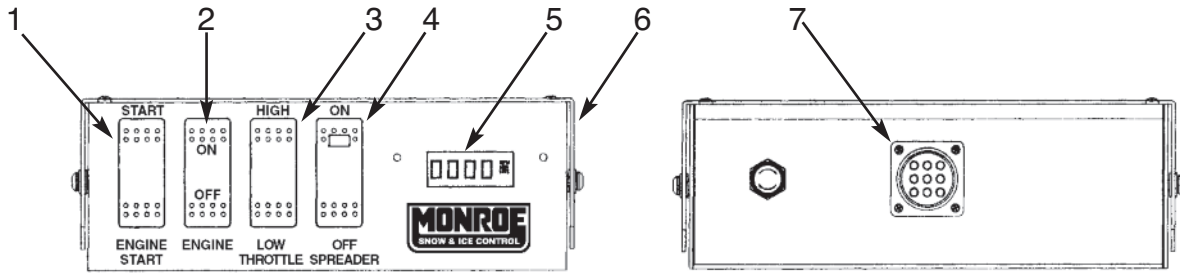
00011709 NEW STYLE DELUXE ELECTRIC THROTTLE CONTROL KIT



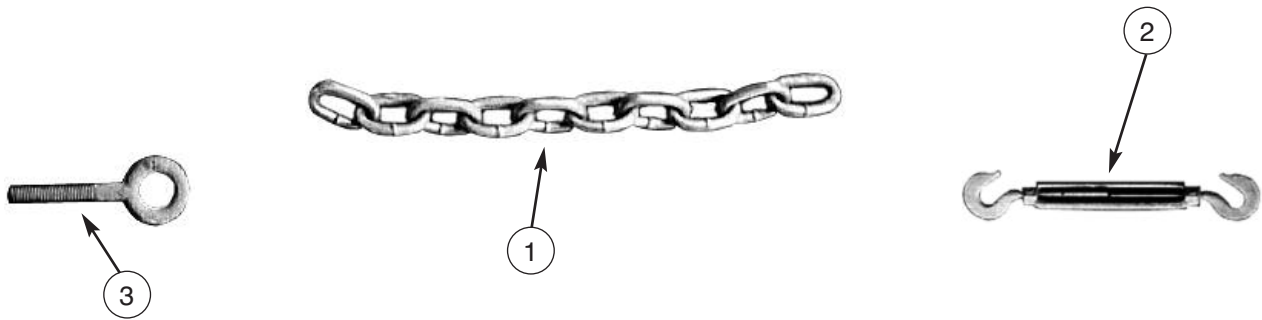
ITEM	QTY	PART #	DESCRIPTION
1	1	00024328	Bracket, Electric Throttle Control, New Style
2	1	05050245	Throttle Motor, 12 VDC, Electric Throttle Control, New Style
3	1	05041233	Panel, Deluxe Throttle
*4	1	05041259	Harness, 7' OAL, V-Box Portion
*5	1	05041260	Harness, 17' OAL, Truck Portion
6	3	05050164	Clamp, ½", #8, Cushioned Metal
7	3	05016949	Screw, #6-32 x ¾", Machine, Slotted Round, Stainless Steel
8	3	05020966	Nut, #6 18-8, Hex Machine, Stainless Steel
9	3	05021411	Washer, #6 18-8, Lock, Stainless Steel
10	1	05050246	Throttle Block, UHMW, with Pin, Electric Throttle Control
11	1	05050686	Tie Strap, 8" (Not Shown)
12	1	00057496	Spinner Attaching Group (Not Shown. See page 42 for parts)

**Items number 4 & 5 can be purchased together using the part number 05041234*

DELUXE CONTROL PANEL



ITEM	QTY	PART #	DESCRIPTION
1	1	05041100	Switch, Starter
2	1	05041101	Switch, On/Off
3	1	05041102	Switch, Throttle
4	1	05041103	Switch, Spreader Engage
5	1	05041104	Tachometer
6	1	05041105	Bracket, Mounting
7	1	05041106	Receptacle, 7-Pole



00057595 TURNBUCKLE MOUNTING KIT

ITEM	QTY	PART #	DESCRIPTION
1	4	05036106	Chain, 1/4" High Test, 12" OAL
2	4	05051060	Turnbuckle, 3/8" x 6"
3	4	05051062	Eye Bolt, 3/8" - 16 x 2 1/2, 120 Style
4	8	05020266	Nut, 3/8" - 16, G8, Hex, Zinc
5	16	05021307	Washer, 3/8", Flat, Zinc
6	4	05020898	Nut, 3/8" - 16, Top Lock, C&W
7	4	05021365	Washer, 3/8", Lock, Zinc
8	4	05010643	Bolt, 3/8" - 16 x 1, G8, HHCS, Zinc

