PARTS MANUAL



WHITEMAN SERIES MODEL HHNG4, HHNG5 RIDE-ON TROWEL (VANGUARD 540000 35 HP GASOLINE ENGINE)

Revision #7 (03/07/18)

To find the latest revision of this publication, visit our website at: www.multiquip.com



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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NOTICE

> Specifications and part numbers are subject to change without notice.

PARTS ORDERING PROCEDURES

Ordering parts has never been easier! Choose from three easy options:

Effective: January 1st, 2006



lest Deall SOrder via Internet (Dealers Only):

Order parts on-line using Multiquip's SmartEquip website!

- View Parts Diagrams
- Order Parts
- Print Specification Information



If you have an MQ Account, to obtain a Username and Password, E-mail us at: parts@multiquip.com.

To obtain an MQ Account, contact your District Sales Manager for more information.

Goto www.multiquip.com and click on

Order Parts to log in and save!

Use the *internet* and qualify for a **5% Discount** on *Standard orders* for all orders which include complete part numbers.*

Note: Discounts Are Subject To Change



Order via Fax (Dealers Only):

All customers are welcome to order parts via Fax. **Domestic (US) Customers dial:**

1-800-6-PARTS-7 (800-672-7877)

Fax your order in and qualify for a 2% Discount on Standard orders for all orders which include complete part numbers.*

Note: Discounts Are Subject To Change



Order via Phone:

Domestic (US) Dealers Call:

1-800-427-1244

Non-Dealer Customers:

Contact your local Multiquip Dealer for parts or call 800-427-1244 for help in locating a dealer near you.



International Customers should contact their local Multiquip Representatives for Parts Ordering information.

When ordering parts, please supply:

- □ Dealer Account Number
- □ Dealer Name and Address
- ☐ Shipping Address (if different than billing address)
- □ Return Fax Number
- ☐ Applicable Model Number
- ☐ Quantity, Part Number and Description of Each Part
- Specify Preferred Method of Shipment:
 - ✓ UPS/Fed Ex
- ✓ DHL ✓ Truck
- Ground
- Next Dav
- Second/Third Day

Priority One

NOTICE

All orders are treated as *Standard Orders* and will ship the same day if received prior to 3PM PST.





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EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

NOTICE

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

SAMPLE PARTS LIST

NC	<u>). </u>	PART NAME	<u>QTY.</u>	<u>REMARKS</u>	
1	12345	BOLT	1	INCLUDES I	TEMS W/%
2%		WASHER, 1/4 I	N	NOT SOLD	SEPARATELY
2%	12347	WASHER, 3/8 I	N1	MQ-45T ON	LY
3	12348	HOSE	A/R	MAKE LOCA	ALLY
4	12349	BEARING	1	S/N 2345B <i>A</i>	AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

Duplicate Item Numbers — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

QTY. Column

Numbers Used — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

REMARKS Column

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

Serial Number Break — Used to list an effective serial number range where a particular part is used.

Indicated by:

"S/N XXXXX AND BELOW"

"S/N XXXX AND ABOVE"

"S/N XXXX TO S/N XXX"

Specific Model Number Use — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

"XXXXX ONLY"

"NOT USED ON XXXX"

"Make/Obtain Locally" — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"Not Sold Separately" — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

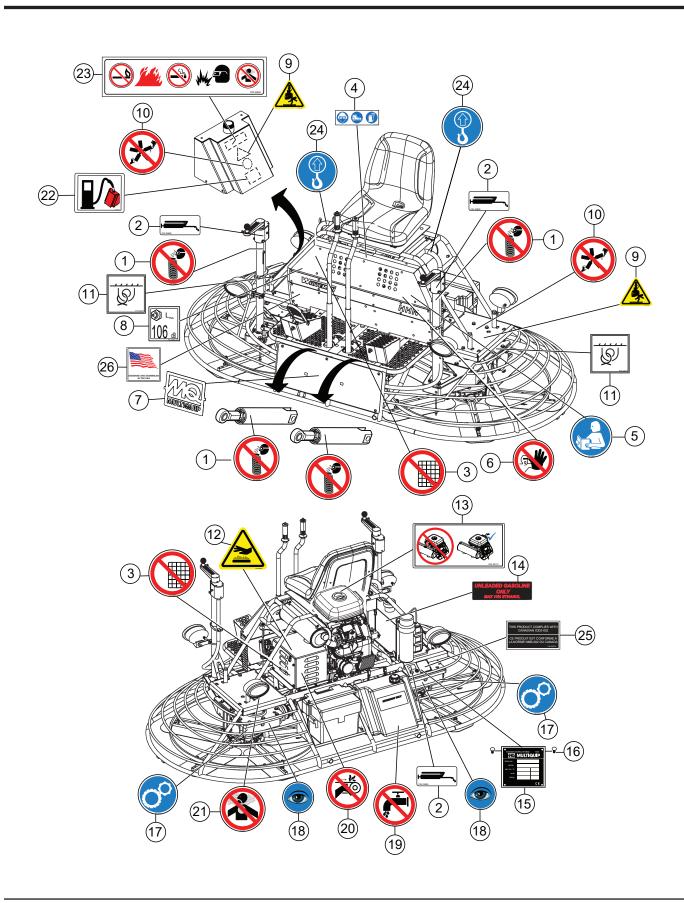
HHNG4, HHNG5 RIDE-ON TROWEL WITH VANGUARD 540000 GASOLINE ENGINE

1 to 3 units

Qty.	P/N	Description
1	23365	BELT, CUT CLUTCH
		.CAP, SPRAY TANK
		.CABLE, THROTTLE
		.CABLE, CHOKE 60"
		.CAP, RATCHET W/ GAUGE "GASOLINE"
		.OIL, 24 OZ. BOTTLE
	23284-300	
	23284-100	
	22725-600	
	22725-200	
	12017	
	32594	
	Q16PRU11	
	842921	
		FILTER, AIR CLEANER CARTRIDGE
		FILTER, PRE AIR CLEANER
1	842109	SOLENOID, FUEL W/O-RING
	842921	
		.SWITCH, OIL PRESSURE
		.KEY, IGNITION W/ BOOT
2	2829-1	. ARM, TROWEL, SILVER
		.BUSHING, TROWEL LARGE ARM
5	691035	. FILTER, FUEL, 40 MICRON
		. FILTER, FUEL, 20 MICRON
		.MODULE, POWER RELAY
	21870	

NOTICE

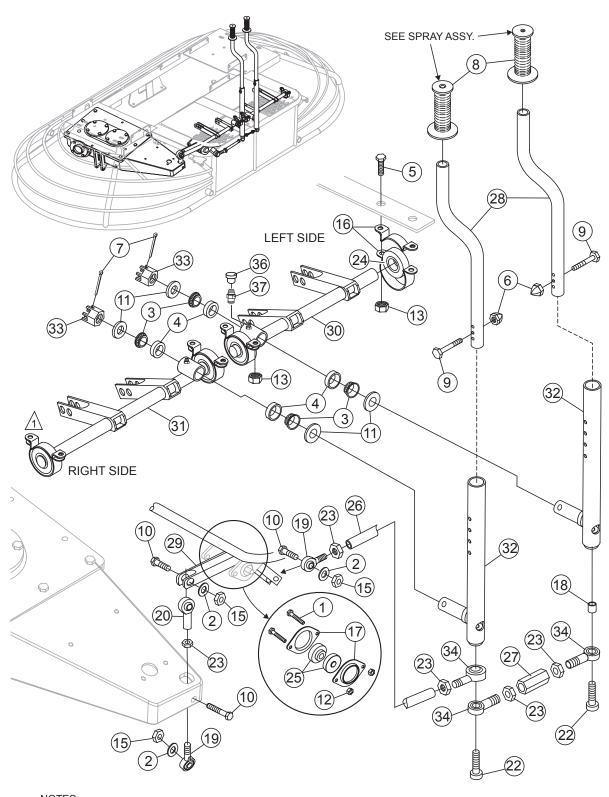
Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.



NAMEPLATE AND DECALS

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	23804	ISO DECAL, DO NOT DISSASSEM. CYL. HAZ., 2.00" DIA	4	
2	23809	DECAL, LUBRICATION POINT 2.0" X 1.0"	3	
3	23874	ISO DECAL, DO NOT REMOVE GUARDS HAZ., 2.00" DIA	2	
4	36099	ISO DECAL, PROTECTIVE CLOTHING, 3.50" X 1.13"	1	
5	23699	ISO DECAL, READ MANUAL, 2.00" DIA	1	
6	23701	ISO DECAL, ASK FOR TRAINING, 2.00" DIA	1	
7	23235	BADGE, FOOT PLATFORM	1	
8	23803-106	ISO DECAL, GUARANTEE SND PWR LVL., 1.41" X 1.57"	1	
9	23700	DECAL ISO, LIFTING/CRUSH, 2.4" X 2.0" DIA	2	
10	23698	DECAL ISO, ROTATING BLADE HAZARD, 2.00" DIA	2	
11	42971	ISO DECAL, TIE DOWN, 1.75" X 1.75"	2	
12	23808	ISO DECAL, HOT SURFACE HAZARD, 2.00" DIA	1	
13	30113	DECAL, AIR CLEANER COVER, 4.00" X 2.00"	1	
14	23587	DECAL, UNLEADED GASOLINE	1	
15		DECAL, SERIAL PLATE, EPA EVAP	1	. CONTACT MQ
				PARTS DEPT.
16	4014	SCREW, 2-3/16 P-K TYPE U-DRIVE	4	
17	30118	ISO DECAL, GEAR DRIVE, 2.00" DIA	2	
18	30117	ISO DECAL, EYE, INSPECTION, 1.00" DIA	2	
19	23811	ISO DECAL, NO WATER WARNING, 2.00" DIA	1	
20	23704	ISO DECAL, GUARD HAZARD, 2.00" DIA.	1	
21	23810	ISO DECAL, INHALATION HAZARD, 2.00" DIA	1	
22	23812	DECAL, FUEL, GASOLINE, 3.00" X 2.45"	1	
23	34630	ISO DECAL, FIRE, EXPLOSION HAZ., 6.25" X 1.92"	1	
24	23805	ISO DECAL, LIFT LOCATION, 1.00" DIA.	2	
25	32578	ISO DECAL, SPARK CANADA	1	
26	30538	DECAL, FLAG DESIGNED AND ASSEMBLED IN USA	1	

STEERING CONTROL HANDLE ASSY.



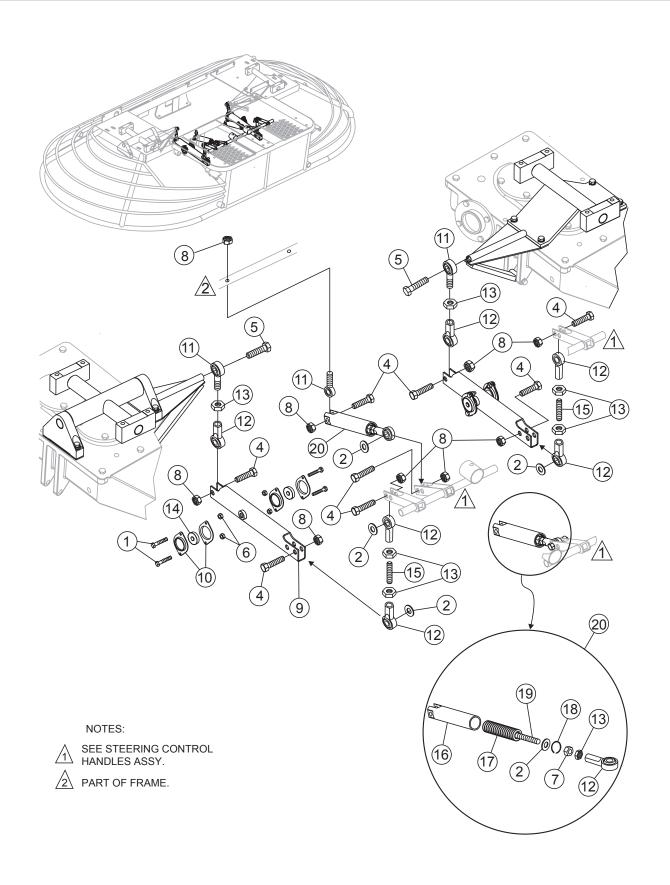
NOTES:

FOR COMPLETE STEERING ASSY ORDER PART# 30061.

STEERING CONTROL HANDLE ASSY.

