

# GENUINE **MEIARIS**



**YOUR SOURCE FOR HIGH QUALITY  
PUMPS & POWER TAKE OFFS**

**P.T.O. PRODUCT LISTING**  
**EFFECTIVE: APRIL 1, 2011**

# P.T.O. PRODUCT LISTING

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All items are Metaris manufactured. OEM part #'s are displayed for reference purposes only.

# P.T.O. PRODUCT LISTING

## MH6 SERIES

(PTO SERIES)	(RATIO GEAR)	(INPUT GEAR)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MH6S	B	01	X	A	1	RA

EXAMPLE	
SERIES	MH6S
RATIO	B
INPUT GEAR	01
OPTION	X
SHIFTER	A
ASSEMBLY	1
OUTPUT	RA

PART NUMBER: MH6SB01XA1RA

PART#	SERIES
MH6S	6 BOLT PTO
MH6D	6 BOLT DEEP MOUNT PTO
MH6N	6 BOLT LESS STUD KIT
MH6M	6 BOLT DEEP LESS STUD
MH6G	6 BOLT METRIC STUD

PART#	SERIES
B	UN-A-GEAR
C	RATIO GEAR
E	RATIO GEAR
J	RATIO GEAR
O	RATIO GEAR
R	RATIO GEAR
S	RATIO GEAR
T	RATIO GEAR

INPUT GEARS	
PART#	
01	
02	
05	
06	
08	
11	
17	
18	
21	
24	
27	
28	
30	
33	
34	
42	

INPUT GEARS (Cont.)	
PART#	
50	
52	
60	

OPTIONS	
PART#	
X	STANDARD

SHIFTER'S	
PART#	
A*	AIR WITH KIT
L	LEVER CLEVIS
M	CONSTANT MESH
N	NO CONTROLLER
P	12 VOLT ELECTRIC OVER AIR
S*	DUAL CONTROLLER W/KICKOUT
T*	DUAL CONTROLLER W/O KICKOUT
W	WIRE
(*)	Air Protection Kit

ARRANGEMENTS	
PART#	
1	RIGHT FORWARD
2	RIGHT REAR
3	LEFT FORWARD
4	LEFT REAR

OUTPUTS	
PART#	
DA	DIN 5462 8T
GA	ROTATABLE/GREASEABLE SAE "B" 2/4 Bolt 7/8" 13T
GB	ROTATABLE/GREASEABLE SAE "BB" 2/4 Bolt 1" 15T
GC	ROTATABLE/GREASEABLE SAE "B" 2 Bolt 7/8" 13T
GD	ROTATABLE/GREASEABLE SAE "BB" 2 Bolt 1" 15T
RA	ROTATABLE SAE "B" 2/4 Bolt 7/8" 13T
RB	ROTATABLE SAE "BB" 2/4 Bolt 1" 15T
RC	ROTATABLE SAE "B" 2/4 Bolt 1 1/4" 14T
SB	ROTATABLE SAE "BB" 2 Bolt 1" 15T
SD	ROTATABLE SAE "B" 2 Bolt 7/8" 13T
SE	1 1/4" ROUND SHAFT
SF	SAE "A" 2 Bolt 5/8" 9T
TP	Chelsea Special (Tyrone) 7/8 13T

### Foot Notes:

(\*) These kits do not include an air protection valve in them. It is recommended that you have this valve in your PTO air installation. If needed, order number (MPN600205) or (M118365X) KIT.



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# P.T.O. PRODUCT LISTING

## MHS6 SERIES

(Pto/SERIES)	(RATIO GEAR)	(INPUT GEAR)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MHS6S	B	60	P	E	1	RA

### EXAMPLE

SERIES	MHS6S
RATIO	B
INPUT GEAR	60
OPTION	P
SHIFTER	E
ASSEMBLY	1
OUTPUT	RA

PART NUMBER MHS6SB60PE1RA

### PART# SERIES

MHS6S	6 BOLT PTO STD. STUD KIT
MHS6G	6 BOLT PTO METRIC STD. STUD KIT

### PART# SERIES

A	RATIO GEAR
B	RATIO GEAR
D	RATIO GEAR

### INPUT GEARS

PART#	
60	AJ (ALLISON)
68	HV (ALLISON)

### INPUT GEARS (Cont.)

PART#

### PART# OPTIONS

X STANDARD

P PRESSURE LUBE

### SHIFTERS

#### PART#

E 12 VOLT HYDRAULIC VALVE

G 24 VOLT HYDRAULIC VALVE

### ARRANGEMENTS

#### PART#

1 RIGHT FORWARD

2 RIGHT REAR

3 LEFT FORWARD

4 LEFT REAR

### OUTPUTS

#### PART#

RA SAE "B" 2/4 Bolt 7/8" 13T Output Rotatable

SA SAE "B" 2/4 Bolt 7/8" 13T Output Fixed

SB SAE "BB" 2/4 Bolt 1" 15T Output Fixed

SE 1-1/4" Rd. Shaft



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# P.T.O. PRODUCT LISTING

## MH8 SERIES

(PTO SERIES)	(RATIO GEAR)	(INPUT GEAR)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MH8S	B	01	X	A	1	RA

### EXAMPLE

SERIES	MH8S
RATIO	B
INPUT GEAR	01
OPTION	X
SHIFTER	A
ASSEMBLY	1
OUTPUT	RA

**PART NUMBER** MH8SB01XA1RA

### PART# SERIES

MH8S	8 BOLT PTO
MH8D	8 BOLT DEEP MOUNT PTO
MH8N	8 BOLT LESS STUD KIT
MH8M	8 BOLT DEEP LESS STUD
MH8G	8 BOLT METRIC STUD

### PART# SERIES

A	UN-A-GEAR
B	UN-A-GEAR
C	RATIO GEAR
E	RATIO GEAR
J	RATIO GEAR
O	RATIO GEAR
R	RATIO GEAR
S	RATIO GEAR
T	RATIO GEAR

### INPUT GEARS

PART#
01
02
05
06
08
11
17
18
21
24
27
28
30
33
34
42

### INPUT GEARS (Cont.)

PART#
50
52
60

### OPTIONS

PART#
X STANDARD

### SHIFTER'S

PART#
A* AIR WITH KIT
L LEVER CLEVIS
M CONSTANT MESH
N NO CONTROLLER
S* DUAL CONTROLLER W/KICKOUT
T* DUAL CONTROLLER W/O KICKOUT
W WIRE
(*) Air Protection Kit

### ARRANGEMENTS

PART#
1 RIGHT FORWARD
2 RIGHT REAR
3 LEFT FORWARD
4 LEFT REAR

### OUTPUTS

PART#
DA DIN 5462 8T
GA ROTATABLE/GREASEABLE SAE "B" 2/4 Bolt 7/8" 13T
GB ROTATABLE/GREASEABLE SAE "BB" 2/4 Bolt 1" 15T
GC ROTATABLE/GREASEABLE SAE "B" 2 Bolt 7/8" 13T
GB ROTATABLE/GREASEABLE SAE "BB" 2 Bolt 1" 15T
RA ROTATABLE SAE "B" 2/4 Bolt 7/8" 13T
RB ROTATABLE SAE "BB" 2/4 Bolt 1" 15T
RC ROTATABLE SAE "B" 2/4 Bolt 1 1/4" 14T
SB ROTATABLE SAE "BB" 2 Bolt 1" 15T
SD ROTATABLE SAE "B" 2 Bolt 7/8" 13T
SE 1 1/4" ROUND SHAFT
SF SAE "A" 2 Bolt 5/8" 9T
TP Chelsea Special (Tyrone) 7/8 13T

### Foot Notes:

(\*) These kits do not include an air protection valve in them. It is recommended that you have this valve in your PTO air installation. If needed, order number (MPN600205) or (M118365X) KIT.



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# P.T.O. PRODUCT LISTING

## MHD8 SERIES

(PTO SERIES)	(RATIO GEAR)	(INPUT GEAR)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MHD8S	B	01	X	A	3	RJ

### EXAMPLE

SERIES	MHD8S
RATIO	B
INPUT GEAR	01
OPTION	X
SHIFTER	A
ASSEMBLY	3
OUTPUT	RJ

**PART NUMBER** MHD8SB01XA3RJ

### PART# SERIES

MHD8S	8 BOLT PTO
MHD8D	8 BOLT DEEP MOUNT PTO
MHD8G	8 BOLT METRIC STUD

### PART# SERIES

<b>B</b>	RATIO GEAR
<b>C</b>	RATIO GEAR
<b>E</b>	RATIO GEAR
<b>J</b>	RATIO GEAR
<b>O</b>	RATIO GEAR

### INPUT GEARS

PART#	
01	INPUT GEAR
24	INPUT GEAR

### PART# OPTIONS

<b>X</b>	STANDARD
----------	----------

### SHIFTER'S

PART#	
<b>A*</b>	AIR WITH KIT
<b>N</b>	NO CONTROLLER
<b>S*</b>	DUAL CONTROLLER W/KICKOUT
<b>P</b>	12 VOLT ELECTRIC OVER AIR
<b>T*</b>	DUAL CONTROLLER W/O KICKOUT
(*)	Air Protection Kit

### ARRANGEMENTS

PART#	
<b>3</b>	LEFT FORWARD

### OUTPUTS

PART#	
<b>RJ</b>	Rotatable Flange SAE "C" 1.125 14 Spline
<b>SE</b>	1.25 Round Output Shaft
<b>IC</b>	1410 Spicer® Flange

### Foot Notes:

(\*) These kits do not include an air protection valve in them. It is recommended that you have this valve in your PTO air installation. If needed, order number (MPN600205) or (M118365X) KIT.