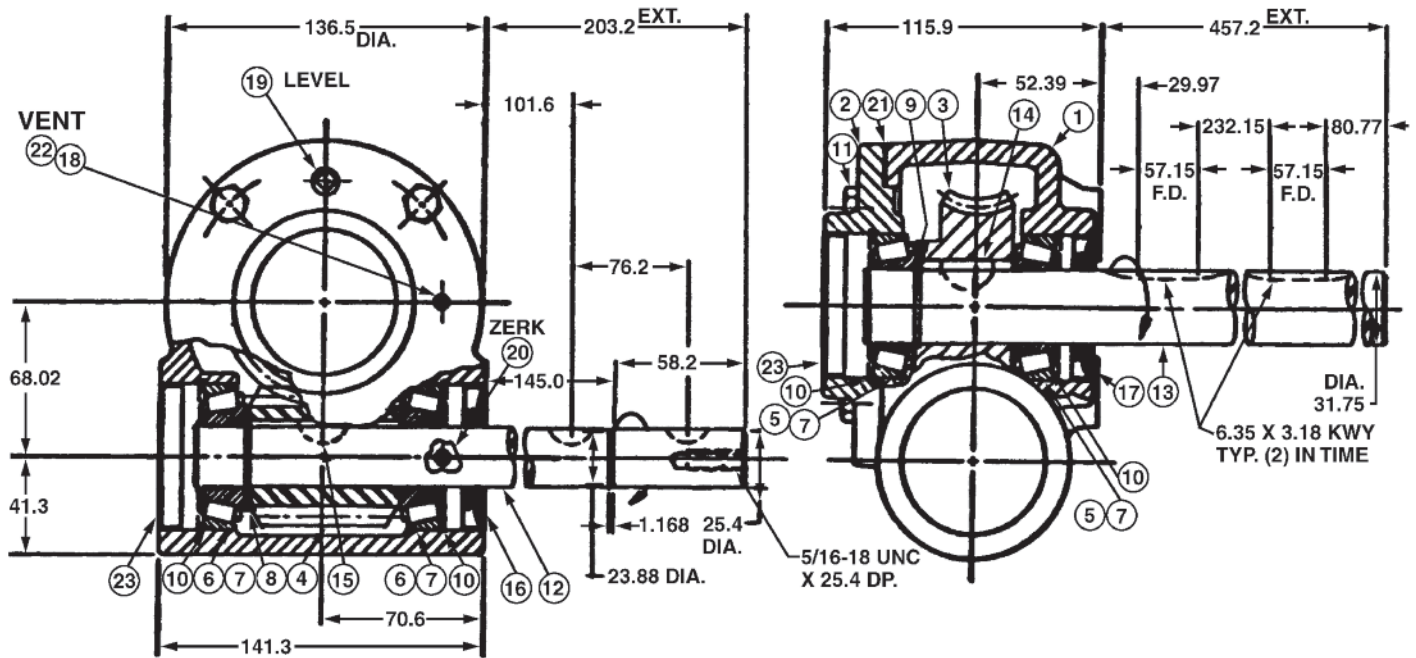


00012396 CHAIN BINDER MOUNTING KIT

ITEM	QTY	PART #	DESCRIPTION
1	4	05036106	Chain, 1/4" High Test, 12" OAL
2	1	05050050	Chain Binder, Chrome Plated, Set of 4
3	4	05051062	Eye Bolt, 3/8" - 16 x 2 1/2, 120 Style
4	4	05010645	Bolt, 3/8" - 16 x 1 1/2, G8, HHCS, Zinc
5	12	05021307	Washer, 3/8", Flat, Zinc
6	4	05021365	Washer, 3/8", Lock, Zinc
7	8	05020266	Nut, 3/8" - 16, G8, Hex, Zinc
8	4	05020898	Nut, 3/8" - 16, GC, Top Lock, C&W

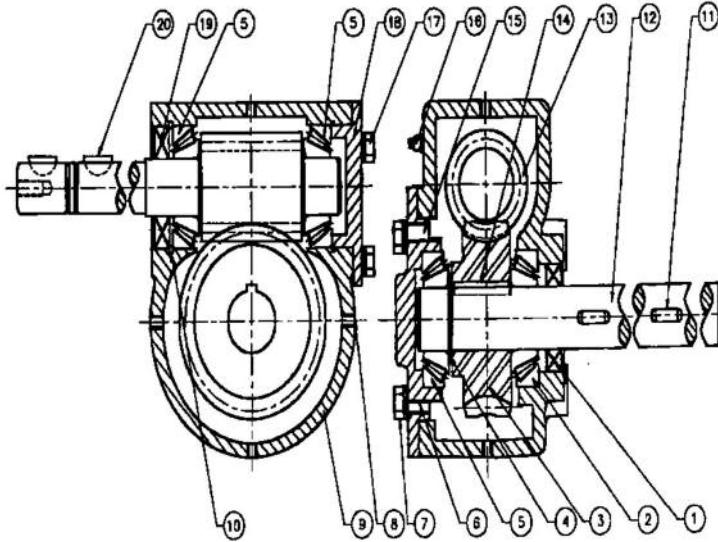
05007039 -- DURST GEARBOX ASSEMBLY, 20:1

USED ON ASSEMBLIES PRIOR TO SERIAL TAG NUMBER 00-03-7290



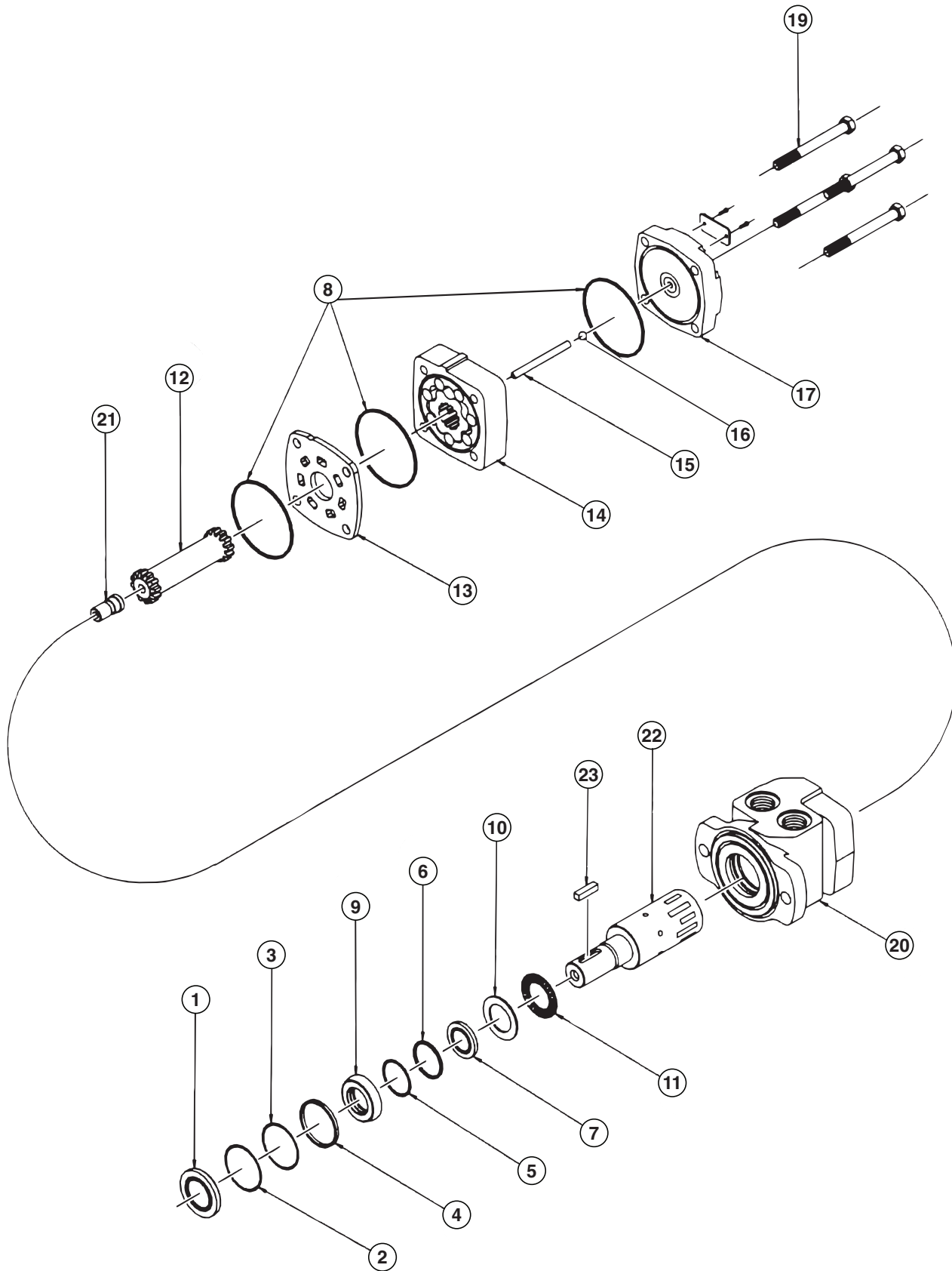
ITEM	QTY	PART #	DESCRIPTION
1	1	05007050	Housing
2	1	05007051	Cover
3	1	05007052	Worm Gear
4	1	05007053	Worm
5	2	05007054	Bearing Cone
6	2	05007055	Bearing Cone
7	4	05007056	Bearing Cup
8	1	05007057	Snap Ring, Input Shaft, External
9	1	05007058	Snap Ring, Output Shaft, External
10	4	05007059	Snap Ring
11	4	05010641	Bolt, 3/16 x 3/4", HHCS
12	1	05007060	Shaft, Input
13	1	05007061	Shaft, Output
14	1	05007062	Key, 3/16", Woodruff
15	1	05007063	Key, Woodruff
16	1	05007064	Seal, Input
17	1	05007065	Seal, Output
18	1	05007066	Plug, Shipping, 1/8-27 NPT
19	1	05007067	Plug, Level, 3/8-18 NPT
20	1	05007068	Zerk, 1/4-28 NF
21	1	05007069	Gasket, Side Cover
22	1	05007070	Plug, Vent, 1/8-27
23	2	05007071	Cap
24	A/R	05007072	Shim