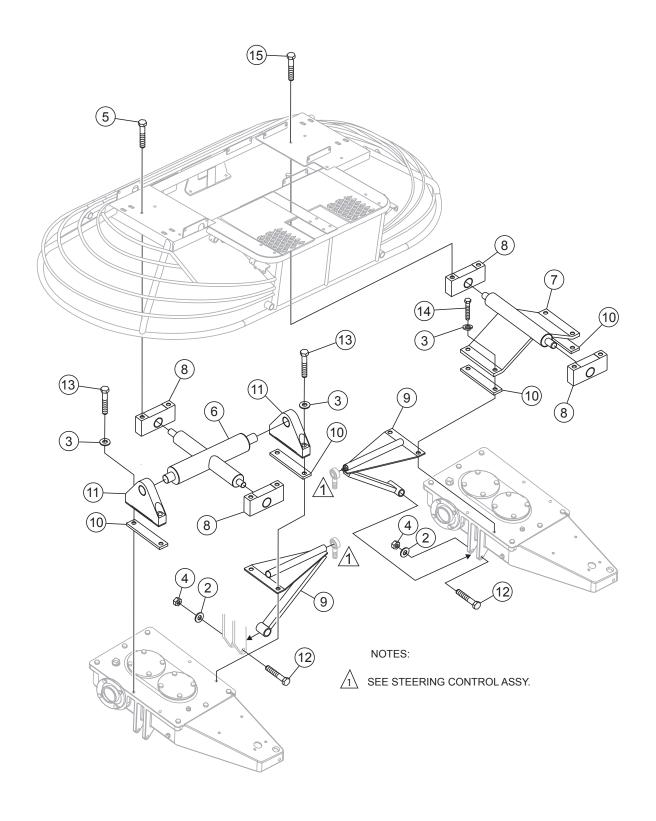
NO.	PART NO.	PART NAME SCREW, HHC 1/4"-20 X 3/4" WASHER, FLAT, 1/2" SAE BEARING, CONE, TIMKEN #A6075 BEARING, CUP, TIMKEN #A6157 BOLT, CARRIAGE 5/16"-18 X 1-1/2" GRD 5	QTY.	REMARKS
1	0131 A	SCREW. HHC 1/4"-20 X 3/4"	4	
2	0447	WASHER, FLAT, 1/2" SAE	3	
3	0735	BEARING, CONE. TIMKEN #A6075	4	
4	0735 A	BEARING, CUP. TIMKEN #A6157	4	
5	07046-011	BOLT. CARRIAGE 5/16"-18 X 1-1/2" GRD 5	8	
6	2197	NUT, ACORN 1/4"-20	2	
7	2219	PIN, COTTER 1/8" X 1-1/2"	2	
8	22762	, , , , , , , , , , , , , , , , , , ,	2	
9	5277		2 2	
10	6159 A	,	3	
11	8151	WASHER, FLAT, 3/4" SAE	4	
12	10024	·	4	
13	49071	NUT. NYLOC 3/8"-16	8	
15	10176	NUT. NYLOC 1/2"-13	4	
16	11138-SK	HOUSING, P-BLOCK 47MPB, 2 PC	4	
17	11139-SK	HOUSING, BEARING FLANGE 40M-2347	6	
18	22405	SPACER, .75 X .50 X 2.0	1	
19	11142	ROD END. 1/2"-20 MALE RH	11	
20	11143	SPACER, .75 X .50 X 2.0 ROD END, 1/2"-20 MALE RH ROD END, 1/2"-20 FEMALE RH SCREW. SHC 1/2"-20 X 3" PLTD NUT, HEX JAM 1/2"-20 BEARING, SB-204-12 BEARING, SB-201-B ROD, L/R MOTION CONTROL NUT, COUPLING, 1/2"-20 X 2.0 X .75 HEX	1	
22	11145	SCREW, SHC 1/2"-20 X 3" PLTD	2	
23	11146	NUT. HEX JAM 1/2"-20	5	
24	11149	BEARING, SB-204-12	4	
25	11150	BEARING, SB-201-B	6	
26	11172	ROD. L/R MOTION CONTROL	1	
27	22404	NUT, COUPLING, 1/2"-20 X 2.0 X .75 HEX	1	
28	11177	HANDLE TUBE, UPPER	2	
29	12193	LEVER, L/R MOTION	1	
30	12903	STEERING CONTROL W/A LS ASSIST	1	
31	12904	STEERING CONTROL W/A RS ASSIST	1	
32	12425	HANDLE, LOWER	2	
33	12426	NUT. SLOTTED 3/4"-16 PLATED	2	
34	21944	ROD END, 1/2"-20 M RH W/ CUSTOM BALL	3	
36	1162 A	CAP, GREASE ZERK	2	
37	2621	FITTING, GREASE ZERK STRAIGHT 1/4"-28	2	

STEERING CONTROL (ASSIST) ASSY.



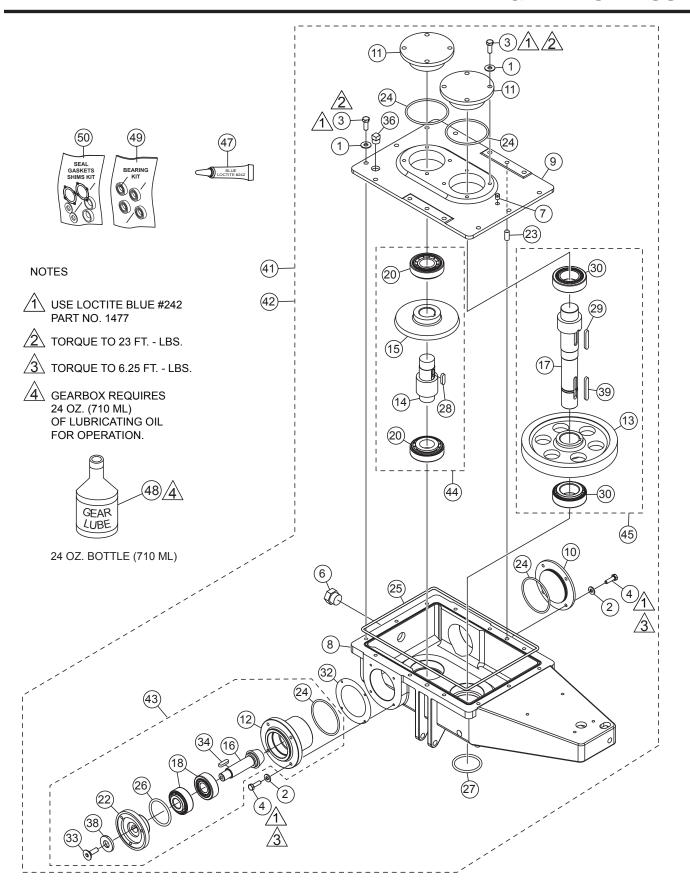
STEERING CONTROL (ASSIST) ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	0131 A	SCREW, HHC 1/4"-20 X 3/4"	12	
2@	0447	WASHER, FLAT, 1/2" SAE	12	
4	6159A	SCREW, HHC 1/2"-13 X 2"	8	
5	22135	SCREW, HHC 1/2"-20 X 1-1/2"	2	
6	10024	NUT, NYLOC 1/4"-20	16	
7@	10087	NUT, NYLOC 1/2"-20 THIN	2	
8	10176	NUT, NYLOC 1/2"-13	13	
9	11127	LEVER, STEERING CONTROL	2	
10	11139-SK	HOUSING, BEARING FLANGE 40M-2347	6	
11	11142	ROD END, 1/2"-20 MALE RH	4	
12@	11143	ROD END, 1/2"-20 FEMALE RH	6	
13@	11146	NUT, HEX JAM 1/2"-20	8	
14	11150	BEARING, SB-201-8	4	
15	11173	THREADPIECE, STEERING LEVERS	2	
16@	12195	HOUSING, STEERING ASSIST SPRING	2	
17@	12196	SPRING, STEERING ASSIST	2	
18@	12197	RING, RETAINING	2	
19@	12198	SCREW, HHC 1/2"-20 X 7" TAP GRD 5	2	
20	12200	ASSIST ASSY., STEERING	2	INCLUDES ITEMS W/@



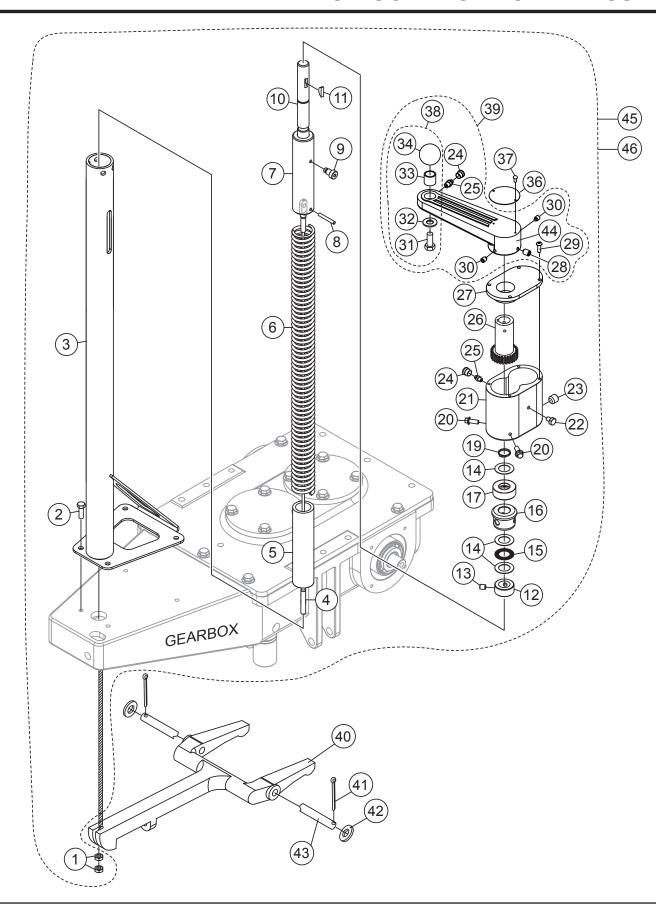
PIVOT ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
2	0447	WASHER, FLAT 1/2" SAE	2	
3	21707	WASHER, FLAT 3/8" SAE	8	
4	10176	NUT, NYLOC 1/2"-13	2	
5	22106	SCREW, HHFS 3/8"-16 X 1-1/4" ZINC	6	
6	12716	TRUNNION	1	
7	12719	PIVOT, GEAR BOX	1	
8	12725	BLOCK, ROCKER	4	
9	12856	BRACKET, DIRECTION CONTROL	2	
10	12859	PLATE G.B. SPACER	4	
11	12713	ROCKER BLOCK	2	
12	2549	SCREW, HHC 1/2"-13 X 3"	2	
13	32272	SCREW, HHC 3/8"-16 X 2-1/4"	4	
14	32271	SCREW, HHC 3/8"-16 X 1-3/4"	4	
15	32476	SCREW, HHF 3/8"-16 X 1-1/4" GRD 8	2	



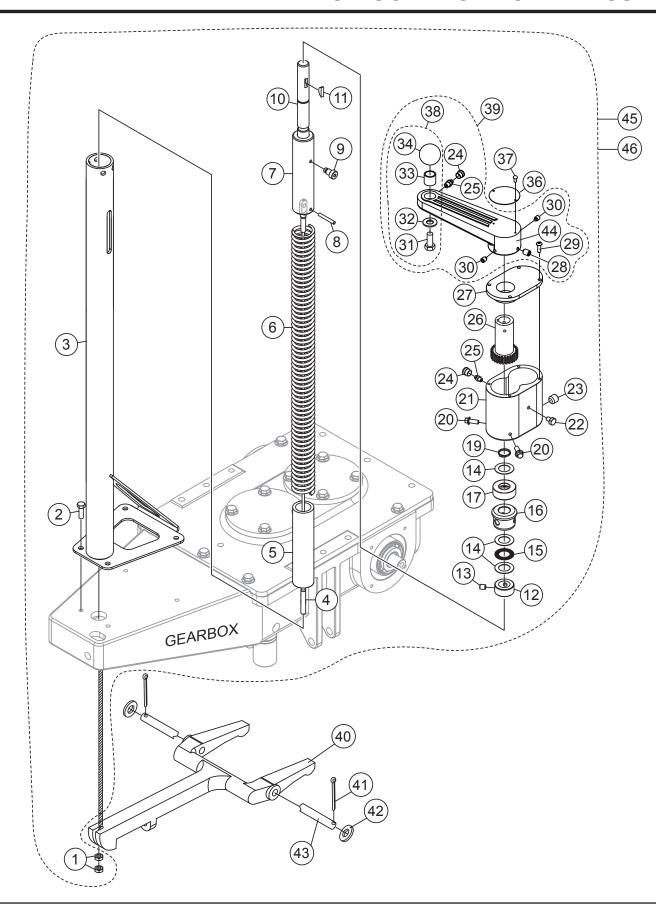
GEARBOX ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1\$	10136	WASHER, FLAT SAE 3/8"	16	
2\$	0948	WASHER, FLAT SAE 1/4"	8	
3\$	0205	SCREW, HHC 3/8"-16 X 1"	16	
4\$	2295	SCREW, HHC 1/4"-20 X 7/8"	8	
6\$	11584	SIGHT GLASS	1	
7\$	11682	FITTING, PLUG, 1/8" MP SQ HEAD	1	
8\$		GEARBOX HOUSING	1	NOT SOLD SEPARATELY
9\$	21811	COVER, GEAR BOX	1	
10\$	21813	CAP, HELICAL GEARBOX INPUT	1	
11\$	21810	CAP, HELICAL GEARBOX IDLER	2	
12\$%		CAP, HELICAL GEARBOX IDLER HUB, HELICAL INPUT SHAFT	1	MUST PURCHASE KIT
13\$+		GEAR, 85T HELICAL	1	MUST PURCHASE KIT
14\$@		GEAR PINION 17T HELICAL	1	MUST PURCHASE KIT
15\$@		GEAR, SPIRAL BEVEL, 60T 6.00PD	1	MUST PURCHASE KIT
16\$%		PINION, 15T SPIRAL BEVEL	1	MUST PURCHASE KIT
	21804	GEAR, SPIRAL BEVEL, 60T 6.00PD PINION, 15T SPIRAL BEVEL SHAFT, OUTPUT	1	MUST PURCHASE KIT
·	21803	BEARING, TAPERED ROLLER SET	2	
20\$@#	21802	BEARING, TAPERED ROLLER SET	2	
22\$%		BEARING, TAPERED ROLLER SET COUPLER, GEARBOX	1	MUST PURCHASE KIT
23\$	12697	PIN, DOWEL 0.375/.3752 X 3/4"	2	
24\$%>	12698	O RÍNG	4	
25\$>	12700	SEAL, CASE 0-RING HHN 0.103 X 46.38	1	
26\$%>	12701	SEAL	1	
27\$>	12702	SEAL	1	
28\$@	12735	KEY, 3/8" X 3/4"	1	
29\$+	12736	KEY, HARDENED 3/8" X 1-1/2"	1	
30\$+#	21801	BEARING, CONE TAPERED ROLLER SE		
32\$		SHIM, INPUT 0.002 THICK	3	MUST ORDER P/N 20932
33\$%	1313	SCREW, FHSC 3/8"-24 X 3/4" PLAIN	1	
34\$%	26034	KEY, 3/16" X 17/32"	1	
36\$	911064	FITTING, PLUG 1/2" MP SQ HEAD	1	
37\$	911329	FITTING, PLUG 3/8" MP MAGNETIC	2	
38\$%	9120	RETAINER, DRIVEN PULLEY	1	
39\$+	12687	KEY, 3/8" SQ X 2"	1	
41	32214	GEARBOX ASSY. W/OIL, RIGHT	1	INCLUDES ITEMS W/\$
42	32213	GEARBOX ASSY. W/OIL, LEFT	1	INCLUDES ITEMS W/\$
43\$	21853854INPUT	KIT, INPUT PINION/HUB/COUPLER	1	INCLUDES ITEMS W/%
44\$	21853854INTER		1	INCLUDES ITEMS W/@
45\$		KIT, OUTPUT SHAFT/GEAR	1	INCLUDES ITEMS W/+
47	1477	LOCTITE BLUE #242	1	
48	20445	OIL, HELICAL SERVICE 24 OZ.	6	
49	32077	KIT, SERVICE, BEARING REPLACEMENT		
50	20932	KIT, SEAL GEARBOX	1	INCLUDES ITEMS W/>