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# P.T.O. PRODUCT LISTING

## MHS10 SERIES

(PTO SERIES)	(RATIO GEAR)	(INPUT GEAR)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MHS10S	B	63	P	E	3	SA

### EXAMPLE

SERIES	MHS10S
RATIO	B
INPUT GEAR	63
OPTION	P
SHIFTER	E
ASSEMBLY	3
OUTPUT	SA

PART NUMBER MHS10SB63PE3SA

PART#	SERIES
MHS10S	10 BOLT PTO STD. STUD KIT

PART#	SERIES
B	RATIO GEAR
D	RATIO GEAR
G	RATIO GEAR
M	RATIO GEAR
S	RATIO GEAR

### INPUT GEARS

PART#	SERIES
63	10 BOLT (ALLISON)

### OPTIONS

PART#	SERIES
P	PRESSURE LUBE

### SHIFTER'S

PART #	SERIES
E	12 VOLT HYDRAULIC VALVE
G	24 VOLT HYDRAULIC VALVE
M	AIR COMBO VALVE W/KICKOUT OVER 12V ELECTRIC
P	AIR COMBO VALVE W/O KICKOUT OVER 12V ELECTRIC
R	12 VOLT HYDRAULIC REMOTE VALVE
E	24 VOLT HYDRAULIC REMOTE VALVE

### ARRANGEMENTS

PART#	SERIES
3	LEFT FORWARD

### OUTPUTS

PART#	SERIES
RA	SAE "B" 2/4 Bolt 7/8" 13T Output Rotatable
RB	SAE "BB" 2/4 Bolt 1" 15T Output Rotatable
SA	SAE "B" 2/4 Bolt 7/8" 13T Output Fixed
SB	SAE "BB" 2/4 Bolt 1" 15T Output Fixed
SE	1-1/4" Rd. Shaft



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# P.T.O. PRODUCT LISTING

## MH6 KIT PROGRAM

(PTO SERIES)	(RATIO GEAR)	(KIT)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MH6S	C	KIT	X	?	1	RA

### EXAMPLE

STEP #1	SERIES	MH6SCKITX
STEP #2	ARRANGEMENTS	1
STEP #3	OUTPUT	RA
PART #	MH8SCKITX-1RA	

STEP #2	ARRANGEMENTS	1
STEP #3	OUTPUT	RA

PART #	MH8SCKITX-1RA	
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### OPTIONAL

INPUT GEAR	01
SHIFTER	M902299X

### STEP #1 SERIES

MH6SCKITX	"C" RATIO KIT (STD. STUD KIT)
MH6SEKITX	"E" RATIO KIT (STD. STUD KIT)
MH6SJKITX	"J" RATIO KIT (STD. STUD KIT)
MH6SOKITX	"O" RATIO KIT (STD. STUD KIT)
MH6SRKITX	"R" RATION KIT (STD. STUD KIT)
MH6SSKITX	"S" RATION KIT (STD. STUD KIT)
MH6STKITX	"T" RATION KIT (STD. STUD KIT)
MH6DCKITX	"C" RATIO KIT (DEEP MT. STUD KIT)
MH6DCKITX	"E" RATIO KIT (DEEP MT. STUD KIT)
MH6DCKITX	"J" RATIO KIT (DEEP MT. STUD KIT)

MH6DOKITX	"O" RATIO KIT (DEEP MT. STUD KIT)
MH6DRKITX	"R" RATIO KIT (DEEP MT. STUD KIT)
MH6DSKITX	"S" RATIO KIT (DEEP MT. STUD KIT)
MH6DSKITX	"T" RATIO KIT (DEEP MT. STUD KIT)

MH6GCKITX	"C" RATIO KIT (METRIC STUD KIT)
MH6GEKITX	"E" RATIO KIT (METRIC STUD KIT)
MH6GJKITX	"J" RATIO KIT (METRIC STUD KIT)
MH6GOKITX	"O" RATIO KIT (METRIC STUD KIT)
MH6GRKITX	"R" RATIO KIT (METRIC STUD KIT)
MH6GSKITX	"S" RATIO KIT (METRIC STUD KIT)
MH6GTKITX	"T" RATIO KIT (METRIC STUD KIT)

### OUTPUTS

STEP #3	
DA	DIN 5462 8T
GA	ROTATABLE/GREASEABLE SAE "B" 2 /4 BOLT 7/8" 13T
GB	ROTATABLE/GREASEABLE SAE "BB" 2 /4 BOLT 1" 15T
GC	ROTATABLE/GREASEABLE SAE "B" 2 BOLT 7/8" 13T
GD	ROTATABLE/GREASEABLE SAE "BB" 2 BOLT 1" 15T
RA	7/8" SAE "B" ROTATABLE FLANGE
RB	1" SAE "B" ROTATABLE FLANGE
RC	ROTATABLE SAE "B" 2/4 BOLT 1.250" 14T
SD	7/8" SAE "B" 2 BOLT FLANGE
SE	SAE 1 1/4" ROUND SHAFT
SF	SAE "A" 5/8" 9 SPLINE SHAFT
TP	TYRONE PUMP 7/8 13 TOOTH

### INPUT GEARS (OPTIONAL)

PART#	
01X	INPUT GEAR KIT
02X	INPUT GEAR KIT
05X	INPUT GEAR KIT
06X	INPUT GEAR KIT
08X	INPUT GEAR KIT
11X	INPUT GEAR KIT
17X	INPUT GEAR KIT
18X	INPUT GEAR KIT
21X	INPUT GEAR KIT
24X	INPUT GEAR KIT
27X	INPUT GEAR KIT
28X	INPUT GEAR KIT
30X	INPUT GEAR KIT
33X	INPUT GEAR KIT
34X	INPUT GEAR KIT
42X	INPUT GEAR KIT
50X	INPUT GEAR KIT
52X	INPUT GEAR KIT
60X	INPUT GEAR KIT

### CONTROLLER KITS (OPTIONAL)

PART#	
A*	SINGLE CONTROLLER KIT
L	LEVER CLEVIS
M	CONSTANT MESH
N	NO CONTROLLER



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# P.T.O. PRODUCT LISTING

## MH6 KIT PROGRAM - CONT'D...

ARRANGEMENTS	
STEP #2	
1	RIGHT FORWARD
2	RIGHT REAR
3	LEFT FORWARD
4	LEFT REAR

**Foot Notes:** (\*) These kits do not include an air protection valve in them. It is recommended that you have this valve in your PTO air installation. If needed, order number (MPN600205) or (M118365X) KIT.

CONTROLLER KITS (OPTIONAL) continued..	
PART#	
<b>S*</b>	DUAL CONTROLLER W/KICKOUT
<b>T*</b>	DUAL CONTROLLER W/O KICKOUT
<b>W</b>	WIRE
<b>(*)</b>	Air Protection Kit

SHIFTER KIT OPTION	
PART#	
<b>M902299X</b>	AIR SHIFTER TOP KIT POS.1-4
<b>M902300X</b>	AIR SHIFTER TOP KIT POS.2-3
<b>M902099X</b>	WIRE SHIFTER TOP KIT POS.1-4
<b>M903599X</b>	WIRE SHIFTER TOP KIT POS.2-3



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# P.T.O. PRODUCT LISTING

## MH8 KIT PROGRAM

(PTO SERIES)	(RATIO GEAR)	(KIT)	(OPT.)	(SHIFTER)	(ASSEMBLY)	(OUTPUT)
MH8S	C	KIT	X	?	1	RA

EXAMPLE		
STEP #1	SERIES	MH8SCKITX
STEP #2	ARRANGEMENTS	1
STEP #3	OUTPUT	RA

PART #	MH8SCKITX-1RA (TOTAL)
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OPTIONAL		
	INPUT GEAR	01
	SHIFTER	M902299X

STEP #1	SERIES
MH8SCKITX	"C" RATIO KIT (STD. STUD KIT)
MH8SEKITX	"E" RATIO KIT (STD. STUD KIT)
MH8SJKITX	"J" RATIO KIT (STD. STUD KIT)
MH8SOKITX	"O" RATIO KIT (STD. STUD KIT)
MH8SRKITX	"R" RATIO KIT (STD. STUD KIT)
MH8SSKITX	"S" RATIO KIT (STD. STUD KIT)
MH8STKITX	"T" RATIO KIT (STD. STUD KIT)