05007160 -- CANNIMEX GEARBOX ASSEMBLY, 20:1
 USED ON ASSEMBLIES WITH SERIAL TAG NUMBER 00-03-7290 AND HIGHER, CONSECUTIVELY.



ITEM	QTY	PART #	DESCRIPTION
1	1	05007228	Double Lips Oil Seal
2	1	05007229	Tapered Roller Bearing
3	1	05007231	Worm Gear
4	1	05007232	External Circlip
5	3	05007233	Tapered Roller Bearing
6	1	05007234	Output Cover
7	4	05007235	Bolts
8	7	05007236	Socket Plug
9	1	05007237	Housing
10	1	05007238	Internal Circlip
11	2	05007239	Square Keys
12	1	05007241	Output Shaft
13	1	05007242	Single Thread Input Worm Shaft
14	1	05007243	Key
15	1	05007244	Socket Plug
16	1	05007245	Grease Fitting, Straight
17	3	05007246	Bolts
18	1	05007247	Input Cover
19	1	05007248	Double Lips Oil Seal
20	2	05007249	Woodruff Keys

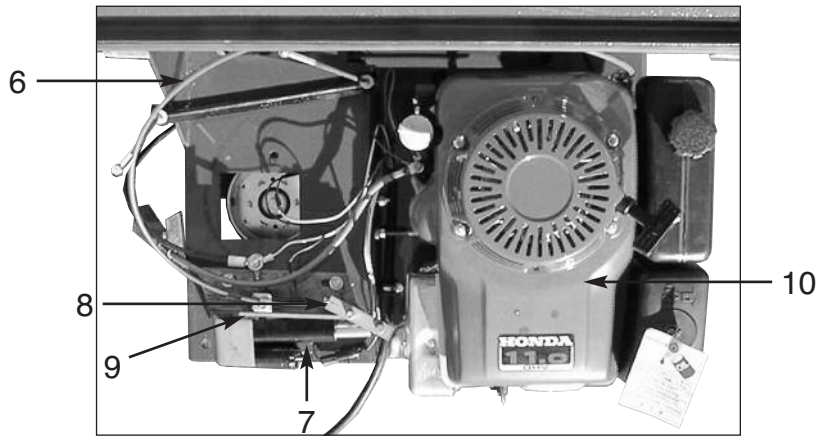
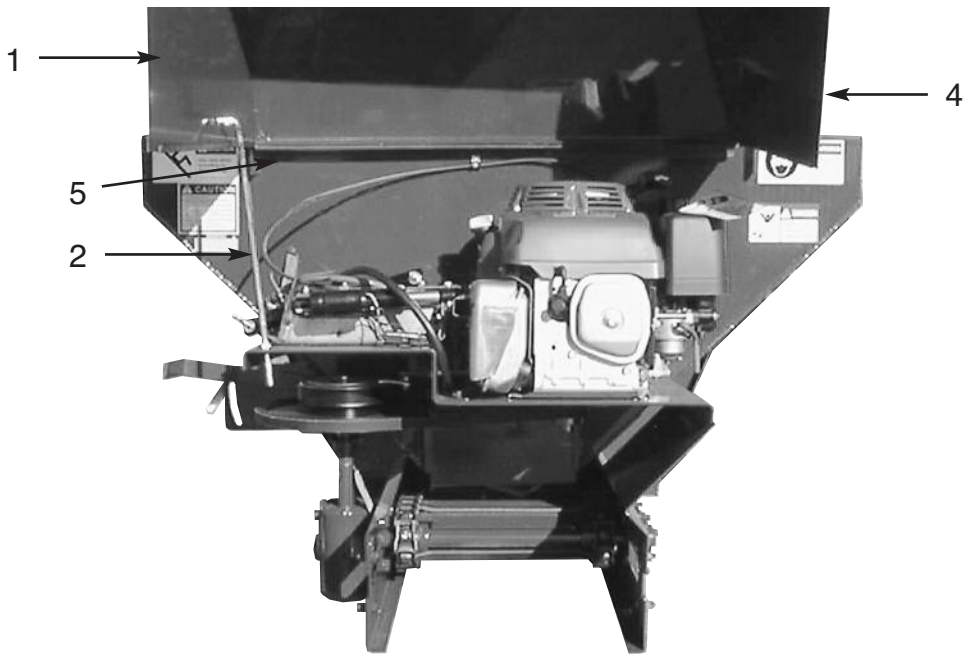
05006673 MOTOR, HYD, WHITE, 3.2CI, 4B, 1" EXT SHAFT, .875" ORB/SEAL SAVER



MOTOR ASSEMBLY PARTS LIST

Item	Part Number	Description
1	Seal Kit 05006679	Dust Seal
2		Split Wire Ring
3		Metal Backup Shim
4		High Pressure Seal
5		Metal Backup Shim
6		Teflon Backup Shim
7		Shaft Seal
8		Body Seals (3)
9		Seal Carrier
10		Thrust Washer
11	---	Thrust Bearing
12	---	Drive Link Kit
13	---	Wear Plate
14	---	Rotor Kit
15	---	Drive Link Pin Kit
16	---	Included in item #15 Drive Link Pin Kit
17	---	End Cover
18	---	Serial Number Plate
19	---	Bolt Set Kit
20	05006564	Housing Kit, 4-Hole, w/ 7/8" O-Ring
21	---	Cooling Plug
22	05006410	Shaft Kit 1" Straight Speed Sensor
23	---	Key Kit, 1" Straight