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NO.	<u>PART NO.</u>	PART NAME	QTY.	<u>REMARKS</u>
1\$#	1116	NUT, BRASS JAM 5/16"-18	2	
2\$#	9091	SCREW, HHFS 5/16"-18 X 1" GRD 5	4	
3\$	23850	TOWER, PITCH CONTROL	1	RIGHT-SIDE
3#	23851		1	LEFT-SIDE
4\$#	12460	CABLE, PITCH CONTROL	1	
5\$#	11649	SPACER, PITCH SPRING	1	
6\$#	2156	SPRING, HANDLE BALANCE COIL TWN RDR	1	
7\$	10721	SLIDE BLOCK, PITCH CONTROL	1	RIGHT-SIDE
7#	10722	SPRING, HANDLE BALANCE COIL TWN RDR SLIDE BLOCK, PITCH CONTROLSLIDE BLOCK, PITCH CONTROL	1	LEFT-SIDE
8\$#	10723	PIN. SPIRAL 3/16" X 1-3/8" HD	1	
9\$#	10382	BOLT, SHOULDER, 3/8" X 3/8" LONG SHAFT, PITCH CONTROL	1	
10\$	10510	SHAFT, PITCH CONTROL	1	RIGHT-SIDE
10#	10511	SHAFT, PITCH CONTROL	1	LEFT-SIDE
11\$#	0126	KEY, WOODRUFF #606 3/16" X 3/4" (#9)	1	
12\$#	2367	COLLAR, SET .75 X 1.25 X .56	1	
13\$#	925437	SCREW, SHS, CP 5/16"-18 X 3/8"	2	
14\$#	2170	BEARING, RACE, TORR. #TRA1220	3	
15\$#	2169	BEARING, THRUST, TORR. #NTA1220	1	
16\$#	1612	BEARING, ALUMINUM, PITCH CONTR.	1	
17\$#	1604	BEARING, BALL THRUST E5 AETNA	1	
19\$#	10512	RING, SNAP, TRUARC 5160-75	1	
20\$#	22021	SCREW, HHFS M8-1.25 X 20 MM TENSILOK PATCH	2	
21\$#	23037	HOUSING, PITCH CONTROL	1	
22\$#	20476	SCREW, HHC 1/4"-28 X 3/8"	1	
23\$#	17109	SCREW, SHSCU M8-1.25 X 8MM	1	
24%\$#	1162 A	CAP, GREASE ZERK, #2 YELLOW	2	
25%\$#	2621	FITTING, GREASE ZERK STR 1/4"-28	2	
26\$#	1529	GEAR, DRIVE PITCH CONTROL	1	
27\$#	2649	COVER, PITCH CONTROL HOUSING	1	
28%\$#	0185	SCREW, SHS 3/8"-16 X 3/8", NO PLATE	1	
29\$#	9191	SCREW, BHSC M5-0.8 X 16MM	4	



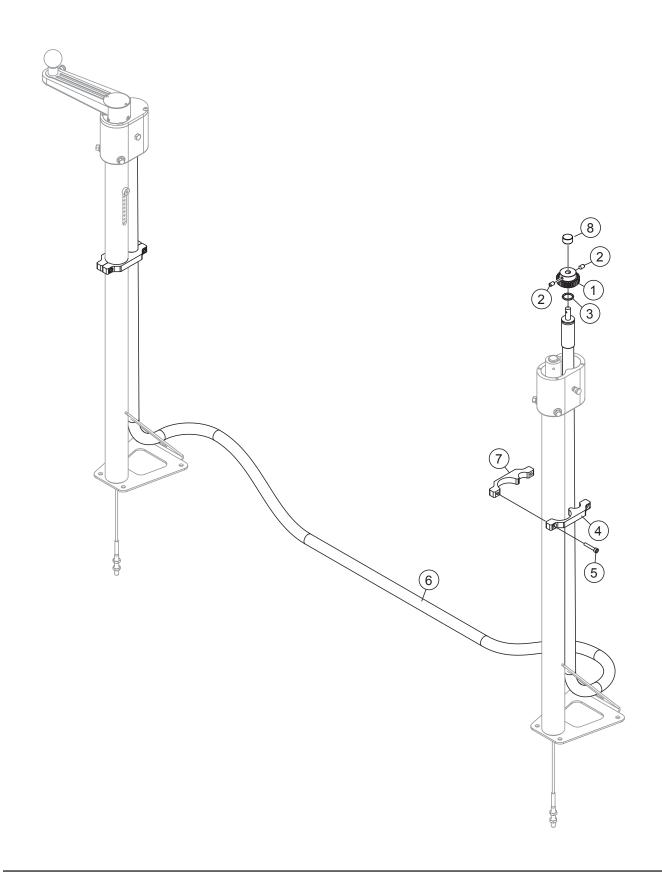
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NO.	PART NO.	PART NAME	QTY.	REMARKS
30%\$#	1528	SCREW, SHS 1/4"-20 X 5/16" H.D.P.	2	
31@%\$#	1616	BOLT, SHOULDER .5 DIA. X .469 X 3/8"-16	1	
32@%\$#	1733	WASHER, 1/2" X 1/32", AN960-816L	1	
33@%\$#	3231	SPACER, .75 DIA. X .406 DIA. X .688	1	
34@%\$#	4403	KNOB, ROUND 1-3/8" DIA. X 3/8"-16 BLACK	1	
36\$	2300	DECAL, PITCH	1	RIGHT-SIDE
36#	2332	DECAL, PITCH	1	LEFT-SIDE
37S#	4014	SCREW, #2, 3/16" P-K TYPE U DRIVE	2	
38%\$#	2737	KNOB, KIT	1	INCLUDES ITEMS W/@
39\$#	1617	LEVER ASSY., TROWEL ADJUSTMENT		
40	11499	YOKE ARM, PITCH	1	
41	0183	PIN, COTTER 1/8"D X 1-1/4"	2	
42	0448	WASHER, FLAT SAE 7/16"	2	
43	11648	SHAFT, YOKE PIVOT	1	
44%\$#	1615	LEVER, TROWEL ADJUSTMENT	1	
45	23850-SK	TOWER ASSY., RH	1	INCLUDES ITEMS W/\$
46	23581-SK	TOWER ASSY., LH		

NOTICE

Indicated quantities are for one pitch tower. If ordering for two pitch towers, double the quantity.

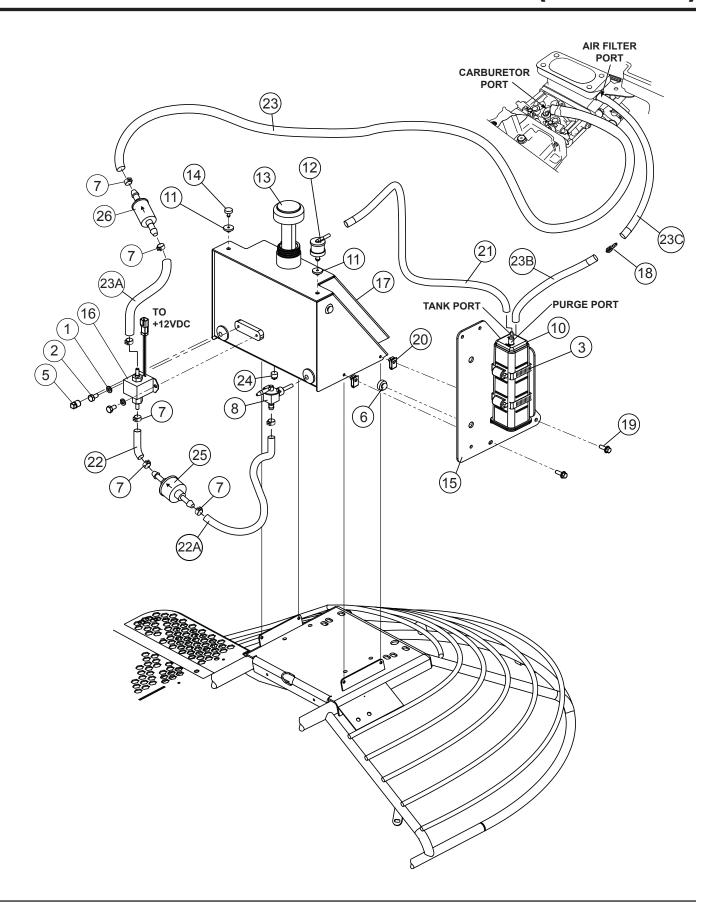
PITCH CONTROL DRIVE CABLE ASSY.



PITCH CONTROL DRIVE CABLE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	23036	GEAR, PITCH CONTROL	2	
2	9195	SCREW, SHS M5-0.8 X 10 CONE PT PA	TCH 4	
3	9196	O-RING, SIZE 2-118 BUNA-N 70	2	
4	23295	CLAMP, PITCH CABLE	4	
5	37325	SCREW, SHC M5-0.8 X 30MM	4	
6	23849	DRIVE CABLE, PITCH CONTROL	1	
7	23615	CLAMP, PITCH CABLE, THREADED	2	
8	32802	SPACER, PITCH CONTROL	2	

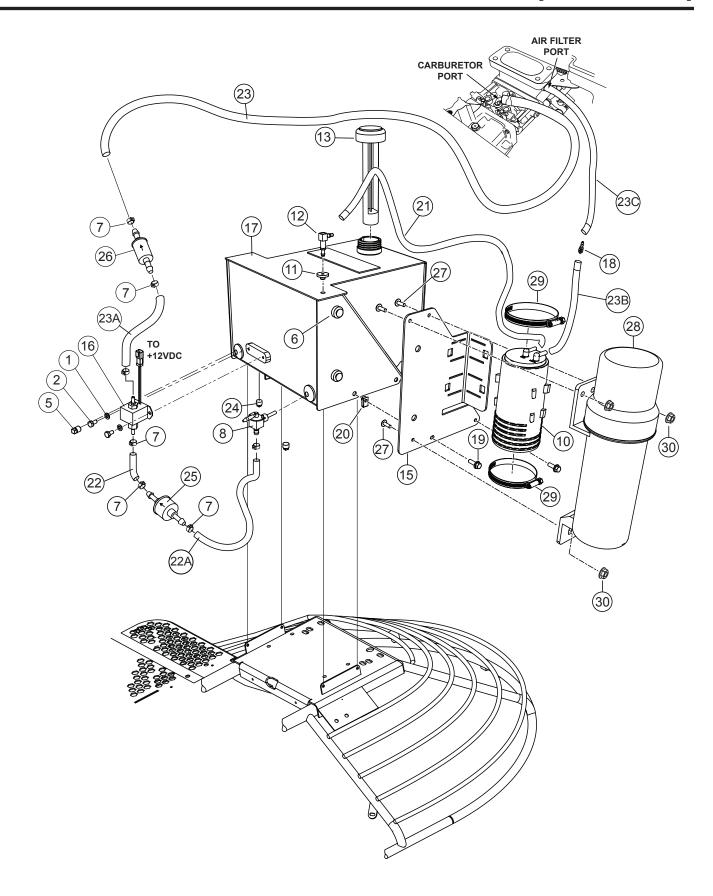
FUEL TANK ASSY. (5.5 GALLON)



FUEL TANK ASSY. (5.5 GALLON)

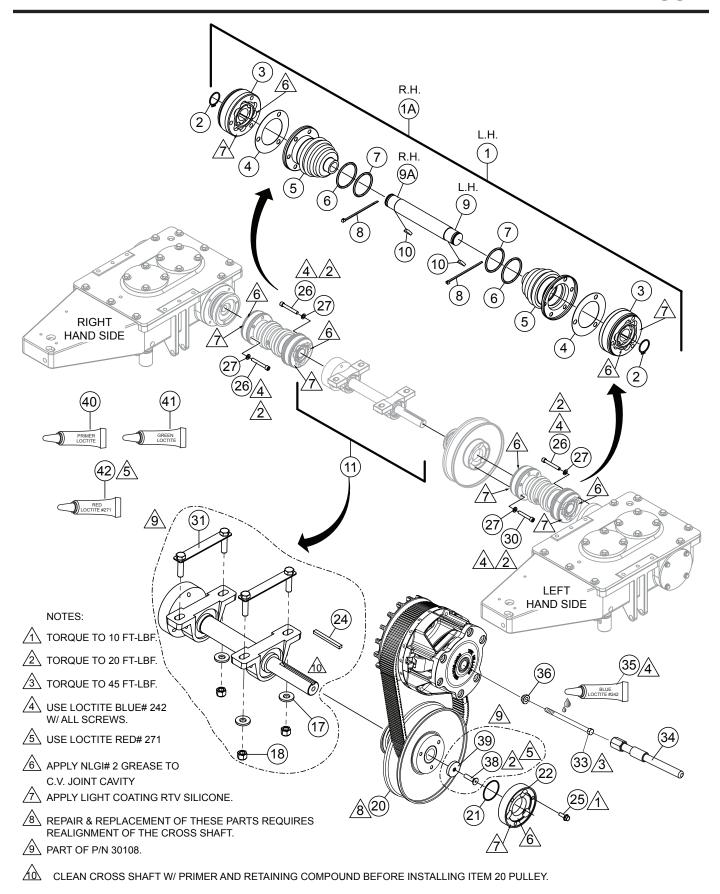
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	0181 B	WASHER, LOCK 1/4" MED	2	ILLMATIKO
2	1579	SCREW, HHC 1/4"-20 X 1/2"	2	
3	12277	CLAMP, HOSE WORM, #36, 1-13/16" X 2-3/4"	2	
5	16185	FITTING, PLUG 1/4"MP SQ HD	1	
6	21597	BUMPER,STEM 1.0"D X .5S X .31	2	
7	22067	CLAMP, STEPLESS EAR 1/4" HOSE	7	
8	22081	SHUTOFF VALVE, 1/4" NPT, 1/4" HOSE	1	
10	23505	CANISTER, CARBON, 390CC	1	
11	23507	GROMMET, ROLL OVER VALVE	2	
12	12007	FITTING, 90 4SBARB X 6-4SBARB THRU TANK	1	
13	23514	CAP, RATCHET W/GAUGE "GASOLINE" (10-1/2")	1	
14	23557	PLUG, FUEL TANK VENT	1	
15	23593	BRACKET, CHARCOAL CANISTER	1	
16	23873	FUEL PUMP ASSY.	1	
17	23940-SK	TANK, GAS (SERVICE)	1	
18	23966	FITTING, STR, BARB 5/16" TO 3/16" REDUCER	1	
19	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	4	
20	11534	NUT, "U" TYPE, 1/4"-20	4	
21	60004	HOSE, FUEL .187" DIA, 12" LENGTH	1	1PC=1FT
22	60013	HOSE, FUEL .250" DIA., 5-1/4" LENGTH	1	1PC=1FT
22A	60013	HOSE, FUEL .250" DIA., 7" LENGTH	11	1PC=1FT
23	60028	HOSE, FUEL .312" DIA., 17-1/2" LENGTH	2	1PC=1FT
23A	60028	HOSE, FUEL .312" DIA., 3-1/2" LENGTH		
23B	60028	HOSE, FUEL .312" DIA., 12" LENGTH HOSE, FUEL .187" DIA., 24" LENGTH	1	1PC=1FT
23C	60004	HOSE, FUEL .187" DIA., 24" LENGTH	2	1PC=1FT
24	911329	FITTING, PLUG 3/8" MP MAGNET	1	
25	691035	FILTER, FUEL, 40 MICRON	1	
26	845125	FILTER, FUEL, 20 MICRON	1	