MH8DCKITX	"C" RATIO KIT (DEEP MT. STUD KIT)
MH8DEKITX	"E" RATIO KIT (DEEP MT. STUD KIT)
MH8DJKITX	"J" RATIO KIT (DEEP MT. STUD KIT)
MH8DOKITX	"O" RATIO KIT (DEEP MT. STUD KIT)
MH8DRKITX	"R" RATIO KIT (DEEP MT. STUD KIT)
MH8DSKITX	"S" RATIO KIT (DEEP MT. STUD KIT)
MH8DTKITX	"T" RATIO KIT (DEEP MT. STUD KIT)

MH8GCKITX	"C" RATIO KIT (METRIC STUD KIT)
MH8GEKITX	"E" RATIO KIT (METRIC STUD KIT)
MH8GJKITX	"J" RATIO KIT (METRIC STUD KIT)
MH8GOKITX	"O" RATIO KIT (METRIC STUD KIT)
MH8GRKITX	"R" RATIO KIT (METRIC STUD KIT)
MH8GSKITX	"S" RATIO KIT (METRIC STUD KIT)
MH8GTKITX	"T" RATIO KIT (METRIC STUD KIT)

OUTPUTS	
<b>STEP #3</b>	
<b>DA</b>	DIN 5462 8T
<b>GA</b>	ROTATABLE/GREASEABLE SAE "B" 2/4 BOLT 7/8" 13T
<b>GB</b>	ROTATABLE/GREASEABLE SAE "BB" 2/4 BOLT 1" 15T
<b>GC</b>	ROTATABLE/GREASEABLE "B" 2 BOLT 7/8" 13 T
<b>GD</b>	ROTATABLE/GREASEABLE SAE "BB" 2 BOLT 1" 15T
<b>RA</b>	7/8" SAE "B" ROTATABLE FLANGE
<b>RB</b>	1" SAE "B" ROTATABLE FLANGE
<b>RC</b>	ROTATABLE SAE "B" 2/4 BOLT 1.250" 14 T
<b>SD</b>	7/8" SAE "B" 2 BOLT FLANGE
<b>SE</b>	SAE 1 1/4" ROUND SHAFT
<b>SF</b>	SAE "A" 5/8" 9 SPLINE SHAFT
<b>TP</b>	TYRONE PUMP 7/8 13 TOOTH

INPUT GEARS (OPTIONAL)	
<b>PART#</b>	
<b>01X</b>	INPUT GEAR KIT
<b>02X</b>	INPUT GEAR KIT
<b>05X</b>	INPUT GEAR KIT
<b>06X</b>	INPUT GEAR KIT
<b>08X</b>	INPUT GEAR KIT
<b>11X</b>	INPUT GEAR KIT
<b>17X</b>	INPUT GEAR KIT
<b>18X</b>	INPUT GEAR KIT
<b>21X</b>	INPUT GEAR KIT
<b>24X</b>	INPUT GEAR KIT
<b>27X</b>	INPUT GEAR KIT
<b>28X</b>	INPUT GEAR KIT
<b>30X</b>	INPUT GEAR KIT
<b>33X</b>	INPUT GEAR KIT
<b>34X</b>	INPUT GEAR KIT
<b>42X</b>	INPUT GEAR KIT
<b>50X</b>	INPUT GEAR KIT
<b>52X</b>	INPUT GEAR KIT
<b>60X</b>	INPUT GEAR KIT

CONTROLLER KITS (OPTIONAL)	
<b>PART#</b>	
<b>A*</b>	SINGLE CONTROLLER KIT
<b>L</b>	LEVER CLEVIS



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# P.T.O. PRODUCT LISTING

## MH8 KIT PROGRAM - CONT'D...

ARRANGEMENTS	
STEP #2	
1	RIGHT FORWARD
2	RIGHT REAR
3	LEFT FORWARD
4	LEFT REAR

**Foot Notes:**

(\*) These kits do not include an air protection valve in them. It is recommended that you have this valve in your PTO air installation. If needed, order number (MPN600205) or (M118365X) KIT.

CONTROLLER KITS (OPTIONAL)	
PART#	
<i>M</i>	CONSTANT MESH
<i>N</i>	NO CONTROLLER
<i>S*</i>	DUAL CONTROLLER W/KICKOUT
<i>T*</i>	DUAL CONTROLLER W/O KICKOUT
<i>W</i>	WIRE
(*)	Air Protection Kit

SHIFTER KIT OPTIONS	
PART #	
M902299X	AIR SHIFTER TOP KIT POS.1-4
M902300X	AIR SHIFTER TOP KIT POS.2-3
M902099X	WIRE SHIFTER TOP KIT POS.1-4
M903599X	WIRESHIFTER TOP KIT POS.2-3



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
<b>HOUSINGS</b>		
MPN600005	MHS-1000	MH6-PTO HOUSING
MPN600006	MHS-1010	MH6-DEEP MOUNT PTO HOUSING
MPN600089	MHS-2000	MH8-PTO HOUSING
MPN600090	MHS-2010	MH8-DEEP MOUNT PTO HOUSING
MPN600126	MSH-371	AIR SHIFTER TOP HOUSING
MPN600127	MSH-391	MECHANICAL SHIFTER TOP HOUSING
MPN600159	MHS-641	MAD726-180° STD. MOUNT ADAPTER GEAR HOUSING
MPN600166	MHS-651	MAD726-45° STD. MOUNT ADAPTER GEAR HOUSING
MPN600261	MHS-633	MHD8-PTO HOUSING
MPN600325	MHS-211	MACK 180° ADAPTER GEAR HOUSING
MPN600369	MHS-369	MHS6-PTO HOUSING
MPN600433	MHS-433	MHS10-PTO HOUSING
MPN600584	MHS-584	MH8-PTO HOUSING (NEW STYLE)
N/A	MHS-642	MAD726-180° DEEP MOUNT ADAPTER GEAR HOUSING
N/A	MHS-622	MAD726-45° DEEP MOUNT ADAPTER GEAR HOUSING

<b>INPUT GEARS</b>		
MPN600061	MR-675	"01" INPUT GEAR (MH6&8) (UNIVERSAL)
MPN600062	MR-676	"21" INPUT GEAR (MH6&8) (ZED/F)
MPN600063	MR-677	"05" INPUT GEAR (MH6&8) (SPICER)
MPN600064	MR-679	"06" INPUT GEAR (MH6&8) (SPICER)
MPN600065	MR-680	"17" INPUT GEAR (MH6&8) (FULLER)
MPN600066	MR-682	"08" INPUT GEAR (MH6&8) (FULLER)
MPN600067	MR-683	"02" INPUT GEAR (MH6&8) (UNIVERSAL)
MPN600070	MR-692	"27" INPUT GEAR (MH6&8) (FULLER)
MPN600071	MR-694	"50" INPUT GEAR (MH6&8) (ZED/F)
MPN600072	MR-695	"24" INPUT GEAR (MH6&8) (MACK)
MPN600073	MR-696	"34" INPUT GEAR (MH6&8) (SPICER)
MPN600074	MR-697	"33" INPUT GEAR (MH6&8) (SPICER)
MPN600075	MR-699	"11" INPUT GEAR (MH6&8) (SPICER)
MPN600076	MR-700	"52" INPUT GEAR (MH6&8) (ZED/F)
MPN600086	MR-771	"28" INPUT GEAR (MH6&8) (FULLER)
MPN600191	MR-66	"42" INPUT GEAR (MH6&8) FULLER)
MPN600192	MR-60	"60" INPUT GEAR (MH6&8) (ALLISON)
MPN600328	MR-681	"18" INPUT GEAR (MH6&8) (FULLER)
MPN600590	MR-698	"30" INPUT GEAR (MH6&8)
MPN099005		INPUT GEAR (530 ADAPTER GEAR)

<b>RATIO GEARS</b>		
MPN600053	MR-654	"E" INPUT RATIO GEAR (MH6&8)
MPN600054	MR-653	"E" OUTPUT RATIO GEAR (MH6&8)
MPN600055	MR-656	"J" INPUT RATIO GEAR (MH6&8)