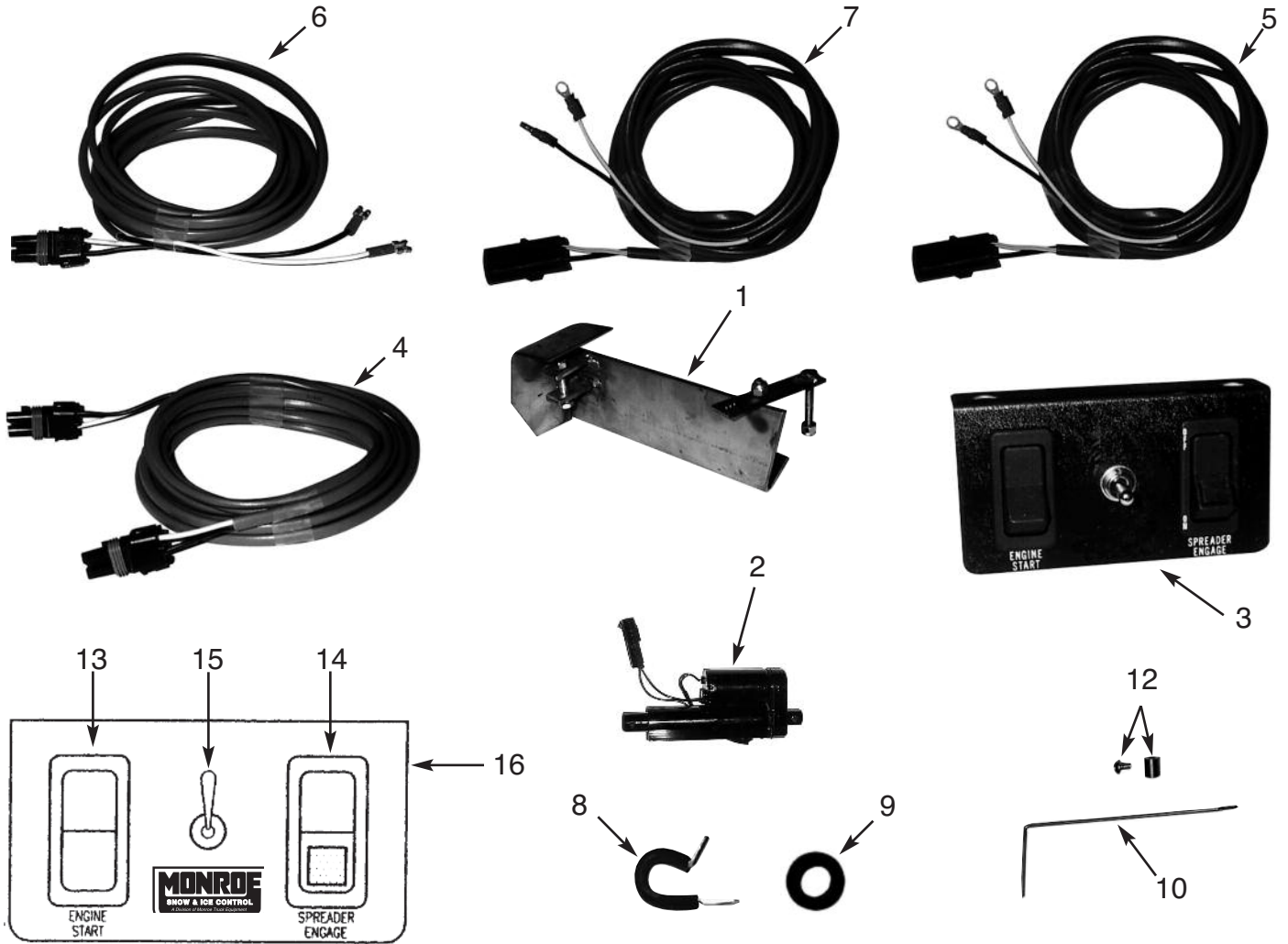
MD/MSPV OPTIONAL HONDA ENGINE



ITEM	QTY	PART #	DESCRIPTION
*1	1	00095119-A 00095119-B 00095119-C	Hood Weldment, Honda Engine, Mild Steel Hood Weldment, Honda Engine, 304 Stainless Steel Hood Weldment, Honda Engine, 409 Stainless Steel
*2	1 2 1	00057247 05021307 05020851	Rod, Hood, 17½" OAL, Carbon Steel Washer, ⅜", Flat, Zinc Nut, ⅝-16, Acorn, Zinc
*3	1 2 1 1	05022072 05022090 05050248 05050313	Pin, ⅜" x ⅞", Roll, Zinc <i>(Not Shown)</i> Pin, ⅜" x 3", No Head, with hole <i>(Not Shown)</i> Hood Catch, 3" T-Handle, Rubber, with Bracket <i>(Not Shown)</i> Clip Holder, Zinc <i>(Not Shown)</i>
*4	2	00057575	Engine Hood Trim, Black, 20", Side Seal
*5	1	00011655	Engine Hood Trim, Black, 33¼", Top Seal
6	1	00038925	Cable Assembly
7	1	00057494	Actuator Assembly
8	1	05051226	Cable Stop
9	1	00057236	Bracket, Actuator
10	1	05005000	Engine, 11 HP, Honda