FUEL TANK ASSY. (7.5 GALLON)



FUEL TANK ASSY. (7.5 GALLON)

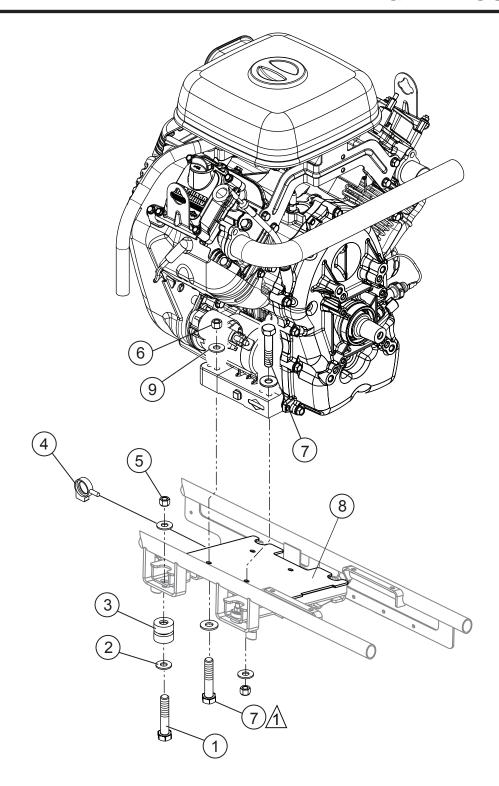
NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	0181 B	WASHER, LOCK 1/4" MED	2	
2	1579	SCREW, HHC 1/4"-20 X 1/2"	2	
5	16185	FITTING, PLUG 1/4"MP SQ HD	1	
6	21597	BUMPER,STEM 1.0"D X .5S X .31	2	
7	22067	CLAMP, STEPLESS EAR 1/4" HOSE	5	
8	22081	SHUTOFF VALVE, 1/4" NPT, 1/4" HOSE	1	
10	23506	CANISTER, CARBON, 800CC	1	
11	23507	GROMMET, ROLL OVER VALVE	1	
12	12007	FITTING, 90 4SBARB X 6-4SBARB THRU TANK	1	
13	23514	CAP, RATCHET W/GAUGE "GASOLINE" (10-1/2")	1	
15	32679	BRACKET, CHARCOAL CANISTER	1	
16	23873	FUEL PUMP ASSY.	1	
17	32709-SK	FUEL TANK, ASSY., 7.5 GALLON	1	
18	23966	FITTING, STR, BARB 5/16" TO 3/16" REDUCER	1	
19	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	4	
20	11534	NUT, "U" TYPE, 1/4"-20	4	
21	60004	HOSE, FUEL .1875" DIA., 5.6 FEET LENGTH	6	1PC=1FT
22	60013	HOSE, FUEL .250" DIA., 6" LENGTH	1	1PC=1FT
22A	60013	HOSE, FUEL .250" DIA., 5" LENGTH	1	1PC=1FT
23	60028	HOSE, FUEL .312" DIA., 17-1/2" LENGTH	2	1PC=1FT
23A	60013	HOSE. FUEL .250" DIA 8" LENGTH	1	1PC=1FT
23B	60028	HOSE, FUEL .312" DIA., 3.5 FEET LENGTH	4	1PC=1FT
23C	60004	HOSE, FUEL .187" DIA., 24" LENGTH	22	1PC=1FT
24	911329	FITTING, PLUG 3/8"MP MAGNET	1	
25	691035	FILTER, FUEL, 40 MICRON	1	
26	845125	FILTER, FUEL, 20 MICRON	1	
27	12287	SCREW, THP, 1/4"-20 X 3/4 SS	3	
28	23297	MANUAL HOLDER	1	
29	23794	CLAMP, HOSE WORM, #64, 3-9/2" TO 4-1/2"	2	
30	49070	NUT, FLANGED, 1/4"-20 SERRATED PLTD	3	



DRIVE ASSY.

NO.	PART NO.	PART NAME CV JOINT ASSY., LHCV JOINT ASSY., RH	QTY.	REMARKS
1	23477	CV JOINT ASSY., LH	1	INCLUDES ITEMS W/@
1A	23922	CV JOINT ASSY, RH	1	INCLUDES ITEMS W/\$
2@\$	2090	SNAP RING, TRUARC#5100-106 1,062 DIA, X,056	2	
3@\$	392052	JOINT, C.V. GASKET, C.V. JOINT BOOT RIDERS BOOT ASSY, C.V. JOINT RIDERS	4	INCLUDES ITEMS W/^
4@\$^	11108	GASKET, C.V. JOINT BOOT RIDERS	2	
5@\$^	2259	BOOT ASSY, C.V. JOINT RIDERS	2	INCLUDES ITEMS W/#
6@#\$^	22219	O-RING, SIZE 2-228N-90 2.25 DIA. X .125	2	
7@#\$^	22220	O-RING, SIZE 2-225N-90 1.875 DIA. X .125	2	
8@\$	1662			
9@		TIE, CABLE TY-RAP BLACK SHAFT, C.V. JOINT 7.44 LGSHAFT, C.V. JOINT 10.00 LG	1	MUST ORDER P/N 23477
9A\$		SHAFT, C.V. JOINT 10.00 LG	1	MUST ORDER P/N 23922
10@\$	0126	KEY, WOODRUFF #606 3/16" X 3/4" (#9) DRIVE, CROSS SHAFT ASSY	2	
11	30108	DRIVE, CROSS SHAFT ASSY	1	INCLUDES ITEMS W/%
17%	13351	WASHER, FLAT 3/8"	4	
18%	10133	NUT, NYLOC 3/8"-16	4	
20	23363-2S	PULLEY, CVT DRIVEN HILLIARD	1	
21	20116	O-RING, SIZE-031 BUNA-N	1	
22	23433	COUPLER, DRIVEN CCVT	1	
24%	20363	KEY, STEEL .188 X .250 X 2.5	1	
25	9165	SCREW, HHFS 1/4"-28 X 3/4" GRD 5 PATCH	3	
26	2186	SCREW, SHC 5/16"-16 X 2-1/4" PLTD	9	
27	0161 C	WASHER, LOCK, 5/16" MED	12	
30	0243	SCREW, SHC 5/16"-18 X 1-3/4"	3	
31%	20186	PLATE, BEARING MOUNT	2	
33	23377	SCREW, HHC 7/16"-20 X 6.5" GRD 8	1	
34	23678	PULLER, HILLIARD CVT	1	
35	1477	LOCTITE, BLUE #242, 0.5CC BOTTLE	AR	
36	23369	WASHER,STEP 7/16"	1	
38%	30107	SCREW, FHCS 3/8"-16 X 1-1/4" LH THREAD	1	
39%	30110	SPACER, CSK Ø 1.375" X .391" X .281"	1	
40	32441	PRIMER, LOCTITE	AR	
41	32434	COMPOUND, RETAINING 1/2ML	AR	
42	19379-014	LOCTITE, RED #271	AR	

ENGINE MOUNTING ASSY.



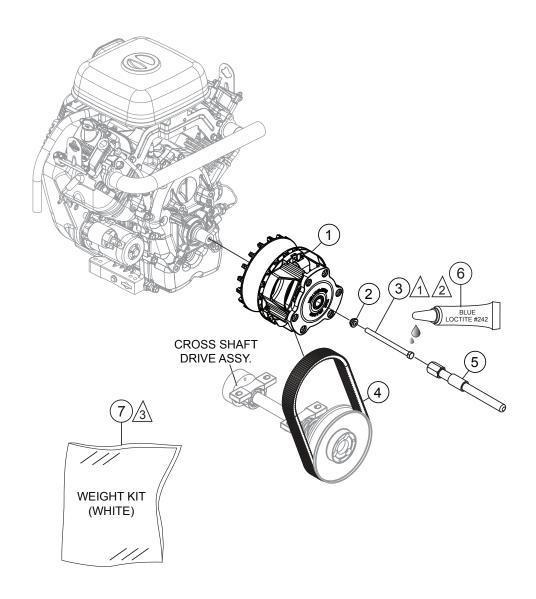
NOTES:



ENGINE MOUNTING ASSY.

QTY. REMARKS 4 8 4 1 4

ENGINE CLUTCH ASSY.



NOTES:

USE LOCTITE BLUE #242.

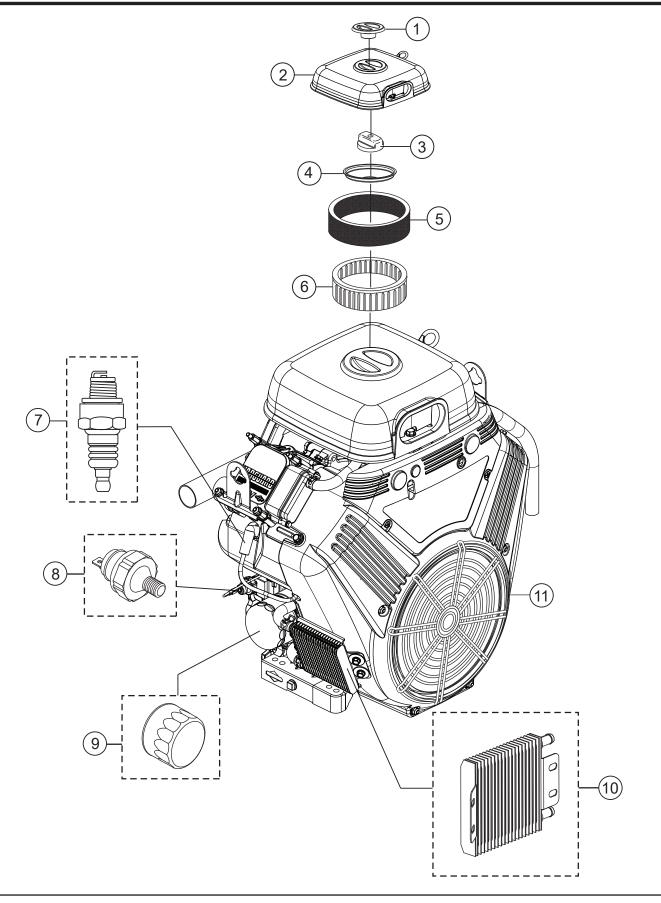
TORQUE TO 45 FT-LBS.

USE P/N 32450 TO REPLACE YELLOW CLUTCH WEIGHTS.

ENGINE CLUTCH ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	32449	CLUTCH, CVT DRIVE W/TAPER-HIL	1	
2	23369	WASHER, STEP 7/16"	1	
3	23377	SCREW, HHC 7/16"-20 X 6.5" GRD 8	1	
4	23365	BELT, CVT MULTI-CLUTCH	1	
5	23678	PULLER, HILLIARD CVT	1	
6	1477	LOCTITE, BLUE #242, 0.5CC BOTTLE	1	
7	32450	WEIGHT KIT, WHITE	1	REPLACES YELLOW WEIGHTS

ENGINE SERVICE PARTS

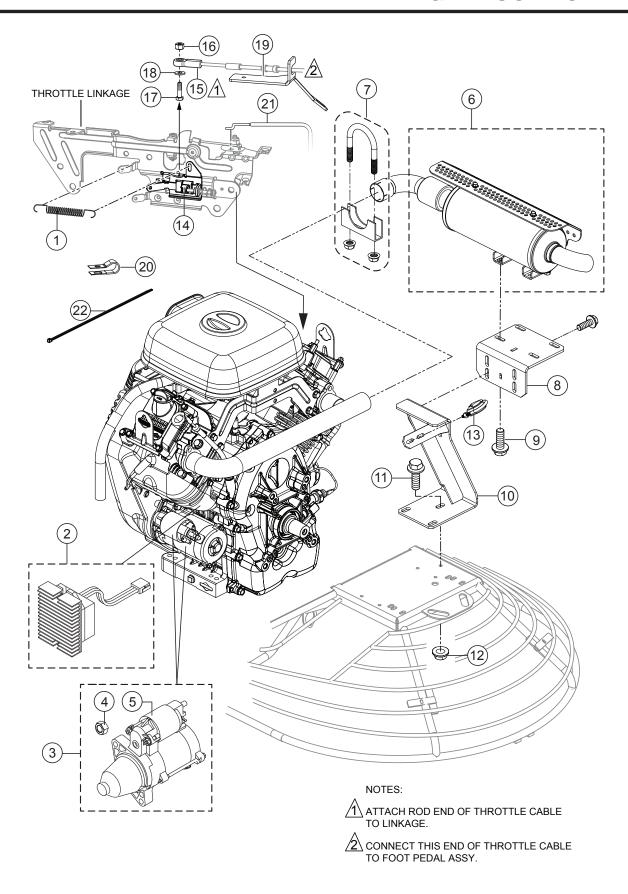


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ENGINE SERVICE PARTS

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	841846	KNOB, AIR CLEANER	1	
2	841847	COVER, AIR CLEANER	1	
3	846431	KNOB, AIR CLEANER COVER	1	REPLACES P/N 844618
4	844932	RETAINER, AIR FILTER	1	REPLACES P/N 841850
5	692519	FILTER, AIR CLEANER CARTRIDGE	1	
6	692520	FILTER, PRE AIR CLEANER	1	
7	Q16PRU11	SPARK PLUG (RC12YC)	2	REPLACES P/N 491055S
8	841281	SWITCH, OIL PRESSURE	1	
9	842921	FILTER, OIL	1	
10	841501	OIL COOLER	1	
11	23911-S	ENGINE, VANGUARD, 35HP, AIR COOLED	1	