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600056	MR-655	"J" OUTPUT RATIO GEAR (MH6&8)
MPN600057	MR-658	"O" INPUT RATIO GEAR (MH6&8)
MPN600058	MR-657	"O" OUTPUT RATIO GEAR (MH6&8)
MPN600059	MR-660	"T" INPUT RATIO GEAR (MH6&8)
MPN600060	MR-659	"T" OUTPUT RATIO GEAR (MH6&8)
MPN600068	MR-687	"C" INPUT RATIO GEAR (MH6&8)
MPN600069	MR-686	"C" OUTPUT RATIO GEAR (MH6&8)
MPN600077	MR-705	"B-01&24" OUTPUT RATIO GEAR (MH6&8)
MPN600079	MR-730	"R" INPUT RATIO GEAR (MH6&8)
MPN600080	MR-729	"R" OUTPUT RATIO GEAR (MH6&8)
MPN600081	MR-732	"S" INPUT RATIO GEAR (MH6&8)
MPN600082	MR-731	"S" OUTPUT RATIO GEAR (MH6&8)
MPN600083	MR-734	"A-01" OUTPUT RATIO GEAR (MH8)
MPN100191	MR-792	"O-01" OUTPUT RATIO GEAR (MHD8)
MPN600258	MR-578	"E-01&24" OUTPUT RATIO GEAR (MHD8)
MPN600315	MR-783	"B-01&24" OUTPUT RATIO GEAR (MHD8)
MPN600316	MR-787	"J-01" OUTPUT RATIO GEAR (MHD8)
MPN600385	MR-385	"AAJ" OUTPUT RATIO GEAR (MHS6)
MPN600386	MR-386	"BAJ & GBHV" OUTPUT RATIO GEAR (MHS6)
MPN600387	MR-387	"GDHV" OUTPUT RATIO GEAR (MHS6)
MPN600444	MR-444	"M" OUTPUT RATIO GEAR (MHS10)
MPN600445	MR-445	"G" OUTPUT RATIO GEAR (MHS10)
MPN600446	MR-446	"D" OUTPUT RATIO GEAR (MHS10)
MPN600447	MR-447	"B" OUTPUT RATIO GEAR (MHS10)
MPN600448	MR-448	"S" OUTPUT RATIO GEAR (MHS10)
MPN600540	MR-785	"C-01&24" OUTPUT RATIO GEAR (MHD8)

UNI-GEAR		
MPN100192	MR-791	"O-01" INPUT GEAR / RATIO GEAR (MHD8)
MPN600078	MR-706	"B - 01" INPUT GEAR / RATIO GEAR (MH6 & 8)
MPN600084	MR-735	"A - 01" INPUT GEAR / RATIO GEAR (MH6 & 8)
MPN600085	MR-756	"B - 24" INPUT GEAR / RATIO GEAR (MH6 & 8)
MPN600256	MR-577	"E-01" INPUT GEAR / RATIO GEAR (MHD8)
MPN600313	MR-782	"B-01" INPUT GEAR / RATIO GEAR (MHD8)
MPN600314	MR-786	"J-01" INPUT GEAR / RATIO GEAR (MHD8)
MPN600317	MR-614	"E-24" INPUT GEAR / RATIO GEAR (MHD8)
MPN600412	MR-412	"GBHV" INPUT GEAR / RATIO GEAR (MHS6)
MPN600413	MR-413	"GDHV" INPUT GEAR / RATIO GEAR (MHS6)
MPN600414	MR-414	"AAJ" INPUT GEAR / RATIO GEAR (MHS6)
MPN600415	MR-415	"BAJ" INPUT GEAR / RATIO GEAR (MHS6)
MPN600462	MR-462	"S63" INPUT GEAR / RATIO GEAR (MHS10)
MPN600463	MR-463	"B63" INPUT GEAR / RATIO GEAR (MHS10)



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600464	MR-464	"D63" INPUT GEAR / RATIO GEAR (MHS10)
MPN600465	MR-465	"G63" INPUT GEAR / RATIO GEAR (MHS10)
MPN600466	MR-466	"M63" INPUT GEAR / RATIO GEAR (MHS10)
MPN600541	MR-784	"C-01" INPUT GEAR / RATIO GEAR (MHD8)
MPN600589	MR-834	"C-24" INPUT GEAR / RATIO GEAR (MHD8)
MPN600592	MR-835	"B-24" INPUT GEAR / RATIO GEAR (MHD8)

## GEAR KITS

MPN600484	"01X"	"01X" GEAR KIT
MPN600485	"02X"	"02X" GEAR KIT
MPN600486	"05X"	"05X" GEAR KIT
MPN600487	"06X"	"06X" GEAR KIT
MPN600488	"08X"	"08X" GEAR KIT
MPN600489	"11X"	"11X" GEAR KIT
MPN600490	"17X"	"17X" GEAR KIT
MPN600491	"21X"	"21X" GEAR KIT
MPN600492	"24X"	"24X" GEAR KIT
MPN600493	"27X"	"27X" GEAR KIT
MPN600494	"28X"	"28X" GEAR KIT
MPN600495	"33X"	"33X" GEAR KIT
MPN600496	"34X"	"34X" GEAR KIT
MPN600497	"50X"	"50X" GEAR KIT
MPN600498	"52X"	"52X" GEAR KIT
MPN600510	"42X"	"42X" GEAR KIT
MPN600511	"60X"	"60X" GEAR KIT
MPN600563	"18X"	"18X" GEAR KIT
MPN600662	30X	"30X" GEAR KIT

## GEAR ADAPTER ASSY.

MPN600302	MAD626-01-1	180° GEAR ADAPTER ASSEMBLY (FULLER)
MPN600303	MAD645-01-1	45° GEAR ADAPTER ASSEMBLY (FULLER)
MPN600324	MAD530-1X	180° GEAR ADAPTER ASSEMBLY (MACK)
MPN600473	MAD626-01-3	180° GEAR ADAPTER ASSEMBLY (FULLER)
MPN600474	MAD645-01-3	45° GEAR ADAPTER ASSEMBLY (FULLER)

## OUTPUT SHAFTS

MPN100193	MOS621	1410 SPICER FLANGE (MHD8)
MPN100196	MOSG-171	GREASEABLE 7/8" 13T OUTPUT SHAFT
MPN100219	MOSG-241	GREASEABLE 1" 15T OUTPUT SHAFT
MPN600105	MOS-071	5/8" 9T OUTPUT SHAFT (SF FLANGE)
MPN600106	MOS-235	1 1/4" ROUND OUTPUT SHAFT
MPN600107	MOS-791	7/8" 13T OUTPUT SHAFT
MPN600108	MOS-861	1" 15T OUTPUT SHAFT



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600160	MOS-091	7/8" 13T OUTPUT SHAFT (TP FLANGE)
MPN600257	MOS-456	1 1/4" ROUND OUTPUT SHAFT (MHD8)
MPN600319	MOS-521	1 1/4" 14T OUTPUT SHAFT (MHD8)
MPN600455	MOS-455	1 1/4" ROUND OUTPUT SHAFT (MHS10)
MPN600456	MOS-460	7/8" 13T OUTPUT SHAFT FIXED 2/4 BOLT "SA" (MHS10)
MPN600457	MOS-457	7/8" 13T OUTPUT SHAFT ROTATABLE 2/4 BOLT "RA" (MHS10)
MPN600458	MOS-458	1" 15T OUTPUT SHAFT FIXED 2/4 BOLT "SB" (MHS10)
MPN600459	MOS-459	1" 15T OUTPUT SHAFT ROTATABLE 2/4 BOLT "RB" (MHS10)
MPN600531	MOS-531	1 1/4" 14T OUTPUT SHAFT
MPN600578	MOS-578	DIN 5462 8T OUTPUT SHAFT

## FLANGE HOUSINGS

MPN100194	MFL-194	"IC" FLANGE
MPN600042	MFL-451	"SF" FLANGE HOUSING
MPN600043	MFL-491	"TP" FLANGE HOUSING
MPN600044	MFL-911	"RA" FLANGE HOUSING
MPN600318	MFL-191	"RJ" FLANGE HOUSING
MPN600434	MFL-434	BEARING CAP FOR "SE" CONFIG. (MHS10)
MPN600435	MFL-435	BEARING CAP FOR "SA" CONFIG.(MHS10)
MPN600436	MBC-436	BEARING CAP FOR ADAPTER FOR "RA & RB" CONFIG.(MHS10)
MPN600440	MFL-440	BEARING CAP FOR "SB" CONFIG. (MHS10)
MPN600509	MFL-509	BEARING CAP FOR "RA & RB" CONFIG.(MHS10)
MPN600530	MFL-530	"SB" OUTPUT FLANGE
MPN600623	MFL-623	"DA" FLANGE HOUSING

## END COVER CAPS

MPN100078	MECG-931	GREASABLE END COVER
MPN600039	MEC-931	CLOSED END COVER CAP
MPN600099	MOC-662	OPEN END COVER CAP
MPN600110	MPC-701	SHIFTER HOUSING END CAP
MPN600272	MEC-711	END COVER CAP
MPN600275	MPC-573	PISTON CARRIER COVER
MPN600320	MEC-581	SENDING UNIT COVER

## SHIFTER ASSEMBLIES

MPN600009	M902099	COMPLETE WIRE SHIFTER ASSEMBLY (POS. 1&4)
MPN600010	M902299	COMPLETE AIR SHIFTER ASSEMBLY (POS. 1&4)
MPN600011	M903599	COMPLETE WIRE SHIFTER ASSEMBLY (POS. 2&3)
MPN600012	M903899	COMPLETE AIR SHIFTER ASSEMBLY (POS. 2&3)
MPN600153	MCM-399	CONSTANT MESH SHIFTER COVER
MPN600217	M9013799	TOTAL WIRE SHIFT ASSEMBLY KIT

## SHIFTER CABLES



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600176	EE4-306-10	10' CONTROL CABLE (WIRE SHIFTER)
MPN600262	EE4-306-12	12' CONTROL CABLE (WIRE SHIFTER)
MPN600263	EE4-306-15	15' CONTROL CABLE (WIRE SHIFTER)

## SHIFTER ASSY. KITS

MPN600499	M902299X	AIR COVER SHIFTER KIT 1/4 POS.
MPN600500	M903899X	AIR COVER SHIFTER KIT 2/3 POS.
MPN600501	M902099X	MECHANICAL COVER SHIFTER KIT 1/4 POS.
MPN600502	M903599X	MECHANICAL COVER SHIFTER KIT 2/3 POS.