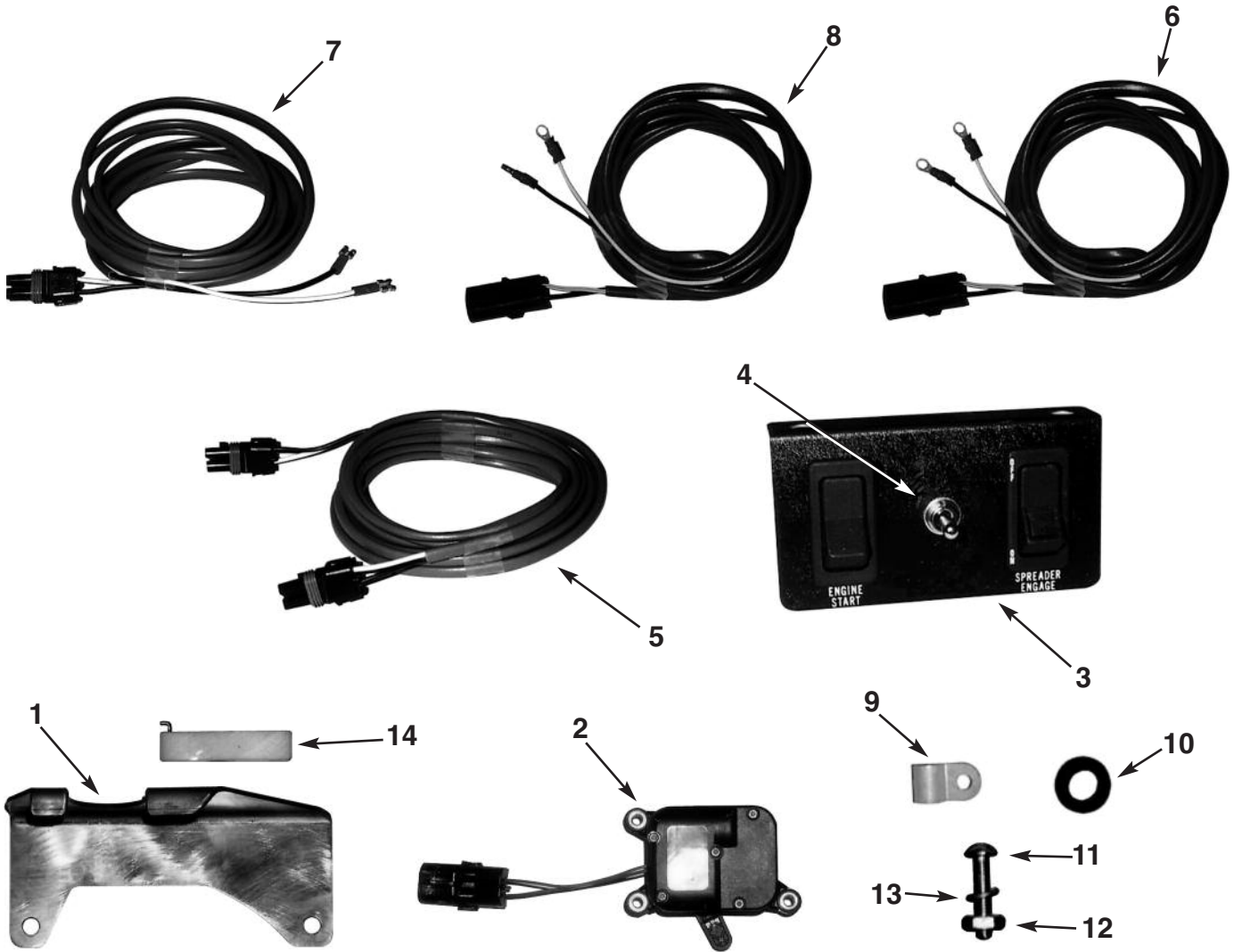
*Items 1-5 can be purchased as an assembly using one of the following part numbers: 00056272-A Engine Hood, Mild Steel
00056272-B Engine Hood, 304 SS
00056272-C Engine Hood, 409 SS

OLD STYLE ELECTRIC THROTTLE CONTROL KIT



ITEM	QTY	PART #	DESCRIPTION
1	1	00057236	Bracket, Electric Throttle Control (Old Style)
2	1	00057494	Throttle Motor, 12 VDC, Electric Throttle Control (Old Style)
3	1	05051276	Control Panel, Electric, PV, with wires and (2) switches
4	1	00057492	Wiring Harness, 2 Weatherpak Connectors, PV
5	1	00057493	Wiring Harness, with Female Weatherpak Connectors, PV
6	1	05051222	Wiring Harness (Attached to Control Panel)
7	1	05041013	Wiring Harness (Attached to Spreader)
8	8	05050150	Clamp, ¼" I.D., Cushioned Metal
9	1	05050118	Grommet, ½", Rubber
10	1	00057241	Rod, Throttle Control Linkage (Old Style)
11	1	05050119	Tie Strap, 8" (Not Shown)
12	1	05051226	Cable Stop (Old Style)
13	1	05041061	Switch, Starter, Man./Elec. Panel, PV
14	1	05041062	Switch, Spreader Engage, Man./Elec. Panel, PV
15	1	05041089	Switch, Toggle, Electric Panel, PV
16	1	05051220	Plate, Instrument Panel, Man./Elec., PV

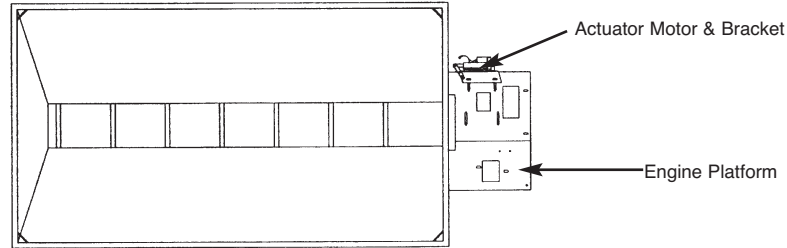
ELECTRIC THROTTLE CONTROL KIT



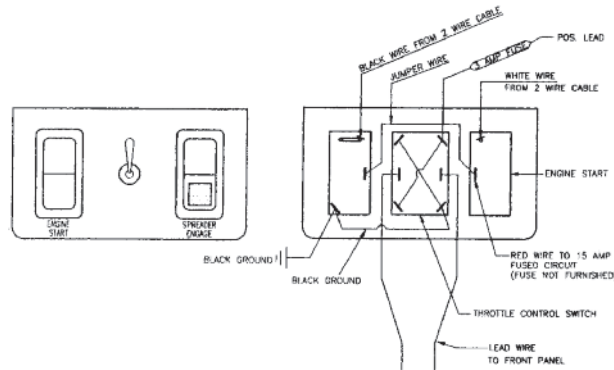
ITEM	QTY	PART #	DESCRIPTION
1	1	00024328	Bracket, Throttle Control
2	1	05050245	Throttle Actuator
3	1	05051276	Control Panel, Electric, PV w/Wires and (2) Switches
4	1	05041089	Switch, Toggle
5	1	00057492	Wiring Harness, 2 Male Weatherpak Connectors, PV
6	1	00057493	Wiring Harness, w/Female Spade, PV
7	1	05051222	Wiring Harness (Attached to Control Panel)
8	1	05041013	Wiring Harness (Attached to Spreader)
9	8	05051146	Clamp, Loom
10	1	05050118	Grommet, 1/2" Rubber
11	3	05016101	Screw, Machine, Slotted Round, #8 - 32 x 5/8", Stainless Steel
12	3	05016103	Nut, Hex Machine, #8 18-8, Stainless Steel
13	3	05016102	Washer, Lock, #8 18-8, Stainless Steel
14	1	05050246	Throttle Block with Pin
15	1	05050119	Tie Strap, 8" (Not Shown)

Installing Old Style Electric Throttle Control: --ACTUATOR--

- Bolt the throttle actuator motor to the actuator bracket
- Attach the actuator bracket to the motor platform with (2) $\frac{5}{16}$ " x 1" bolts, (2) $\frac{5}{16}$ " lock washers, (4) $\frac{5}{16}$ " flat washers and (2) $\frac{5}{16}$ " nuts, as shown in the diagram below.