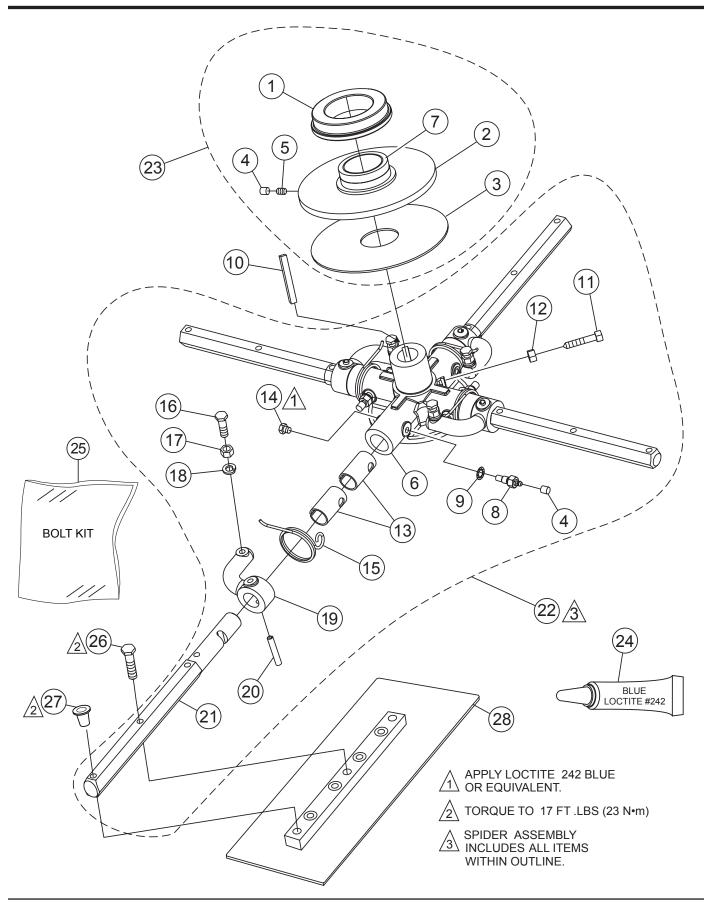
ENGINE COMPONENTS



ENGINE COMPONENTS

<u>NO.</u>	<u>PART NO.</u> 32528	PART NAME SPRING, EXT380D X 2.0L X .038ZP	<u>QTY.</u>	<u>REMARKS</u>
2	841170	REGULATOR	1	REPLACES P/N 691573
3	845760	STARTER MOTOR	1	INCLUDES ITEMS W/@
4@	845758	NUT	1	
5@	825418	SOLENOID-STARTER	1	
6	32560	MUFFLER, REAR MOUNT	1	
7	10855	CLAMP, 1-1/2" MUFFLER	1	
8	32741	MOUNT, MUFFLER-TOP	1	
9	36720	SCREW, HHFS 5/16" X 3/4" GRD 5	8	
10	32739	MOUNT, MUFFLER-BOTTOM	1	
11	32476	SCREW, HHF 3/8"-16 X 1-1/4" GRD 8	1	
12	21781	NUT, HFS 3/8"-16	1	
13	32603	CLAMP, CUSHIONED U-BOLT 1.00" TUBE	1	
14	30083	SLIDER, THROTTLE, B&S 35HP ENGINE	1	
15	2153	ROD END	1	
16	32526	NUT, 10-32 FLEX LOCK-CAD FINISH	1	
17	32527	SCREW, HHC 10-32 X 3/4" SS	1	
18	2203	WASHER, FLAT SAE #10	1	
19	32498	BRACKET, THROTTLE	1	
20	8126	CLAMP, HOSE 1/2" LOOP X .25 HOLE	1	
21	11029	CABLE, CHOKE MECHANICAL RIDER 60"	1	
22	1662	TIE WRAP, 11.02"L 50# UL, BLACK	1	

SPIDER ASSY. (LEFT)(4-BLADE)

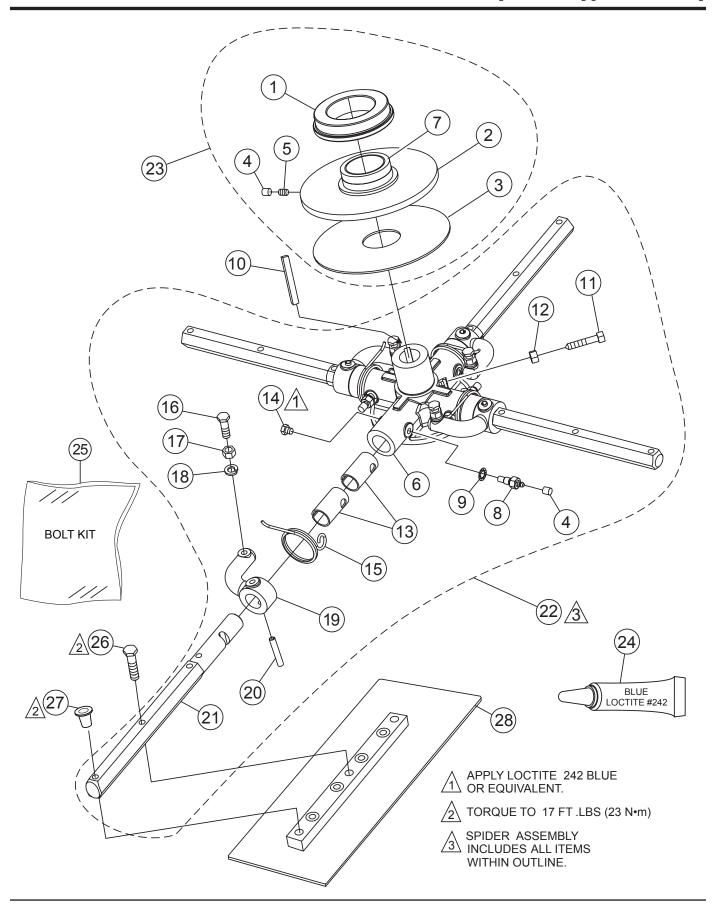


PAGE 36 — HHNG5 RIDE-ON TROWEL• PARTS MANUAL — REV. #7 (03/07/18)

SPIDER ASSY. (LEFT)(4-BLADE)

NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	12779	BEARING, THRUST 6017-24S W/FLNG	1	
2#	11431	THRUST COLLAR W/BUSHING	1	INCLUDES ITEMS W/\$
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	5	
5#	2621	FITTING, GREASE ZERK STR 1/4"-28	1	
6@	11987X-SK	SPIDER PLATE, SERVICE KIT 4-BLADE MODIFIED	1	
7#\$	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	1322	SCREW, ARM RETAINING	4	
9@	1875	WASHER, INT. SHKP, 3/8"	4	
10	12687	KEY, 3/8" SQ X 2"	1	
11@	12097	SCREW, SQHS 3/8-16 X 1-3/4" CONE GRD 8 PT'D	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	8	
14@	11602	SCREW, HHC 3/8"-16 X 1/4"	4	
15@	11595	SPRING, LS H ARM RETURN LARGE BOSS	4	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16 SPCL	4	
17@	1876	NUT, HEX JAM 3/8"-16 CLASS 2B	4	
18@	0166 A	WASHER, LOCK, 3/8" MED.	4	
19@	11903-1	LEVER, TROWEL ARM, LEFT SILVER	4	
20@	9006	PIN, ROLL 5/16" X 2" NO PLATE	4	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	4	
22	12934X	SPIDER T/COLLAR ASSY., 4-BLADE, L.S	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLAR ASSY	1	INCLUDES ITEMS W/#
24	1477	LOCTITE #242. BLUE5CC. BOTTLE	AR	
25	23643	KIT, BOLT SAE BLADE	1	INCLUDES ITEMS W/%
26%	22174	SCREW, HHFS, 5/16"-18 X 1-3/4" GRD 5	34	
27%	1434	PLUG, BLADE	10	
28		PLUG, BLADE BLADE ASSEMBLY	4	CONTACT UNIT SALES
				DEPARTMENT

SPIDER ASSY. (RIGHT)(4-BLADE)

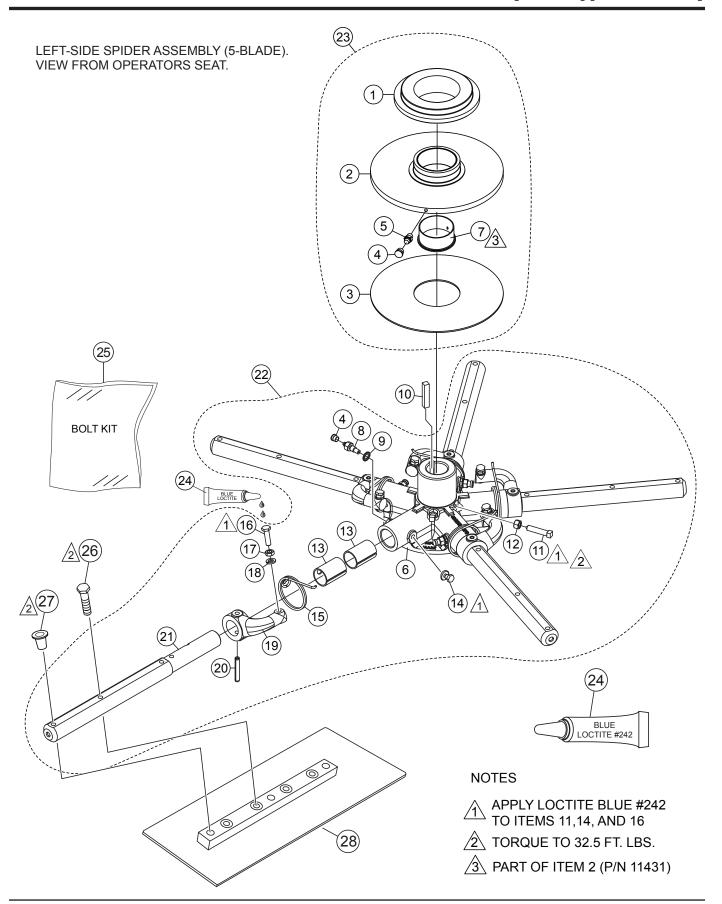


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SPIDER ASSY. (RIGHT)(4-BLADE)

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1#	12779	BEARING, THRUST 6017-24S W/FLNG	1	
2#	11431	BEARING, THRUST 6017-24S W/FLNG THRUST COLLAR W/BUSHING	1	INCLUDES ITEMS W/\$
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	5	
5#	2621	FITTING, GREASE ZERK STR 1/4"-28	1	
6@	11987X-SK	SPIDER PLATE, SERVICE KIT 4-BLADE MODIFIED	1	
7#\$	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	1322	SCREW, ARM RETAINING	4	
9@	1875	WASHER, INT. SHKP, 3/8"	4	
10	12687	KEY, 3/8" SQ X 2"	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8 PT'D	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	8	
14@	11602	SCREW, HHC 3/8"-16 X 1/4"	4	
15@	11594	SPRING, RS H ARM RETURN LARGE BOSS	4	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16 SPCL	4	
17@	1876	NUT, HEX JAM 3/8"-16 CLASS 2B	4	
18@	0166 A	WASHER, LOCK, 3/8" MED.	4	
19@	11904-1	LEVER, TROWEL ARM, RIGHT SILVER	4	
20@	9006	PIN, ROLL 5/16" X 2" NO PLATE	4	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	4	
22	12935X	SPIDER T/COLLAR ASSY., 4-BLADE, R.S	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLAR ASSY	1	INCLUDES ITEMS W/#
24	1477	LOCTITE, #242 BLUE KIT, BOLT SAE BLADE	AR	
25	23643	KIT, BOLT SAE BLADE	1	INCLUDES ITEMS W/%
26%	22174	SCREW, HHFS, 5/16"-18 X 1-3/4" GRD 5	34	
27%	1434	PLUG, BLADE BLADE ASSEMBLY	10	
28		BLADE ASSEMBLY	4	CONTACT UNIT SALES DEPARTMENT

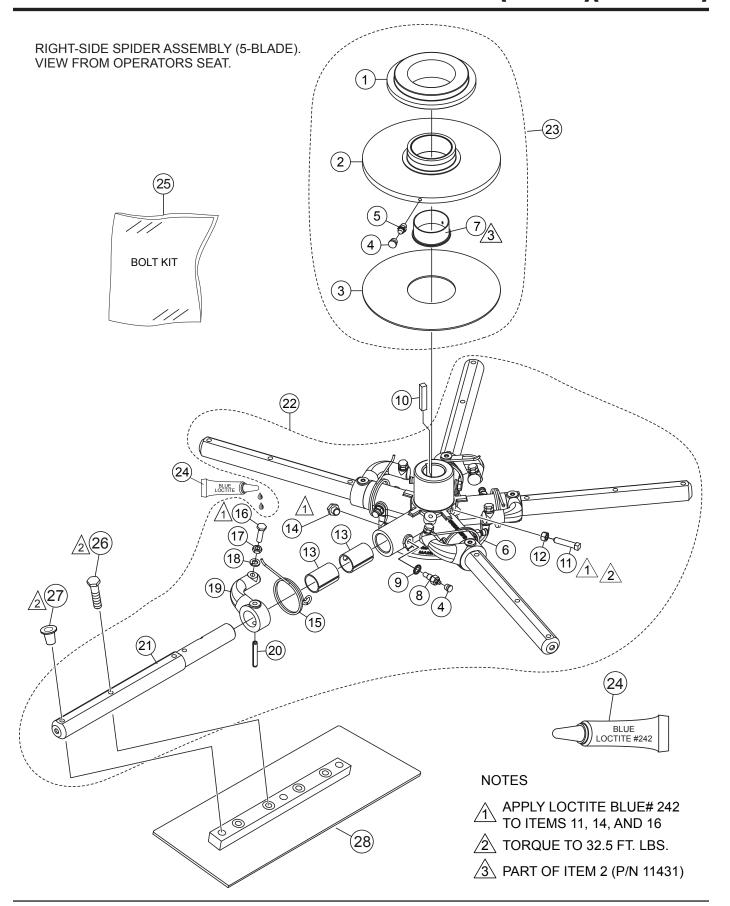
SPIDER ASSY. (LEFT)(5-BLADE)