## IDLER PINS

MPN099006		IDLER PIN (530 ADAPTER GEAR)
MPN600091	MIP-531	IDLER PIN (OLD STYLE)
MPN600468	MIP-468	IDLER PIN (MHS10)
MPN600585	MIP-531	IDLER PIN (NEW STYLE)

## BEARINGS

MPN099012	MRB-012	IDLER BEARING (530 ADAPTER GEAR)
MPN600114	MRB-003	OUTPUT BEARING (NON-THRUST SIDE)
MPN600115	MRB-004	OUTPUT SHAFT BEARING
MPN600117	MRB-023	INPUT GEAR IDLER BEARINGS
MPN600118	MRB-035	INPUT IDLER BEARING "B" RATIO
MPN600167	MRB-167	IDLER BEARING (530 ADAPTER GEAR)
MPN600190	MRB-005	INPUT IDLER BEARING "A" RATIO
MPN600278	MRB-011	NEEDLE BEARINGS
MPN600279	MRB-279	"RC"OUTPUT SHAFT BEARING
MPN600363	MRB-363	BALL BEARING (MHS10)
MPN600426	MRB-426	IDLER SHAFT BEARINGS (MHS10)
MPN600427	MRB-427	NEEDLE BEARINGS (MHS10)
MPN600611	MRB-611	INPUT GEAR BEARING CUPS
MPN600612	MRB-612	INPUT GEAR BEARING SET
MPN600661	MRB-661	NEEDLE BEARINGS

## CLUTCH COLLARS

MPN600259	MCC-321	CLUTCH COLLAR (MHD8)
MPN600384	MCG-384	CLUTCH GEAR (MHS10)

## CLUTCH PARTS

MPN600337	MCL-337	CLUTCH BACKUP CYLINDER
MPN600359	MFD-359	FRICTION DISC'S (MHS10)
MPN600361	MCP-361	CLUTCH PLATES (MHS10)



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
<b>VALVES</b>		
MPN600007	M118365	AIR PROTECTION VALVE
MPN600008	M118373	SINGLE AIR CONTROLLER
MPN600022	MAV-295	DUAL CONTROLLER W/KICKOUT
MPN600023	MAV-295M	DUAL CONTROLLER W/O KICKOUT
MPN600401	MSV-401	REMOTE SOLENOID
MPN600477	MSV-477	SOLENOID VALVE (MHS10)
MPN600478	MSH-478	SOLENOID ADAPTER (MHS10)
MPN600507	MFV-507	FEATHERING VALVE
MPN600547	MSS-547	SOLENOID ADAPTER SPACER (MHS10)

<b>SENDING UNITS</b>		
MPN600138	MSW-003	(OLD) SENDING SENSOR UNIT
MPN600334	MSW-003	SENDING SENSOR UNIT
MPN600360	MPS-360	PRESSURE SWITCH
MPN600421	MPS-421	PRESSURE SWITCH (MHS10)
MPN600553	MSUK-01X	SENDING UNIT KIT

<b>GASKETS</b>		
MPN600002	MGA-6010	6 BOLT MOUNTING GASKET (.010)
MPN600003	MGA-6015	6 BOLT MOUNTING GASKET (.015)
MPN600004	MGA-6032	6 BOLT MOUNTING GASKET (.032)
MPN600045	MGA-091	PUMP TO FLANGE GASKET
MPN600046	MGA-130	"TP" PUMP TO FLANGE GASKET
MPN600047	MGA-291	"SF" PUMP TO FLANGE GASKET
MPN600048	MGA4015EC	END CAP COVER GASKET (.015)
	MGA4015EC	END CAP COVER GASKET (.010)
	MGA4015EC	END CAP COVER GASKET (.020)
	MGA4015EC	END CAP COVER GASKET (.032)
MPN600049	MGA-4015-SC	SHIFTER MOUNTING GASKET
MPN600050	MGA-8010	8 BOLT MOUNTING GASKET (.010)
MPN600051	MGA-8015	8 BOLT MOUNTING GASKET (.015)
MPN600052	MGA-8032	8 BOLT MOUNTING GASKET (.032)
MPN600189	MGA4010EC	END CAP COVER GASKET (.010)
MPN600323	MGA-129	FLANGE GASKET
MPN600378	MGA-101	BEARING END COVER GASKET (MHS10)
MPN600536	MGA-7410	MOUNTING GASKET (MHS10) .010
MPN600537	MGA-7415	MOUNTING GASKET (MHS10) .015
MPN600538	MGA-7420	MOUNTING GASKET (MHS10) .020
MPN600542	MGA4020EC	END CAP COVER GASKET (.020)
MPN600561	MGA4032EC	END CAP COVER GASKET (.032)
MPN600569	MGA-442	SOLENOID ADAPTER SPACER GASKET (MHS10)
MPN600628	MGA-092	"SB & SD" PUMP TO FLANGE GASKET



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
<b>SEALS</b>		
MPN600024	MBU-009	AIR SHIFTER PISTON SEAL
MPN600121	MSE-007	OUTPUT SHAFT SEAL
MPN600122	MSE-016	"TP" OUTPUT SHAFT SEAL
MPN600123	MSE-017	SHAFT SEAL
MPN600291	MSE-013	OUTPUT SHAFT SEAL (MHD8)
MPN600379	MSE-379	OIL SEAL (MHS10)
MPN600382	MSE-382	OUTPUT SEAL (MHS10)
MPN600437	MRR-437	"XD" SEAL RETAINER (MHS10)
MPN600504	MSE-004	GREASABLE END COVER SEAL
MPN600587	MSE-587	"RC" OUTPUT SHAFT SEAL
MPN600600	MSE-600	SEAL
MPN600602	MSE-602	"DA" OUTPUT SHAFT SEAL

<b>O-RINGS</b>		
MPN600100	MOR-022	IDLER PIN O-RING (OLD STYLE)
MPN600101	MOR-029	PISTON CAP O-RING
MPN600102	MOR-045	O-RING FOR PISTON SHAFT
MPN600103	MOR-103	END CAP O-RING (MH6/8)
MPN600104	MOR-122	O-RING FOR WIRE KIT
MPN600181	MOR-090	SENSOR O-RING
MPN600273	MOR-004	O-RING (VITON)
MPN600274	MOR-005	O-RING (VITON)
MPN600381	MOR-381	O-RING (MHS10)
MPN600383	MOR-383	O-RING (MHS10)
MPN600443	MOR-443	O-RING (MHS10)
MPN600565	MOR-565	O-RING (MHS10)
MPN600597	MOR-597	O-RING (MHS10)
MPN600609	MOR-609	IDLER PIN O-RING (NEW STYLE)
MPN605345	MOR-345	CLUTCH CYL. O-RING (MHS10)

<b>SNAP RINGS</b>		
MPN600132	MSR-001	INPUT GEAR SNAP RING
MPN600133	MSR-005	OUTPUT SHAFT SNAP RING
MPN600134	MSR-013	OUTPUT SEAL SNAP RING
MPN600213	MSR-099	IDLER PIN SNAP RING (OLD STYLE)
MPN600286	MSR-007	INPUT GEAR SNAP RING
MPN600287	MSR-015	OUTPUT SHAFT SEAL SNAP RING
MPN600335	MSR-335	SNAP RING (MHS10)
MPN600336	MSR-336	SNAP RING (MHS10)
MPN600339	MSR-339	SNAP RING (MHS10)
MPN600520	MSR-520	SNAP RING (MHS10)
MPN600564	MSR-078	IDLER PIN SNAP RING (MHS10)



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600598	MSR-598	SNAP RING (MHS10)
MPN600626	MSR-626	SNAP RING