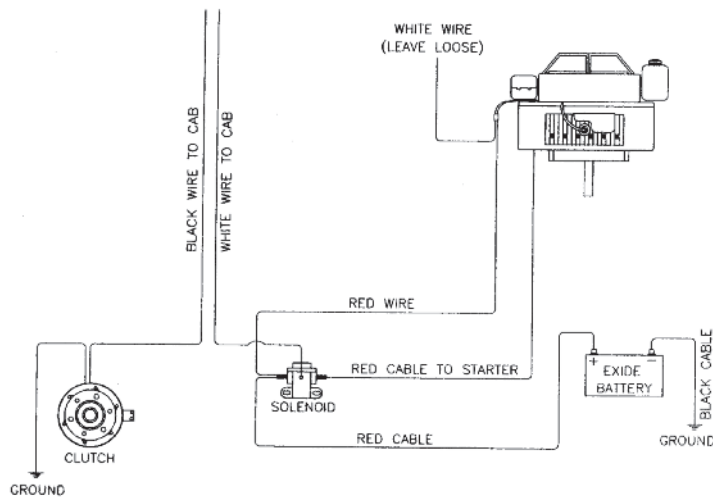
- Attach the "Z" hooked end of the throttle wire in the hole located in the center of the throttle slide. With the actuator fully retracted, attach the 90 degree end of the throttle wire in the middle hole of the actuator arm.
- Slide actuator bracket forward or backward until carburetor is fully choked, keeping the throttle wire as straight as possible, then tighten the nuts and bolts.
- Connect the wiring harness to the electric motor and route harness forward with the other harness being careful not to pinch the harness on any sharp edges. Route harness into truck cab and attach the wires to the control panel according to the wiring diagram shown below.



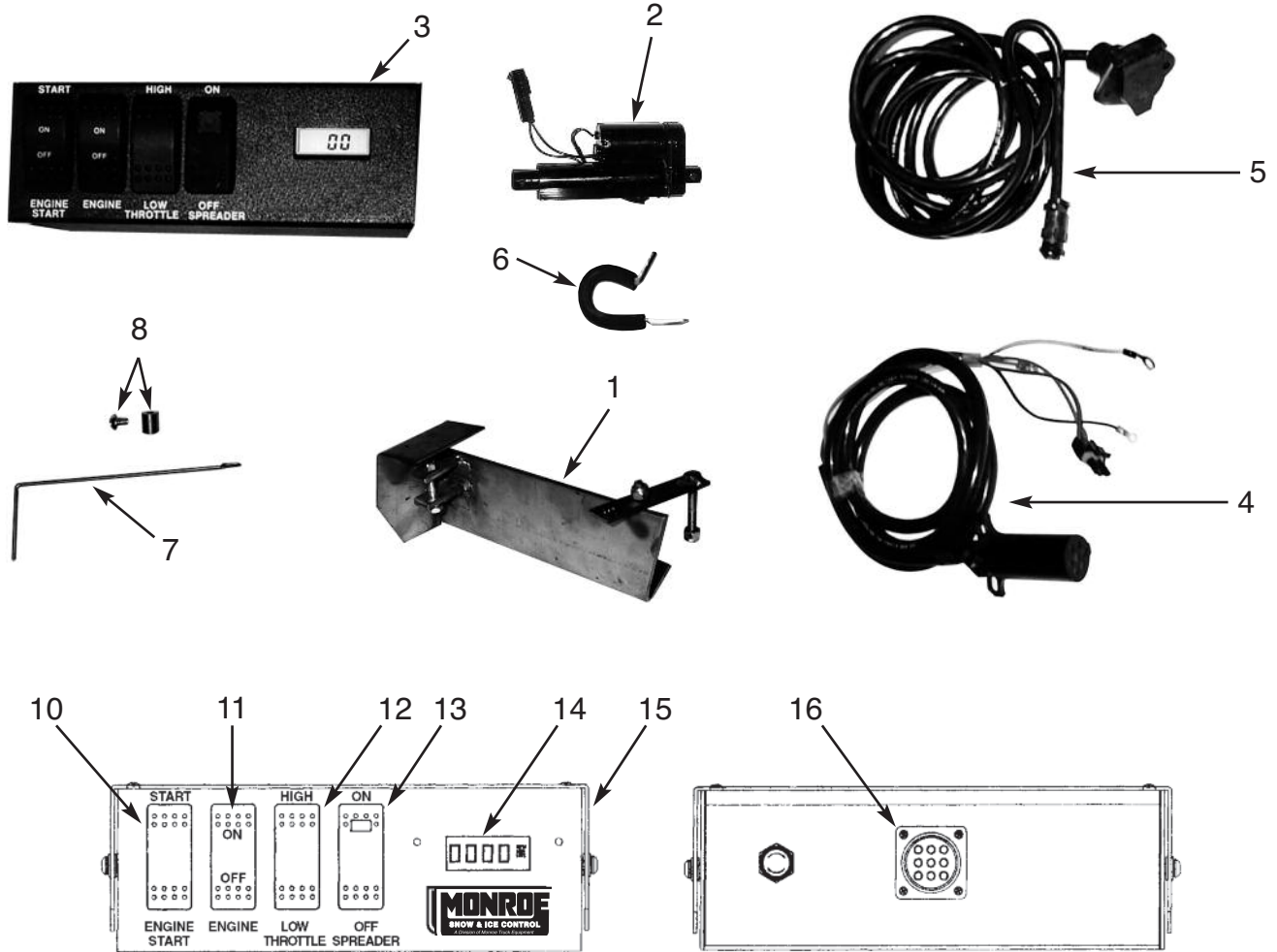
- With all the wires now connected, use the throttle switch to extend the actuator to the off position. Check to see that the throttle wire is not too tight. . . if so, move the wire to the next hole in actuator arm and repeat last two steps.
- Now that the throttle wire has been properly adjusted, slide cable stop onto wire and tighten screw.
- Visually check the oil and gasoline level in engine. Check all other adjustments such as chain, bearings, belt, pulleys and sprockets for tightness and alignment. Turn on in-line gas valve and make sure all safety shields are in place.
- Fully choke engine and push the starter button. Once engine has started, bring throttle back to idle or half speed.