SPIDER ASSY. (LEFT)(5-BLADE)

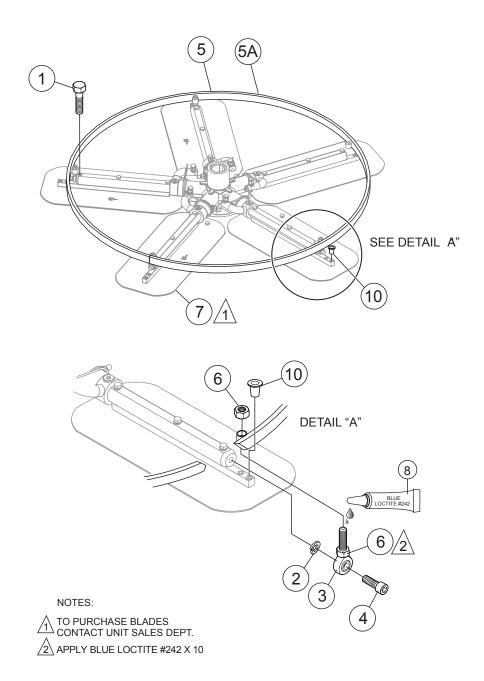
NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	12779	BEARING, THRUST 6017-24S W/FLNG	1	
2#	11431	THRUST COLLAR W/BUSHING	1	INCLUDES ITEMS W/\$
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	6	
5#	2621	FITTING, GREASE ZERK STR 1/4"-28	1	
6@	21208	SPIDER KIT, 5-BLADE SERVICE KIT	1	
7#\$	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	A5978	SCREW, ARM RETAINING	5	
9@	1875	WASHER, INT. SHKP, 3/8"	5	
10	12687	KEY, 3/8" SQ X 2"	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8 PT'D	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	10	
14@	11602	SCREW, HHC 3/8"-16 X 1/4"	5	
15@	9111	SPRING, LS H ARM RETURN STD BOSS	5	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16 SPCL	5	
17@	1876	NUT, HEX JAM 3/8"-16 CLASS 2B	5	
18@	0166 A	WASHER, LOCK, 3/8" MED.	5	
19@	11903-1	LEVER , TROWEL ARM, LEFT SILVER	5	
20@	9006	PIN, ROLL 5/16" X 2" NO PLATE	5	
21@	2829-1	PIN, ROLL 5/16" X 2" NO PLATE ARM, TROWEL HD EXTENDED, SILVER SPIDER ASSY. 5-BLADE L.S. 1-1/2"	5	
22	12932			
23	20938	THRUST COLLAR ASSY	1	INCLUDES ITEMS W/#
24	1477	LOCTITE #242, BLUE, .5CC BOTTLE	AR	
25	23643	KIT, BOLT SAE BLADE	1	INCLUDES ITEMS W/%
26%	22174	SCREW, HHFS, 5/16"-18 X 1-3/4" GRD 5	34	
27%	1434	PLUG, BLADE	10	
28		PLUG, BLADE BLADE ASSEMBLY	5	CONTACT UNIT SALES
				DEPARTMENT

SPIDER ASSY. (RIGHT)(5-BLADE)



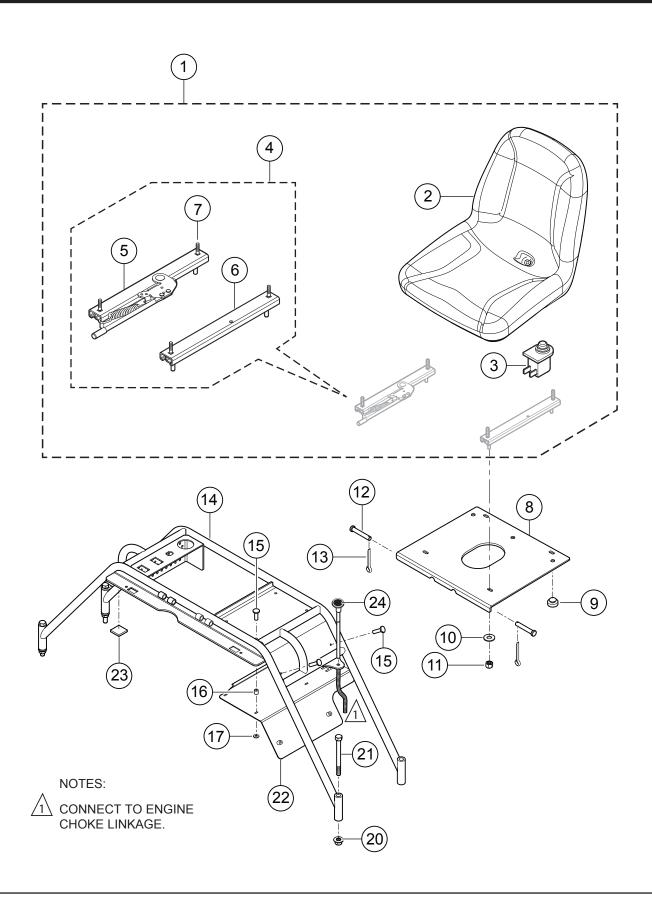
SPIDER ASSY. (RIGHT)(5-BLADE)

NO.	PART NO.	PART NAME	QTY.	REMARKS
1#	12779	BEARING, THRUST 6017-24S W/FLNG	1	
2#	11431	THRUST COLLAR W/BUSHING	1	INCLUDES ITEMS W/\$
3#	11419	PLATE, WEAR	1	
4#@	1162 A	CAP, GREASE ZERK, #2 YELLOW	6	
5#	2621	FITTING, GREASE ZERK STR 1/4"-28	1	
6@	21208	SPIDER KIT, 5-BLADE, SERVICE KIT	1	
7#\$	12316	BUSHING, THRUST COLLAR W/ HOLE	1	
8@	A5978	SCREW, ARM RETAINING	5	
9@	1875	WASHER, INT. SHKP, 3/8"	5	
10	12687	KEY, 3/8" SQ X 2"	1	
11@	12097	SCREW, SQHS 3/8"-16 X 1-3/4" CONE GRD 8 PT'D	2	
12@	1456	NUT, HEX FINISH 3/8"-16	2	
13@	11039	BUSHING, TROWEL LARGE ARM	10	
14@	11602	SCREW, HHC 3/8"-16 X 1/4"	5	
15@	11594	SPRING, RS H ARM RETURN STD BOSS	5	
16@	0164 B	SCREW, HHC ROUNDED 3/8"-16 SPCL	5	
17@	1876	NUT, HEX JAM 3/8"-16 CLASS 2B	5	
18@	0166 A	WASHER, LOCK, 3/8" MED.	5	
19@	11904-1	LEVER, TROWEL ARM, RIGHT SILVER	5	
20@	9006	PIN, ROLL 5/16" X 2" NO PLATE	5	
21@	2829-1	ARM, TROWEL HD EXTENDED, SILVER	5	
22	12933	SPIDER ASSY. 5-BLADE R.S. 1-1/2"	1	INCLUDES ITEMS W/@
23	20938	THRUST COLLAR ASSY	1	INCLUDES ITEMS W/#
24	1477	LOCTITE, #242 BLUE, .5CC, BOTTLE	AR	
25	23643	KIT, BOLT SAE BLADE	1	INCLUDES ITEMS W/%
26%	22174	SCREW, HHFS, 5/16"-18 X 1-3/4" GRD 5	34	
27%	1434			
28		PLUG, BLADE BLADE ASSEMBLY	5	CONTACT UNIT SALES
				DEPARTMENT



STABILIZER RING ASSY.

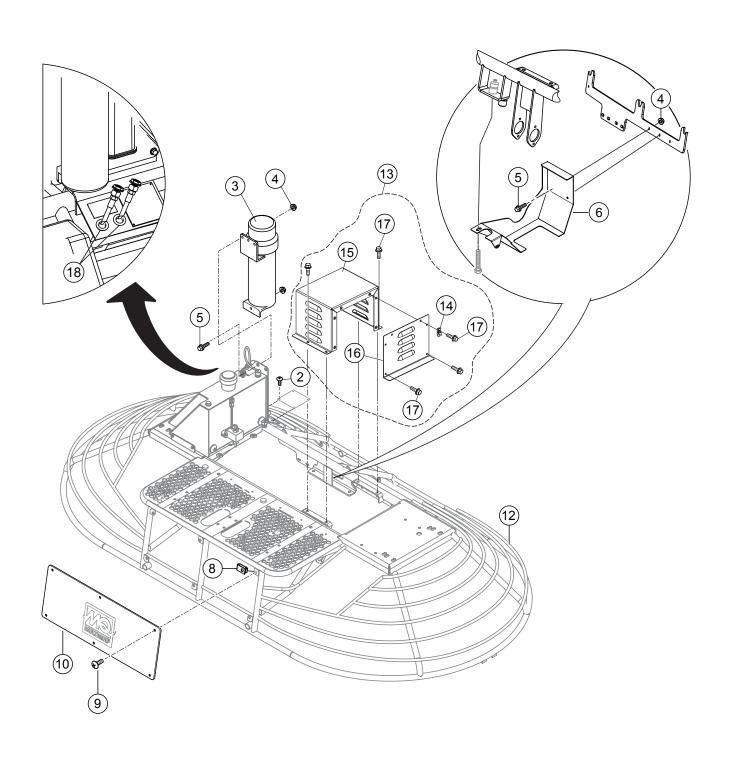
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	22174	SCREW, HHFS 5/16"-18 X 1-3/4" GRD 5	30	
2	0161 C	LOCK WASHER, FLAT SAE 5/16" MED.	10	
3	1723	ROD END 5/16"-24 MALE RH	10	
4	1237	SCREW, SHC 5/16"-18 X 7/8" NYLOC	10	
5	12095	RING, STABILIZER	2	5-BLADE ONLY
5A	9148	RING, STABILIZER, EXT ARM	2	4-BLADE ONLY
6	6014 C	NUT, HEX FINISH 5/16"-24	20	
7		BLADE ASSEMBLY	10	CONTACT UNIT SALES
			-	DEPARTMENT
8	1477	LOCTITE, BLUE #242, BLUE, .5CC BOTTLE	AR	
10	1434	PLUG, BLADE	10	



SEAT AND FRAME ASSY.

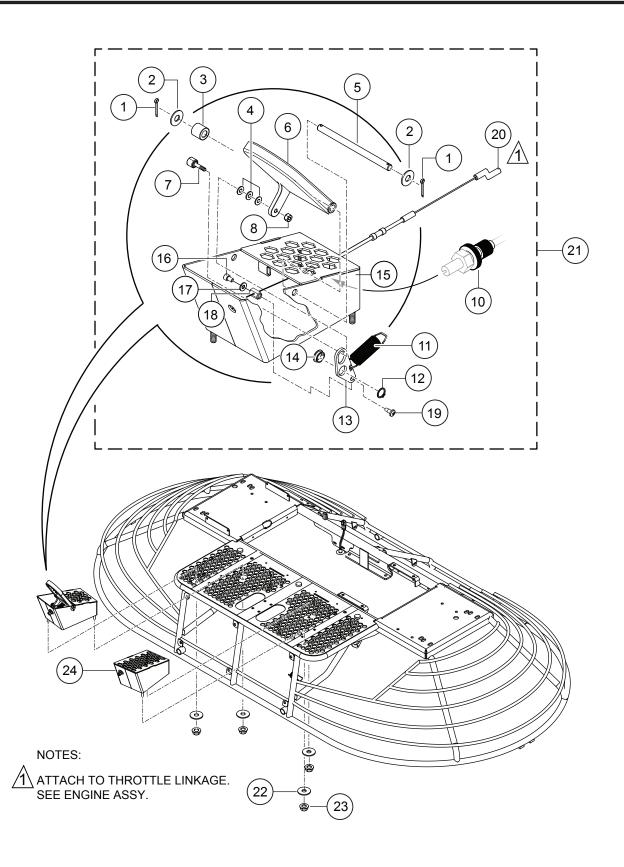
<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1 2@	21861 21860	SEAT, MICHIGAN ADJUSTABLE W/O ARMS SEAT, MICHIGAN, BASIC	1 1	INCLUDES ITEMS W/@
3@	21870	SWITCH, KILL	1	
4@	21865	SEAT ADJUSTER KIT	1	INCLUDES ITEMS W/%
5@%		SEAT ADJUSTER, RH	1	
6@%		SEAT ADJUSTER, LH	1	
7@%		SCREW, HHC 5/16"-18 X 1/2"	4	
8	11472	SEAT PLATE	1	
9	21597	BUMPER, STEM 1.0"D X .5S X .31	3	
10	0300 B	WASHER, FLAT SAE 5/16"	4	
11	5283	NUT, NYLOC 5/16"-18	4	
12	8081	PIN, CLEVIS 1/2" X 2-3/4"	2	
13	0183	PIN, COTTER 1/8"D X 1-1/4"	2	
14	23932	FRAME, SEAT	1	
15	30059	RIVET, POP BH .187 X .626750 AL/AL	6	
16	30048	SPACER, .50 OD X .206 ID	6	
17	29342	WASHER, 3/16" POP-RIVET BACKUP SS	6	
20	26328	NUT, FLANGED 1/2"-13 SERRATED PLTD	2	
21	913222	SCREW, HHC 1/2"-13 X 4-3/4"	2	
22	30046	HEAT SHIELD, SS, SEAT FRAME	 	
23	23976	MOUNTING BASE, ADHESIVE TIE WRAP	 	
24	11029	CABLE, CHOKE 60"	1	

FRAME AND COMPONENTS ASSY.