## ADJUSTING NUT

MPN600112	MPN-841 MPN-851	& INPUT GEAR ADJUSTING NUT
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## ELECTRICAL

MPN600140	MSWK-699	(OLD) SENSOR WIRING HARNESS
MPN600178	MFH-12A	INLINE FUSE
MPN600179	MLI-750	INDICATOR LIGHT
MPN600333	MSWK-699	SENSOR WIRING HARNESS
MPN600341	MRS-341	ROCKER SWITCH
MPN600346	MWT-346	WIRE TIES
MPN600351	MBC-351	BUTT CONNECTOR
MPN600352	MRC-352	EYE TERMINAL CONNECTOR
MPN600353	MCO-353	SPLICE CONNECTOR
MPN600356	MFC-356	FORK CONNECTORS
MPN600395	MWI-395	WIRE
MPN600396	MWI-396	WIRE
MPN600397	MWI-397	WIRE
MPN600418	MGR-418	GROMMET
MPN600422	MWH-422	WIRING HARNESS (MHS10)
MPN600579	MSC-579	SPADE CONNECTOR

## THRUST WASHERS

MPN600449	MWA-449	THRUST WASHER
MPN600467	MWA-467	THRUST WASHER (MHS10)

## PISTON SHAFTS

MPN600119	MSB-072	MECHANICAL PISTON SHAFT
MPN600120	MSB-251	AIR PISTON SHAFT
MPN600276	MPI-531	SHIFTER PISTON
MPN600280	MSB-431	SHIFTER SHAFT
MPN600327	MSB-002	CABLE SHIFTER BAR
MPN600347	MPI-347	PISTON (MHS10)

## SHIFTER FOLKS

MPN600124	MSF-631	SHIFTER FOLK
MPN600300	MSF-434	SHIFTER FORK (MHD8)

## SPRINGS

MPN600128	MSP-019	SPRING FOR POPPET BALL
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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600129	MSP-056	SPRING FOR PISTON
MPN600284	MSP-031	SHIFTER SHAFT SPRING
MPN600402	MSP-402	CLUTCH RETURN SPRING (MHS10)

BUSHINGS		
MPN600000	MBU-221	CONSTANT MESH BUSHING SMALL
MPN600001	MBU-211	CONSTANT MESH BUSHING LARGE
MPN600025	MBU-321	SHIFTER FOLK BUSHING
MPN600026	MBU-601	BUSHING FOR WIRE KIT
MPN600027	MBU-611	WIRE KIT BUSHING
MPN600028	MBU-761	BUSHING FOR WIRE KIT
MPN600029	MBU-981	SHIFTER FOLK BUSHING
MPN600211	MAP-144	SENSOR BUSHING ADAPTER
MPN600260	MGB-901	GEAR BUSHING (MHD8)
MPN600601	MBU-601	SOLENOID BUSHING

PLUGS		
MPN600013	MAP-002	SHIFTER END PLUG
MPN600015	MAP-131	PLUG
MPN600033	MCP-022	SENSOR PLUG
MPN600111	MPL-025	PLUG FOR WIRE KIT
MPN600180	MAP-144	SENSOR ADAPTER PLUG
MPN600277	MPL-731	BACKLASH PLUG
MPN600326	MCP-144	AIR SHIFTER HOUSING PLUG
MPN600349	MSS-349	PIPE PLUG
MPN600349	MFI-349	ALLEN PLUG (MHS10)
MPN600424	MPL-424	PLUG (MHS10)
MPN600586	MPL-586	IDLER PIN PLUG (NEW STYLE)
MPN600607	MFI-607	IDLER PIN PLUG (MHS10)
MPN600610	MPP-610	PIPE PLUG (MHS10)
X02-03-12130	MFI-130	PLUG (MHS10)

SPACERS		
M6032	M6032	.032 STEEL SPACER
M6062	M6062	.062 STEEL SPACER
M6093	M6093	.093 STEEL SPACER
M6125	M6125	.125 STEEL SPACER
M6140	M6140	.140 STEEL SPACER
M6165	M6165	.165 STEEL SPACER
M6187	M6187	.187 STEEL SPACER
M6200	M6200	.200 STEEL SPACER
M6240	M6240	.240 STEEL SPACER
M6270	M6270	.270 STEEL SPACER



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
M6300	M6300	.300 STEEL SPACER
M6350	M6350	.350 STEEL SPACER
M6400	M6400	.400 STEEL SPACER
M6450	M6450	.450 STEEL SPACER
M6500	M6500	.500 STEEL SPACER
M6550	M6550	.550 STEEL SPACER
M6562	M6562	.562 STEEL SPACER
M6800	M6800	.800 STEEL SPACER
M8062	M8062	.062 STEEL SPACER
M8093	M8093	.093 STEEL SPACER
M81005	M81005	.1005 STEEL SPACER
M8165	M8165	.165 STEEL SPACER
M8248	M8248	.248 STEEL SPACER
M8295	M8295	.295 STEEL SPACER
M8375	M8375	.375 STEEL SPACER
M8600	M8600	.600 STEEL SPACER
M8700	M8700	.700 STEEL SPACER
MPN600131	MSP-491	BEARING SPACER "A" RATIO
MPN600285	M8196 or M8190	MOUNTING SPACER (MHD8)
MPN600285	M8196	.196 STEEL SPACER
MPN600367	MSP-367	SPACER (DRIVESHAFT) (MHS10)
MPN600460	MSP-460	SPACER (DRIVESHAFT) (MHS10)
MPN600608	MSP-608	IDLER PIN SPACER (MHS10)

## SHIMS

MPN600281	MSH-011	SHIM FOR SHAFT SPRING
MPN600282	MSH-051	INPUT BEARING SHIMS
MPN600428	MSH-428	SPACER SHIMS (.112-.114) (MHS10)
MPN600429	MSH-429	SPACER SHIMS (.115-.117) (MHS10)
MPN600430	MSH-430	SPACER SHIMS (.118-.120) (MHS10)
MPN600431	MSH-431	SPACER SHIMS (.121-.123) (MHS10)
MPN600432	MSH-432	SPACER SHIMS (.124-.126) (MHS10)
MPN600599	MSH-599	SHIM (MHS10)

## PINS

MPN600212	MAP-145	SENSOR PIN
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## BALLS

MPN600109	MPB-001	MECHANICAL SHIFTER POPPET BALL
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## COVER CAPS

MPN600034	MCP-151	SHIFTER POPPET & SPRING CAP
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All items are Metaris manufactured. OEM part #'s are displayed for reference purposes only.

# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
<b>ALLEN HEAD CAP SCREWS</b>		
MPN600016	MAS-003	ALLEN HEAD SCREW FOR WIRE KIT
MPN600017	MAS-004	ALLEN HEAD SCREW FOR WIRE KIT
MPN600018	MAS-008	SHIFTER CAP ALLEN HEAD SCREW
MPN600019	MAS-009	SHIFTER CAP ALLEN HEAD SCREW
MPN600020	MAS-030	"SF" FLANGE ALLEN HEAD BOLTS
MPN600021	MAS-099	ALLEN HEAD SCREW FOR WIRE KIT
MPN600290	MAS-087	ALLEN HEAD BOLT (MHD8)
MPN600308	MAS-061	FLANGE ALLEN HEAD BOLTS
MPN600452	MAS-452	ALLEN HEAD SCREWS (MHS10)

<b>CAP SCREWS</b>		
MPN600035	MCS-011	END COVER CAP SCREW
MPN600036	MCS-025	PUMP TO FLANGE CAP SCREW
MPN600037	MCS-035	"SF" PUMP TO FLANGE MOUNTING BOLTS
MPN600152	MCS-042	"TP" PUMP TO FLANGE MOUNTING BOLTS
MPN600155	MCS-020	CAP SCREW
MPN600156	MCS-021	MOUNTING CAP SCREW (METRIC)
MPN600157	MCS-029	MOUNTING CAP SCREW FOR DEEP MOUNT
MPN600232	MCS-424-34	CAP SCREW
MPN600233	MCS-424-21	CAP SCREW (8 BOLT)
MPN600234	MCS-424-29	CAP SCREW
MPN600235	MCS-424-24	CAP SCREW
MPN600236	MCS-287-18	CAP SCREW
MPN600343	MCS-935	CAP SCREW
MPN600453	MCS-453	OUTPUT FLANGE CAP SCREW
MPN600454	MCS-453-10	FERRY HEAD CAP SCREW (MHS10)
MPN600516	MCS-445-1	CAP SCREW
MPN600524	MCS-022	CAP SCREW
MPN600525	MCS-023	CAP SCREW
MPN600573	MCS-573	BUTTON HEAD SCREW (MHS10)