Installation of Old Style Electric Start Control Panel: (OPTIONAL)

- Install a 12-volt battery with 40 ampere hour rating, recommended for winter use. The battery clamp furnished will accept any 2 SM series battery.
- Connect the battery cable leading from the solenoid, to the positive terminal of the battery. Attach the other battery cable to the negative terminal of the battery and the opposite end to the battery hold down post (ground for the system; see diagram below).
- Leave the white wire from engine harness loose. (To be used in different application)
- Attach the two conductor cables to the control panel, making sure the white wire is connected to the lone terminal of the engine start switch and the black wire to the lone terminal of the spreader engage switch. The red wire, which is about 4 feet long, must be connected into the vehicle's electrical system so that it provides power to switch bracket. This circuit must be protected by 15 amp. fuse (not supplied). Control panel will not function without this connection.
- Find a convenient location for the control panel and drill (2) $\frac{13}{32}$ " holes on 3" hole centers. Before mounting, you may want to install throttle cable to control panel according to installation instructions. Use (2) $\frac{3}{8}$ " x 1" bolts, (2) $\frac{3}{8}$ " lock washers and (2) $\frac{3}{8}$ " nuts to mount the panel securely.
- When finished, make sure all wires are away from moving parts and lower engine shroud.



OLD STYLE DELUXE ELECTRIC THROTTLE CONTROL KIT

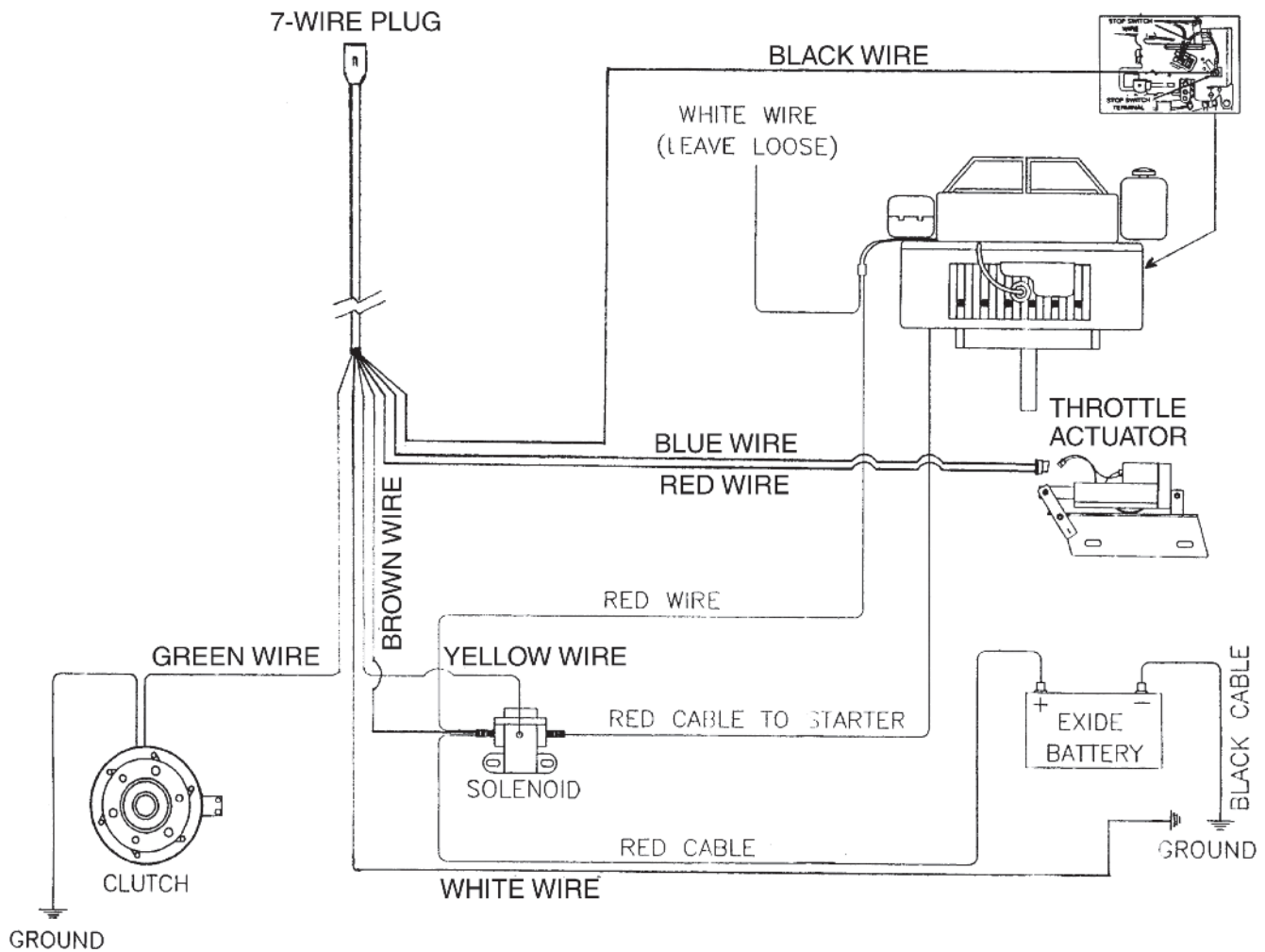


ITEM	QTY	PART #	DESCRIPTION
1	1	00057236	Bracket, Electric Throttle Control (Old Style)
2	1	00057494	Throttle Motor, 12 VDC, Electric Throttle Control (Old Style)
3	1	05041004	Control Panel, Deluxe, PV
*4	1	05041025	Harness, 7-Wire, V-Box Portion, 89"
*5	1	05041026	Harness, 7-Wire, Truck Portion, 199"
6	8	05050164	Clamp, ½" I.D., Cushioned Metal
7	1	00057241	Rod, Throttle Control Linkage (Old Style)
8	1	05051226	Cable Stop (Old Style)
9	1	05050119	Tie Strap, 8" (Not Shown)
10	1	05041100	Switch, Starter, Deluxe Panel, PV
11	1	05041101	Switch, On/Off, Deluxe Panel, PV
12	1	05041102	Switch, Throttle, Deluxe Panel, PV
13	1	05041103	Switch, Spreader Engage, Deluxe Panel, PV
14	1	05041104	Tachometer, Deluxe Panel, PV
15	1	05041105	Bracket, Mounting, Deluxe Panel, PV

*Items can be ordered as a kit. Part Number 05041024 Harness, Wiring Kit

Installing Old Style Deluxe Throttle Control:

- Use similar procedure as electric throttle installation (page 60) except use deluxe control panel and 7-wire harness as shown below.



DECAL KIT

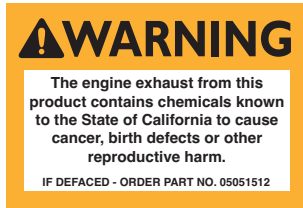
05051407



05051518



05051512



05051406 & 05051511



05051405

MONROE SPREADER

Monroe, Wisconsin 53566

05051404



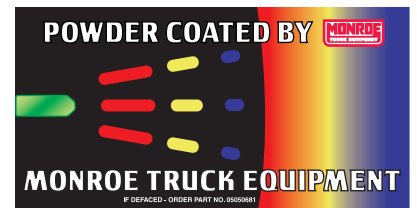
05051408



05051409



05050681



ITEM	QTY	PART #	DESCRIPTION
1	2	05051405	Decal "Monroe Spreader"
2	1	05051404	Decal "Caution #1-#6"
3	1	05051518	Decal "Oil Drain", MSPV, 1" x 1 1/2"
4	2	05051408	Decal "Caution: Keep Hands, Feet ..."
5	1	05051512	Decal "Warning:The Engine Exhaust..."
6	1	05051511	Decal "Danger: Turn Power Off ...", 2 1/2" x 5"
7	2	05051406	Decal "Danger: Turn Power Off ...", 3 1/2" x 8"
8	1	05051407	Decal "Warning:Stay Clear, Wear..."
9	1	05050681	Decal, 2.5" x 4.5", Bonded Powder
10	1	05051409	Decal, "Use Care When..."