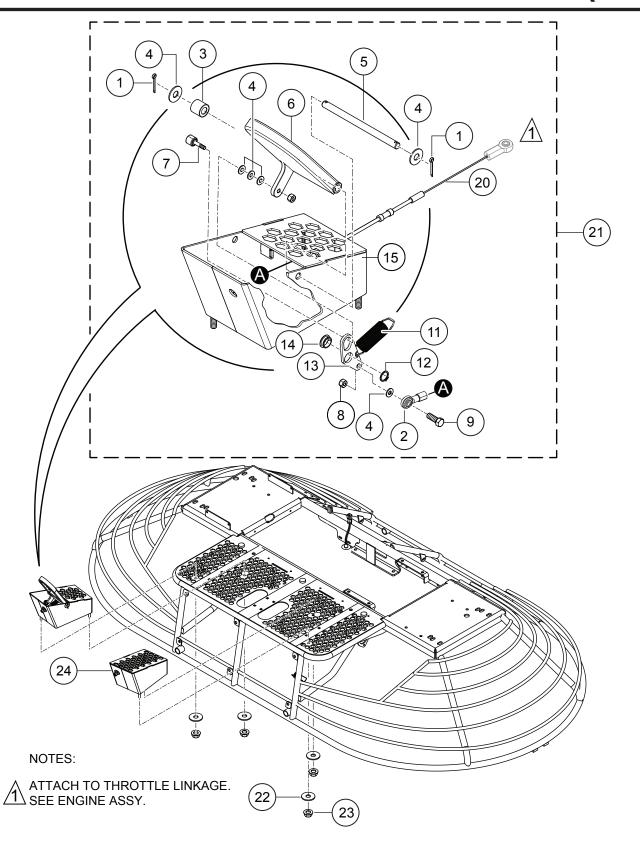
FRAME AND COMPONENTS ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
2	4014	SCREW, 2-3/16" P-K TYPE U-DRIVE	4	
3	23297	MANUAL HOLDER	1	
4	49070	NUT, FLANGED 1/4"-20 SERRATED PLTD	5	
5	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	5	
6	20956	PAN, SPLASH LOWER	1	
8	11534	NUT, "U" TYPE, 1/4"-20	6	
9	12287	SCREW, THP 1/4"-20 X 3/4" SS	6	
10	20946	PANEL, FRONT BODY	1	
12	23910	FRAME, MAIN	1	
13	23888	GUARD ASSY	1	INCLUDES ITEMS W/@
14@	8126	CLAMP, HOSE 1/2"	1	
15@	23937	GUARD RIVNUT ASSY., CLUTCH	1	
16@	23938	COVER, CLUTCH GUARD	1	
17@	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	10	
18	23943	TUBING, REMOTE GREASE LINE, W/ FITTINGS	2	



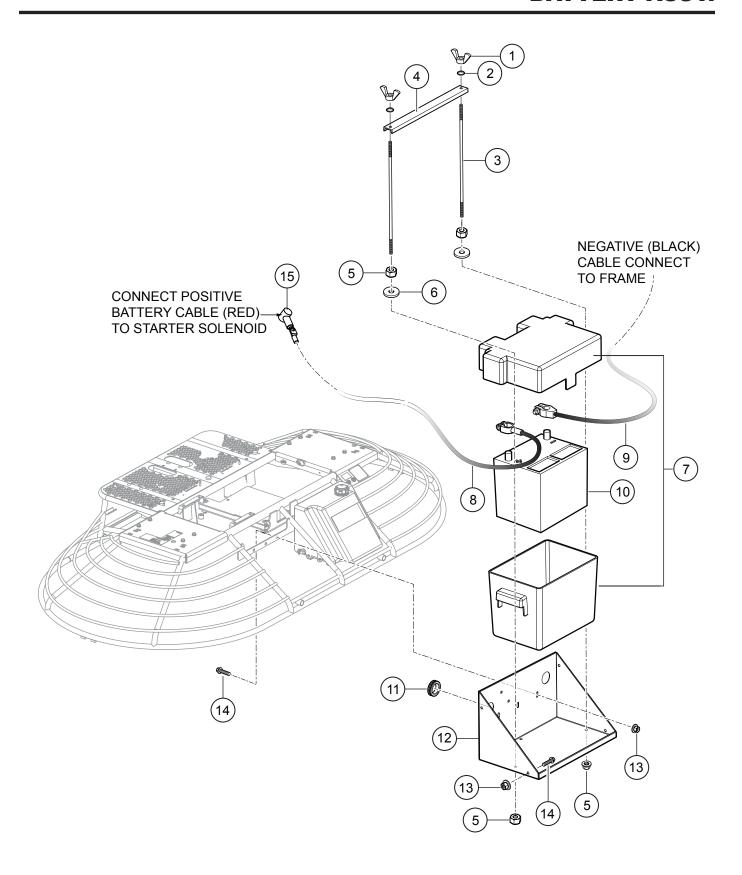
THROTTLE ASSY. (OLD)

NO.	PART NO.	PART NAME	QTY.	REMARKS
1@	6014 B	PIN, COTTER 3/32" DIA. X 1.00"	2	
2@	10136	WASHER, FLAT SAE 3/8"	2	
3@	23596	SPACER, PEDAL	1	
4@	2203	WASHER, FLAT, #10	3	
5@	2772	PIN, ACCELERATOR PEDAL	1	
6@	23591	PEDAL, ACCELERATOR	1	
7@	460018	CAM ROLLER	1	
8@	10019	NUT, NYLOC 10-32	1	
10@	21824	ADJUSTER W/ THUMB WHEEL	1	
11@	37527	,	1	
12@	1737	SNAP RING, EXTERNAL, 1/2" DIA.	1	
13@	23473	LINKAGE, ACCELERATOR PEDAL	1	
14@	38368	BUSHING, SPLIT FLANGED, 1/2" ID.	1	
15@	23592	FOOT RISER W/A, ACCELERATOR SIDE	1	
16@	30086	SCREW, HHC 10-32 X 3/8" SS	1	
17@	2203	WASHER, FLAT SAE #10	6	
18@	30082	STAND-OFF, THROTTLE CABLE	1	
19@	4788	SCREW, SHC 10-32 X 3/8" SS	1	
20@	23970	CABLE, THROTTLE	1	
21	23896	ACCELERATOR PEDAL, ASSY		INCLUDES ITEMS W/@
22	933213	WASHER, FENDER 5/16" X 1" ZINC	4	
23	49071	NUT, FLANGED 5/16"-18 SERRATED PLTD	4	
24	23568	FOOT RISER, LEFT SIDE	1	



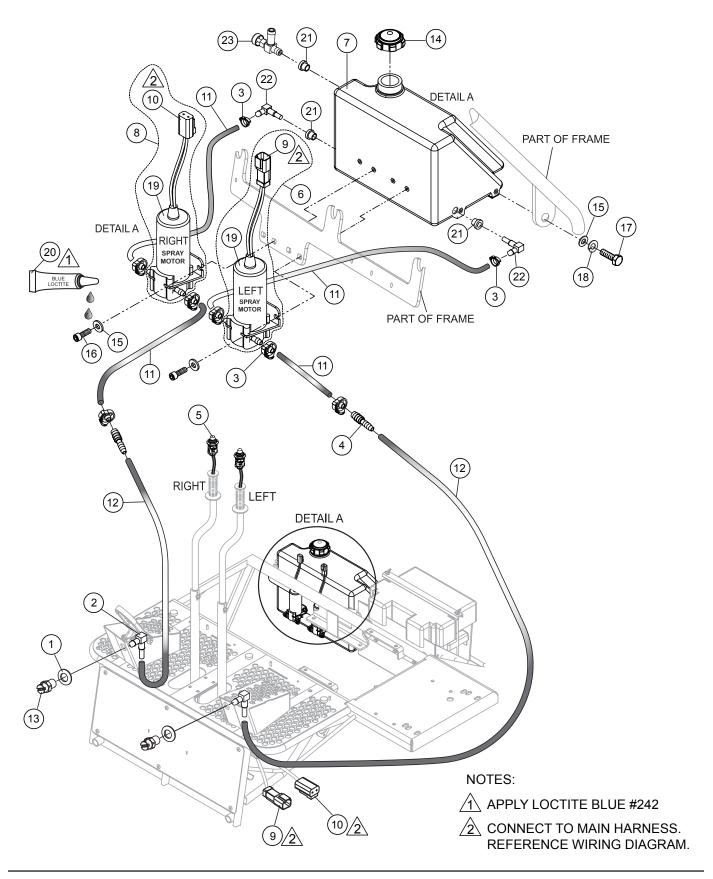
THROTTLE ASSY. (NEW)

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1@	6014 B	PIN, COTTER 3/32" DIA. X 1.00"	2	
2@	2153	ROD END	l 4	
3@	23596	SPACER, PEDAL	I	
4@	2203	WASHER, FLAT SAE #10	8	
5@	2772	PIN, ACCELERATOR PEDAL	1	
6@	23591	PEDAL, ACCELERATOR	1	
7@	460018	CAM ROLLER	1	
8@	32526	NUT, 10-32 FLEX LOCK	2	
9@	32527	SCREW, HHC 10-32 X 3/4" SS	1	
11@	32512	SPRING, EXT., 0.625" OD X 2.25" L X 0.64Z	1	
12@	1737	SNAP RING, EXTERNAL, 1/2" DIA.	1	
13@	23473	LINKAGE, ACCELERATOR PEDAL	1	
14@	38368	BUSHING, SPLIT FLANGED, 1/2" ID.	1	
15@	32552	FOOT RISER, ACCELERATOR SIDE	1	
20@	32510	CABLE, PUSH/PULL THROTTLE, 60"	1	
21	23896	ACCELERATOR PEDAL, ASSY	1	INCLUDES ITEMS W/@
22	933213	WASHER, FENDER 5/16" X 1" ZINC	4	
23	49071	NUT, FLANGED 5/16"-18 SERRATED PLTD	4	
24	23568	FOOT RISER, LEFT SIDE	1	



BATTERY ASSY.

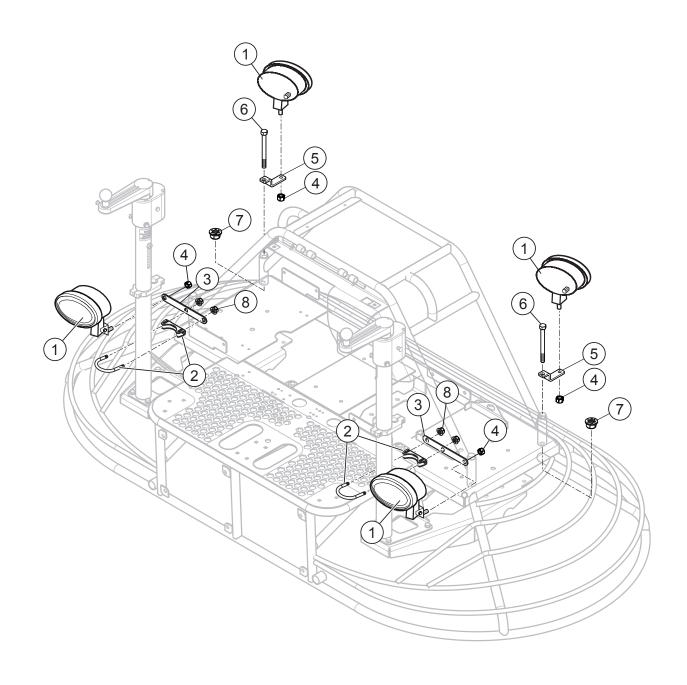
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	2509	NUT, WING 1/4"-20 PLATED	2	
2	10031	WASHER, EXT. SHKP, 1/4"	2	
3	11693	BOLT, BATTERY BRACKET	2	
4	11692	BRACKET, BATTERY BOX HOLD DOWN	1	
5	10024	NUT, NYLOC 1/4"-20	4	
6	0948	WASHER, FLAT SAE 1/4"	8	
7	10318	BATTERY BOX, GROUP 24	1	
8	19303	CABLE, BATTERY POS 4 GA X 48" POST	1	
9	10313	CABLE, BATTERY NEG 6 GA X 20" POST	1	
10	10315	BATTERY, WET 12V GR22	1	
11	13212	GROMMET, 1-1/4" ID.	1	
12	11362	BATTERY BOX	1	
13	49070	NUT, FLANGED 1/4"-20 SERRATED PLTD	5	
14	49048	SCREW, HHFS 1/4"-20 X 3/4" GRD 5	5	
15	2762	BOOT, TERMINAL	1	



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SPRAY ASSY.