<b>STUDS</b>		
MPN600136	MST-026	"MH6 & MH8" FLANGE STUDS
MPN600170	MST-423-15	6 BOLT MOUNTING STUD
MPN600175	MST-424-18	8 BOLT MOUNTING STUD
MPN600193	MST-423-12	6 BOLT MOUNTING STUD (DEEP MOUNT)
MPN600194	MST-426-16	MOUNTING STUD
MPN600195	MST-423-18	MOUNTING STUD
MPN600196	MST-423-20	MOUNTING STUD
MPN600197	MST-423-22	MOUNTING STUD
MPN600198	MST-423-24	MOUNTING STUD
MPN600199	MST-423-26	MOUNTING STUD



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600200	MST-423-28	MOUNTING STUD
MPN600201	MST-423-30	MOUNTING STUD
MPN600208	MST-423-16	6 BOLT METRIC MOUNTING STUD
MPN600209	MST-293-8	MOUNTING STUD
MPN600321	MST-424-44	MOUNTING STUD
MPN600398	MST-423-14	MOUNTING STUD
MPN600399	MST-423-16	MOUNTING STUD
MPN600400	MST-457-13	MOUNTING STUD
MPN600419	MST-451	MOUNTING STUD
MPN600514	MST-428-14	MOUNTING STUD
MPN600515	MST-428-16	MOUNTING STUD
MPN600593	MST-536	MOUNTING STUD
MPN600594	MST-424-21	MOUNTING STUD
MPN600604	MST-293-14	MOUNTING STUD
MPN600615	MST-424-36	MOUNTING STUD
MPN600624	MST-624	"DA" FLANGE STUDS

## WASHERS

MPN100195	MWA-195	WASHER (IC) FLANGE
MPN600141	MWA-001	"SF" PUMP TO FLANGE WASHER
MPN600142	MWA-002	AIR SHIFTER ALUMINUM WASHER
MPN600143	MWA-003	SEALING WASHER
MPN600144	MWA-004	WIRE KIT WASHER
MPN600145	MWA-005	"TP" PUMP TO FLANGE WASHER
MPN600146	MWA-009	END CAP COVER WASHER
MPN600147	MWA-010	ALUMINUM WASHER
MPN600149	MWA-016	ALUM. WASHER FOR WIRE KIT
MPN600150	MWA-431	ANTI-FRICTION WASHER "A" RATIO
MPN600162	MWA-020	6 BOLT MOUNTING WASHER
MPN600185	MWA-614	#10 LOCK WASHER
MPN600210	MWA-018	8 BOLT MOUNTING WASHER
MPN600255	MWA-019	8 BOLT METRIC MOUNTING WASHER
MPN600288	MWA-013	SEALING WASHER
MPN600289	MWA-452	ANTI FRICTION WASHER
MPN600338	MWA-338	WASHER (MHS10)
MPN600410	MWA-410	WASHER FOR BRACKET
MPN600481	MWA-008	WASHER
MPN600523	MWA-002	SEALING WASHER
MPN600635	MWA-012	PUMP TO FLANGE WASHER

## NUTS

MPN600094	MNU-003	NYLOCK NUT
MPN600095	MNU-004	JAM NUT



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600096	MNU-008	WIRE KIT NYLOCK NUT
MPN600097	MNU-481	WIRE CLIP NUT
MPN600098	MNU-491	CLAMPING NUT FOR WIRE KIT
MPN600184	MNU-6028	10-24 MACHINE SCREW NUT
MPN600218	MNU-075	6 BOLT MOUNTING NUT
MPN600301	MNU-006	TOP LOCK MOUNTING NUT
MPN600550	MFN-099	3/8" FLANGE NUT
MPN600603	MNU-603	8 BOLT MOUNTING NUT

## FITTINGS

MPN600040	MFI-216-E	90° QUICK CONNECT AIR FITTING
MPN600041	MFI-216-S	180° QUICK CONNECT AIR FITTING
MPN600171	MFI-44N	1/4 NPT x 1/4 NPT NIPPLE
MPN600174	MFI-24T	1/8 NPT x 1/4 NPT TUBE STRAIGHT FITTING
MPN600344	MFI-344	FITTING
MPN600355	MFI-355	FITTING
MPN600358	MFI-358	FITTING (MHS6)
MPN600420	MFI-420	TRANSMISSION FITTING
MPN600423	MFI-423	TEE FITTING
MPN600472	MFI-472	FITTING
MPN600571	MFI-0571	FITTING
MPN600580	MFI-580	90° FITTING
MPN600581	MFI-581	STRAIGHT FITTING
MPN600634	MFI-634	1/8 NPT x 1/4 TUBE 90° FITTING
MPN600652	MFI-652	TEE FITTING

## SCREWS

MPN600183	MMS-463	10-24 x 5/8 MACHINE SCREW
MPN600305	MSC-119	MOUNTING SCREWS
MPN600306	MSC-306	MOUNTING SCREWS
MPN600411	MMS-411	MACHINE SCREWS
MPN600419	MGS-419	GUIDE SCREWS (MHS10)
MPN600572	MAS-572	SOLENOID ADAPTER SCREWS (MHS10)

## SET SCREWS

MPN099011		SET SCREW (530 ADAPTER GEAR)
MPN600135	MSS-005	SET SCREW

## WOODRUFF KEYS

MPN600151	MWK-516	WOODRUFF KEY
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## STUD KITS

MPN600214	MH8170-200X	MH8 STD. STUD KIT
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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600215	MH8170-201X	MH8 DEEP MOUNT STUD KIT
MPN600216	MH170-68X	MH8 METRIC STUD KIT
MPN600237	MH8170-76X	MH6 STD. STUD KIT
MPN600238	MH170-96X	STUD KIT
MPN600240	MH8170-77X	MH6 DEEP MOUNT STUD KIT
MPN600241	MH170-2X	STUD KIT
MPN600242	MH170-3X	STUD KIT
MPN600243	MH170-4X	STUD KIT
MPN600244	MH170-5X	STUD KIT
MPN600245	MH170-6X	STUD KIT
MPN600246	MH170-7X	STUD KIT
MPN600247	MH170-8X	STUD KIT
MPN600248	MH170-9X	STUD KIT
MPN600249	MH170-78X	MH6 METRIC STUD KIT
MPN600250	MH8170-129X	STUD KIT
MPN600251	MH8170-8X	STUD KIT
MPN600252	MH8170-15X	STUD KIT
MPN600253	MH8170-131X	STUD KIT
MPN600254	MH170-7X	STUD KIT
MPN600322	MH170-16X	STUD KIT
MPN600475	MH8170-202X	MHD8 STD. STUD KIT
MPN600475	MH8170-195X	MHD8 DEEP MOUNT STUD KIT
MPN600518	MH8170-101X	MHS6 STD. STUD KIT
MPN600519	MH170-103X	MHS6 METRIC STUD KIT
MPN600522	MH170-86X	MHS10 STD. STUD KIT
MPN600529	MH8170-203X	MHD8 METRIC STUD KIT
MPN600595	MH8170-190X	STUD KIT
MPN600605	MH8170-95X	STUD KIT
MPN600606	MH170-89X	STUD KIT
MPN600613	MH8170-14X	STUD KIT
MPN600614	MH8170-179X	STUD KIT
MPN600618	MH8170-18X	STUD KIT
MPN600619	MH8170-195X	STUD KIT

SEAL KITS		
MPN100736	MSK-011X	AIR SHIFTER SEAL KIT
MPN600264	MSK-001X	MH6 "RA & RB" SEAL KIT
MPN600265	MSK-002X	MH6 "SE" SEAL KIT
MPN600266	MSK-003X	MH6 "TP" SEAL KIT
MPN600267	MSK-004X	MH6 "SF" SEAL KIT
MPN600268	MSK-005X	MH8 "RA & RB" SEAL KIT
MPN600269	MSK-006X	MH8 "SE" SEAL KIT
MPN600270	MSK-007X	MH8 "SF" SEAL KIT



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
MPN600271	MSK-008X	MH8 "TP" SEAL KIT
MPN600526	MSK-009X	MHD8 "RJ" SEAL KIT
MPN600527	MSK-010X	MHD8 "SE" SEAL KIT

## CONVERSION KITS

MPN600032	MCK-005X	CONSTANT MESH CONVERSION KIT
MPN600224	MCK-006X	"SF" CONVERSION KIT
MPN600227	MCK-001X	"RA" CONVERSION KIT
MPN600229	MCK-003X	"RB" CONVERSION KIT
MPN600230	MCK-004X	"TP" CONVERSION KIT
MPN600231	MCK-002X	"SE" CONVERSION KIT
MPN600544	MCK-007X	"RA" GREASABLE CONVERSION KIT
MPN600545	MCK-008X	"RB" GREASABLE CONVERSION KIT

## OVERHAUL KITS

MPN600638	MOK-008X	MH8 "TP" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600639	MOK-004X	MH6 "SF" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600640	MOK-003X	MH6 "TP" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600641	MOK-006X	MH8 "SE" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600642	MOK-001X	MH6 "RA & RB" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600643	MOK-002X	MH6 "SE" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600644	MOK-005X	MH8 "RA & RB" (AIR SHIFT ONLY) OVERHAUL KIT
MPN600645	MOK-007X	MH8 "SF" (AIR SHIFT ONLY) OVERHAUL KIT