HOW TO ORDER PARTS

To order or inquire about replacement parts, please contact the **distributor** or **store** that the product was purchased through. To speed the information flow, please have the following information ready:

- Model Number
- Serial Number
- Part Number and/or description as per the parts manual
- Quantity needed

For further information about **Monroe Truck Equipment** replacement parts, please call 800-880-0109 and ask for **Snow & Ice Parts Sales**.

RETURN POLICY

Merchandise returned to **Monroe Truck Equipment** must have a Warranty Service Request (WSR) form filled out completely and signed by authorized personnel. To get your WSR form, call 800-880-0109. For whole goods ask for **Snow & Ice Sales**. For replacement parts, ask for **Snow & Ice Parts Sales**. All returned items are subject to a 15% restocking fee and must be sent freight prepaid!

MONROE TRUCK EQUIPMENT, INC. WARRANTY SNOW & ICE CONTROL PRODUCTS

Monroe Truck Equipment, Inc. warrants to the original purchaser, that if any part of the product proves to be defective in workmanship or material within **ONE YEAR** of the original installation, and is returned to us within 30 days of the discovered defect, we will (at our option) repair or replace the defective part. This warranty does not apply to damage resulting from misuse, neglect, accident, improper installation, normal wear items or lack of maintenance. This warranty is exclusive and supersedes all other warranties, whether expressed or implied. **Monroe Truck Equipment, Inc.** neither assumes, nor authorizes anyone to assume for it, any other obligation or liability in connection with this warranty and will not be liable for consequential damages.

All engines, pumps, motors, cylinders and valves are warranted by their manufacturer and not by **Monroe Truck Equipment, Inc.**. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written permission of Monroe Truck Equipment. Use of replacement parts other than original equipment voids this warranty.

All defective parts returned must be accompanied by the model number, serial number, date installed, date of defect, description of defect, and the name of the distributor from whom it was purchased. All warranty claims must have prior written approval from **Monroe Truck Equipment, Inc.**

Please return the warranty registration card that accompanies this manual to confirm receipt of this parts catalog and acknowledge the information contained within. Failure to return the attached card may result in a voided warranty.



1051 West 7th Street
Monroe, WI 53566
608-328-8127 ~ Fax: 608-328-4278

Warranty Policy

Uninstalled Parts and Equipment Provided by Monroe Truck Equipment

Monroe Truck Equipment will provide the following limited warranty for a period of one year to the original purchaser of all uninstalled goods provided by Monroe Truck Equipment:

LIMITED WARRANTY: All goods provided by Monroe Truck Equipment (MTE) will be free from defects in material and workmanship for a period of one year from the date of purchase by the original purchaser. This limited warranty shall be the sole and exclusive remedy for any such product found to be defective. This limited warranty supercedes all previous warranties and is exclusive and in lieu of all other warranties, whether expressed or implied.

This limited warranty applies only to parts or accessories manufactured by MTE and/or provided by same. Except with respect to title, this limited warranty does not pertain to parts or accessories not manufactured and/or provided by MTE, regardless of whether such parts or accessories were selected and/or recommended by MTE. MTE will, as a service to the buyer, pass on any warranties received from the original manufacturer of MTE provided parts and/or accessories.

MTE will not under any circumstances be liable for any incidental or consequential damages whether in tort, contract, or otherwise, for any bodily injury, death, property damage, loss of use, or loss of income resulting from or in any way arising out of any goods provided by MTE, or their sale, use, or manufacture.

Any warranty claim deemed to be arising from the result of misuse, abuse, neglect, accident, improper installation, lack of maintenance, act of war (whether declared or otherwise), or act of God will be denied. Any repair or modification by the buyer or any third party, without the prior written consent of MTE, will void any possible warranty compensation. Any damage deemed to be the result of abnormal operation will not be compensated by this warranty.

Normal or special maintenance items such as fuels, fluids, tires, belts, hoses, filters, air cleaners, light bulbs, and any other items subject to normal wear and tear that are supplied in connection with goods provided by MTE are not allowed under this warranty.

All engines, pumps, cylinders, valves, and motors are warranted by their manufacturer and not by Monroe Truck Equipment. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written consent of MTE. Any disassembly of MTE provided components without prior authorization will void the applicable warranty.

Monroe Truck Equipment shall be the sole and final determining authority as it applies to the administration of this warranty policy. Purchaser acknowledges receipt of Monroe Truck Equipment Warranty Policy and agrees to be bound by same.



GLOBAL SOLUTIONS
ARMORED VEHICLES ~ SPORT TRUCK CONVERSIONS
MUNICIPAL SNOW & ICE CONTROL ~ FIRE APPARATUS
PICKUP TRUCK ACCESSORIES ~ TRUCK EQUIPMENT/MODIFICATIONS





1051 West 7th Street
Monroe, WI 53566
608-328-8127 ~ Fax: 608-328-4278

Any and all warranty claims must be forwarded to MTE within 10 days of defect discovery. A copy of the original Monroe Truck Equipment invoice as well as the manufacturer's model number, serial number, and date of installation must accompany all correspondence regarding said claims. MTE will, at their option, choose whether to repair or replace the defective part unless otherwise specified by the original manufacturer of said part.

Procedures for Warranty Claims Notification

For submission of any warranty claim please contact Monroe Truck Equipment – Warranty Department at 800-356-8134

The following documentation will be needed when you call for initial warranty authorization:

1. A copy of the original MTE invoice.
2. Make, Model, and VIN or Serial Number of the equipment involved.
3. Part number and serial number of the part in question.
4. A complete description of the problem.

The following must accompany any claim submitted to Monroe Truck Equipment:

1. Documented photographs of any physical damage.
2. Inspection notes by MTE personnel or MTE authorized 3rd party.
3. Authorization number issued by Monroe Truck Equipment – Warranty Department.

Defective parts must be returned to Monroe Truck Equipment (freight prepaid) within 30 days of issuance of Authorization Number.

Monroe Truck Equipment reserves the right to void any warranty for failure to comply with Monroe Truck Equipment Warranty Policy.

This policy is effective October 11, 2012