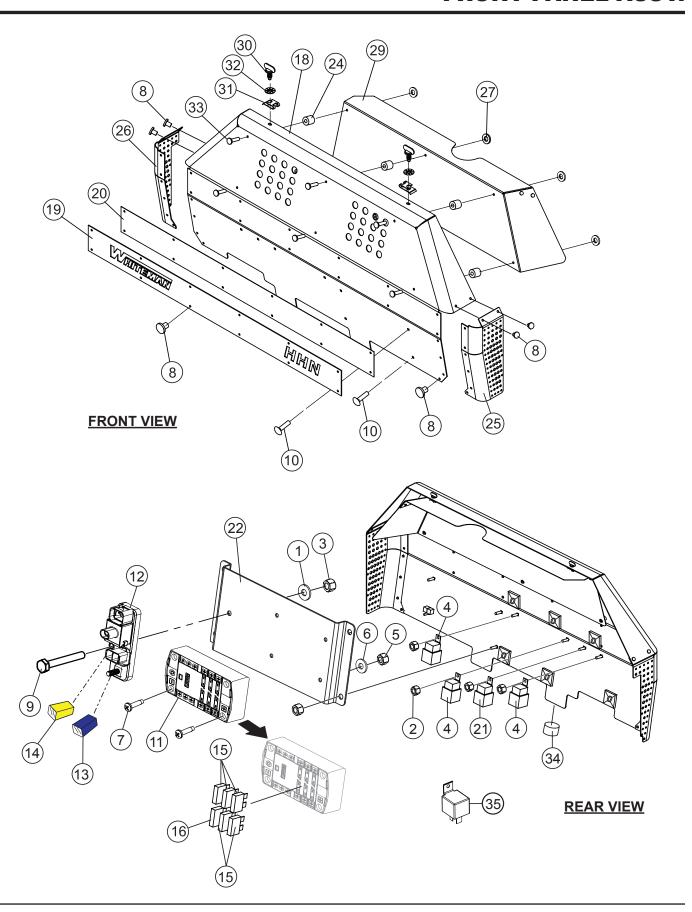
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	2898	WASHER, BONDED NEOPRENE 1 X 1/2"	2	
2	2912	FITTING, 90° 4BARB – 1/4" FP	2	
3	2918	CLAMP, HOSE, 475 - 536 ID.	6	
4	10022	FITTING, PLASTIC 6BARB-4BARB	2	
5	11430	SWITCH ASSY.	2	
6	23434	PUMP, MALE CONNECTOR	2	INCLUDES ITEMS W/@
7	12403	RETARDANT TANK 5 GALLON	1	
8	23971	PUMP, FEMALE CONNECTOR	1	INCLUDES ITEMS W/\$
9@	37402	CONNECTOR KIT, MALE	2	
10\$	37403	CONNECTOR KIT, FEMALE	2	
11	60002	HOSE, PVC CLEAR .375 ID. X .5 OD		
12	60001	HOSE, .375 OD. X .25 ID. CLEAR PVC	9	1PC=1FT
13	392292	NOZZLE, SPRAY	2	
14	2108	CAP, SPRAY TANK	1	
15	0948	WASHER, FLAT SAE 1/4"	8	
16	923203	SCREW, SHC 1/4"-20 X 3/4"	4	
17	0131 A	SCREW, HHC 1/4"-20 X 3/4"	2	
18	0181 B	WASHER, LOCK 1/4" MED.	2	
19\$@	12548	PUMP, SPRAY	2	
20	1477	LOCTITE #242, BLUE, .5CC, BOTTLE	1	
21	19633	BUSHING, RUBBER FUEL	3	
22	29677	FITTING, 90°	2	
23	19661	VALVE, SHUTOFF	1	



LIGHT ASSY.

<u>NO.</u> 1	PART NO. 22347	PART NAME LIGHT, HELLA BOTTOM MOUNT OVAL	QTY. 4	
1	32640	LIGHT, LED 20W OVAL	4	OLD STYLEINCLUDES ITEMS W/\$ NEW STYLE
2	2534	CLAMP, 1-3/4"	2	_
3	2531	BRACKET, LIGHT SIDE	2	
4\$		NUT	4	
5	22420	BRACKET, RIDER OP LIGHTS	2	
6	29017	SCREW, HHC 1/2"-13 X 5-1/2"	2	
7	26328	NUT, FLANGED 1/2"-13 SERRATED PLTD	2	
8@		NUT, FLANGE	4	

FRONT PANEL ASSY.

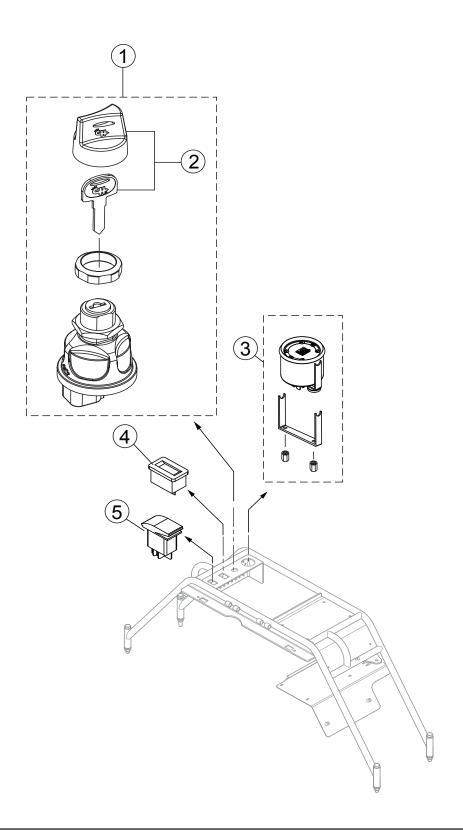


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FRONT PANEL ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	0948	WASHER, FLAT SAE 1/4"	1	
2	10019	NUT, NYLOC 10-32	8	
3	10024	NUT, NYLOC 1/4"-20	1	
4	12017	RELAY, KILL	3	
5	13287	NUT, NYLOC 8-32	4	
6	15173	WASHER, FLAT, #8	4	
7	15175	SCREW, PAN HEAD 8-32 X 3/4"	4	
8	19847	RIVET, POP, ALUM, 3/16" X 1/8"-1/4" GRIP	24	
9	20909	SCREW, HHC 1/4"-20 X 2"	1	
10	22131	BOLT, CARRIAGE 10-32 X 3/4" ZINC	8	
11	22426	BLOCK, TERMINAL FUSE	1	
12	22724	MODULE, POWER RELAY	1	
13	22725-200	FUSE, 20 AMP	1	
14	22725-600	FUSE, 60 AMP	1	
15	23284-100	FUSE, 10 AMP	5	
16	23284-300	FUSE, 30 AMP	1	
17	23908	HARNESS, FRONT PANEL	1	
18	23935	PANEL, FRONT	1	
19	23957	PANEL, "WHITEMAN"	1	
20	23958	PLATE, TRIM BACKING	1	
21	32594	RELAY, 80 AMP, 12VDC	1	
22	23974	MOUNT, FUSE BLOCK	1	
23	23976	MOUNTING BASE, ADHESIVE TIE WRAP	6	
24	23995	SPACER, .50 OD. X .206 ID.	6	
25	23997	PANEL, LEFT	1	
26	23999	PANEL, RIGHT	1	
27	29342	WASHER, 3/16" POP-RIVET BACKUP SS	6	
28	30037	CABLE, GROUND, RING TERMINAL	1	
29	30050	HEAT SHIELD ASSY., FRONT PANEL	1	
30	30055	SCREW, FAST LEAD, MED.	2	
31	30056	CLIP, FAST LEAD, MED.	2	
32	30057	WASHER, FAST LEAD SS, MED.	2	
33	30059	RIVET, POP BH .187 X .626750 AL/AL	6	
34	21597	BUMPER, STEM 1" DIA. X 1/2" S DIA. X 19/64" TK	2	
35	32597-SK	RELAY, HHN, SERVICE KIT, 80AMP	1	

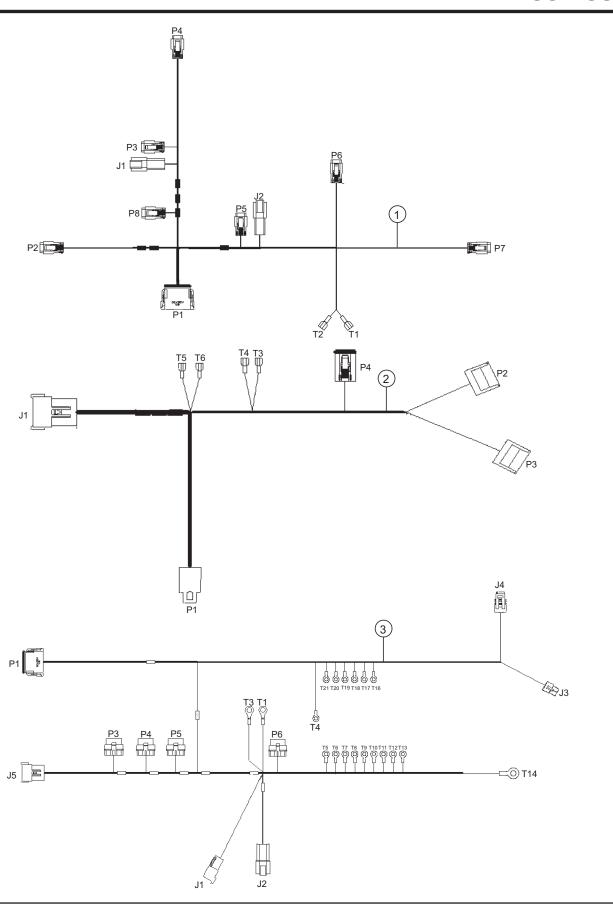
TOP RIGHT CONTROL PANEL ASSY.



TOP RIGHT CONTROL PANEL ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	23959	SWITCH, IGNITION W/ BOOT	1	INCLUDES ITEMS W/@
2@	23959-01	IGNITION KEY W/ BOOT	1	
3	22408	GAGE, MULTI-LOFA	4	
4	29640	HOUR METER, SENDEC RECT FLUSH MOUNT	1	
5	406000	SWITCH, ROCKER	1	

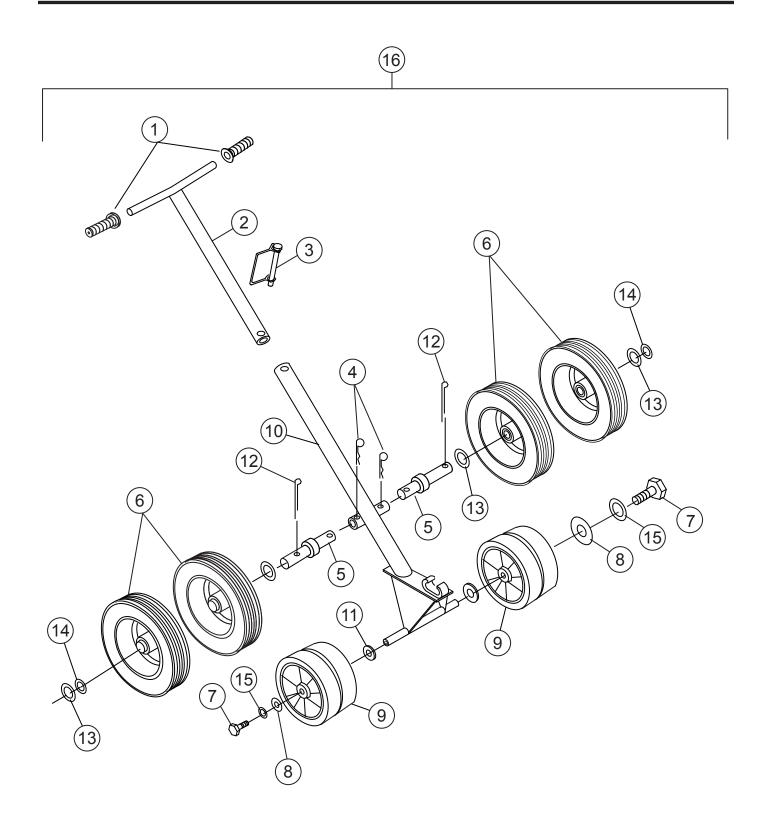
HARNESS ASSY.



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HARNESS ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	23906	HARNESS, MAIN FRAME	1	
2	23907	HARNESS, SEAT FRAME	1	
3	23908	HARNESS, FRONT PANEL	1	



E-Z MOVER AND LIFT HANDLE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1\$	22762	HAND GRIP	2	
2\$	2336	UPPER HANDLE	1	
3\$	QS1869	SNAP PIN	1	
4\$	7170	CLIP	4	
5\$	11684	DOLLY AXLE	2	
6\$	10440	WHEEL AND TIRE	4	
7\$	0655	SCREW, HHCS 5/16"-18 X 3/4"	2	
8\$	0300 B	FLAT WASHER 5/16"	2	
9\$	2364	WHEEL	2	
10\$	10445	FRAME	1	
11\$	4684	FLAT WASHER 5/8"	2	
12\$	0183	COTTER PIN	4	
13\$	10446	FLAT WASHER 3/4"	8	
14\$	8151	FLAT WASHER 3/4" SAE	8	
15\$	0161 C	LOCK WASHER 5/16"	2	
16	EMR2	E-Z MOVER ASSY	1	INCLUDES ITEMS W/\$
				(CONTACT UNIT SALES
				DEPARTMENT)

TERMS AND CONDITIONS OF SALE — PARTS

PAYMENT TERMS

Terms of payment for parts are net 30 days.

FREIGHT POLICY

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER

The minimum charge for orders from Multiquip is \$15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

- A Returned Material Authorization must be approved by Multiquip prior to shipment.
- To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
 - The parts numbers and descriptions must match the current parts price list.
 - b. The list must be typed or computer generated.
 - c. The list must state the reason(s) for the return.
 - d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
 - The list must include the name and phone number of the person requesting the RMA.
- 3. A copy of the Return Material Authorization must accompany the return shipment.
- Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.

- Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
- 6. The following items are not returnable:
 - Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
 - b. Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
 - Any line item with an extended dealer net price of less than \$5.00.
 - d. Special order items.
 - e. Electrical components.
 - f. Paint, chemicals, and lubricants.
 - g. Decals and paper products.
 - h. Items purchased in kits.
- 7. The sender will be notified of any material received that is not acceptable.
- Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.
- Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
- 10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
- 11. Credit issued will be applied to future purchases only.

PRICING AND REBATES

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

SPECIAL EXPEDITING SERVICE

A \$35.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. Apart from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

Effective: February 22, 2006

NOTES

PARTS MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave. Carson, CA 90746

Contact: mq@multiquip.com

Service Department

800-421-1244 310-537-3700

Technical Assistance

800-427-1244

310-537-3700

Warranty Department

MQ Parts Department

800-421-1244 310-537-3700

Fax: 310-943-2249

Fax: 800-672-7877

800-478-1244 Fax: 310-943-2238

CANADA

Multiquip

4110 Industriel Boul. Tel: (450) 625-2244 Laval, Quebec, Canada H7L 6V3 Tel: (877) 963-4411 Contact: infocanada@multiquip.com Fax: (450) 625-8664

Tel. (800) 421-1244

Fax (310) 537-3927

UNITED KINGDOM

Multiquip (UK) Limited Head Office

Unit 2, Northpoint Industrial Estate, Tel: 0161 339 2223 Globe Lane. Fax: 0161 339 3226

Dukinfield, Cheshire SK16 4UJ Contact: sales@multiquip.co.uk

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PN: 30053