## INSTALLATION KITS

MPN600202	MH-101X	SINGLE CONTROLLER AIR KIT
MPN600203	MH-201X	DUAL CONTROLLER AIR KIT W/KICKOUT
MPN600204	MH-202X	DUAL CONTROLLER AIR KIT W/O KICKOUT
MPN600205	M118365X	AIR PROTECTION VALVE KIT
MPN600307	MH-102X	SINGLE CONTROLLER ADAPTER KIT
MPN600503	MH-103X	SINGLE CONTROLLER ONLY KIT
MPN600637	MH-104X	FEATHERING VALVE INSTALLATION KIT

## BRACKETS

MPN600030	MCB-331	CABLE BRACKET
MPN600031	MCC-471	WIRE HOLING CLIP
MPN600092	MLV-321	LEVER BRACKET
MPN600093	MLV-341	LEVER ROD
MPN600130	MSP-131	PIVOT WHOLE BRACKET
MPN600304	MCP-833	SINGLE CONTROLLER ADAPTER BRACKET
MPN600354	MMB-354	"L" MOUNTING BRACKET
MPN600357	MBR-357	BRACKET



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# P.T.O. PRODUCT LISTING

METARIS #	ALTERNATIVE #	DESCRIPTION
<b>HOSE</b>		
MPN600165	MHO-1004	1/4" AIR HOSE
MPN600391	MHO-391	TRANSMISSION PRESSURE HOSE (MHS10)
MPN600450	MHO-450	PRESSURE HOSE (MHS10)
MPN600653	MHO-653	LUBE HOSE (MHS10)

<b>TOWERS</b>		
MPN600221	MTO-08	8" CONTROL TOWER
MPN600222	MTO-10	10" CONTROL TOWER
MPN600223	MTO-12	12" CONTROL TOWER

<b>MISC</b>		
MPN600177	CP-021	NAME COVER PLATE FOR CONTROLLER
MPN600312	PBK-1000	DUMP PUMP SUPPORT BRACKET KIT
MPN600663		1/8"-27 NPT AIR BREATHER

# P.T.O. HOSE KITS LISTING

METARIS #	ALTERNATE #	DESCRIPTION
MPN600295	MHK-12-6-2L	2 LINE - HOSE KIT
MPN600296	MHK-14-8-2L	2 LINE - HOSE KIT
MPN600297	MHK-16-8-2L	2 LINE - HOSE KIT
MPN600298	MHK-20-12-2L	2 LINE - HOSE KIT
MPN600293	MHK-09-08-3L	3 LINE - HOSE KIT
MPN600292	MHK-12-12-3L	3 LINE - HOSE KIT
MPN600294	MHK-16-24-3L	3 LINE - HOSE KIT
MPN600299	MHK-20-24-3L	3 LINE - HOSE KIT



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# P.T.O. HYDRAULIC TANKS LISTING

METARIS #	ALTERNATE #	DESCRIPTION	Dimensions	Lbs.	Shipping Lbs.
MPN098708*	MHA-2000*	50 gal. Poly Upright Tank	35" X 16" X 26"	80#	
MPN098709*	MHA-3000*	50 gal. Steel Upright Tank	34" X 13" X 36"	150#	
MPN099295	MHA-30-100	100 gal. Steel Upright Tank	48" X 16" X 30"	248#	
MPN098710*	MHA-3070*	70 gal. Steel Upright Tank	46.5" X 13" X 26"	135#	52#
MPN099313	MHA-3100	10 gal. Steel Sidemount	12" X 14" X 14"	45#	
MPN099312	MHA-3107	7 gal. Steel Sidemount	12" X 12" X 12"	40#	
MPN099251*	MHA-3150	15 gal. Steel Sidemount	16" X 14" X 16"	62#	
MPN099252*	MHA-3250	25 gal. Steel Sidemount	20" X 15" X 20"	84#	
MPN099253*	MHA-3300	30 gal. Steel Sidemount	24" X 15" X 20"	98#	
MPN099254	MHA-3400	40 gal. Steel Sidemount	32" X 15" X 20"	126#	
MPN098711*	MHA-3500*	50 gal. Steel Saddlemount Tank	24" Dia. X 27" Long	44#	
MPN099306	MHA-35-100	100 gal. Steel Saddlemount Tank	24" Dia. X 51" Long	138#	88#
MPN099302	MHA-3525	25 gal. Steel Saddlemount Tank	24" Dia. X 15" Long	57#	44#
MPN099303	MHA-3535	35 gal. Steel Saddlemount Tank	24" Dia. X 19" Long	62#	44#
MPN099304	MHA-3560	60 gal. Steel Saddlemount Tank			
MPN099305	MHA-3575	75 gal. Steel Saddlemount Tank	24" Dia. X 39" Long	115#	63#
MPN101860	MHA-4000	50 gal. Steel Upright Tank	34" X 13" X 26"	75#	12#
MPN098712*	MHA-4000-2*	50 gal. Upright Aluminum Tank	34" X 13" X 26"	77#	
MPN099297	MHA-4035	35 gal. Upright Aluminum Tank			
MPN100295	MHA-4070	70 gal. Upright Aluminum Tank	46.5" X 13" X 26"		
MPN107357	MHA-4070-2-SS***	70 gal. Upright Aluminum Tank	46.5" X 13" X 26"		
MPN098713*	MHA-4070A-C*	70 gal. Upright Aluminum Tank	46.5" X 13" X 26"	52#	
MPN099314	MHA-4150	15 gal. Aluminum Sidemount	16" X 14" X 16"	31#	
MPN098714*	MHA-4500*	50 gal. Aluminum Saddlemount Tank	24" Dia. X 27" Long	40#	44#
MPN100622	MHA-4500-2-STG-ST**-SS	50 gal. Aluminum Saddlemount Tank	24" Dia. X 27" Long	40#	44#



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# P.T.O. HYDRAULIC TANKS LISTING

METARIS #	ALTERNATE #	DESCRIPTION	Dimensions	Lbs.	Shipping Lbs.
MPN098715*	MHA-4500SS***	50 gal. Aluminum Saddlemount Tank	24" Dia. X 27" Long	40#	44#
MPN099311	MHA-45-100	100 gal. Aluminum Saddlemount Tank	24" Dia. X 51" Long	92#	88#
MPN099250	MHA-45-100SS	100 gal. Aluminum Saddlemount Tank	24" Dia. X 51" Long	92#	88#
MPN099307	MHA-4525	25 gal. Aluminum Saddlemount Tank	24" Dia. X 15" Long	29#	44#
MPN099104*	MHA-4525SS***	25 gal. Aluminum Saddlemount Tank	24" Dia. X 15" Long	29#	44#
MPN099308	MHA-4535	35 gal. Aluminum Saddlemount Tank	24" Dia. X 19" Long	32#	44#
MPN099389	MHA-4535-SS	35 gal. Aluminum Saddlemount Tank	24" Dia. X 19" Long	32#	44#
MPN099309	MHA-4560	60 gal. Aluminum Saddlemount Tank	24" Dia. X 24" Long		44#
MPN099020*	MHA-4560SS***	60 gal. Aluminum Saddlemount Tank	24" Dia. X 24" Long		44#
MPN099310	MHA-4575	75 gal. Aluminum Saddlemount Tank	24" Dia. X 39" Long	55#	63#
MPN107356*	MHA-4575SS***	75 gal. Aluminum Saddlemount Tank	24" Dia. X 39" Long	55#	63#
MPN600559	MHJM3401	40 gal. Steel Sidemount			
MPN600560	MHJM3402	40 gal. Steel Sidemount			
MPN100982	MHJM3525-2ST	25 gal. Steel Saddlemount Tank			
MPN600546	MHJM3535-2ST	35 gal. Steel Saddlemount Tank			

\* THESE ARE TANKS WE HAVE IN STOCK

\*\*THESE MOUNTING KITS ARE SENT SEPERATELY DUE TO PACKAGING DIFFERENCES. THERE ARE NO EXTRA TANK CHARGES.

\*\*\* HAS STAINLESS STRAPS

IF THERE IS NO MOUNTING KIT WEIGHT THAN THE MOUNTING KIT IS INCLUDED WITH THE TANK PACKAGING.



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# P.T.O. PRODUCT LISTING

## WARRANTY POLICY AND PROCEDURES

### WARRANTY

Metaris Inc. and Metaris Corp. hereinafter "Metaris", warrants all of its product to be free from defects in material and workmanship under normal operating conditions and proper application in accordance with the specifications for operation as described by the manufacturer for the period of twelve (12) months in service or eighteen (18) months from the original invoice date, whichever is sooner.

### LIMITATIONS ON WARRANTY

This warranty is expressly in lieu of any other warranties expressed or implied. Buyers sole and exclusive remedy under this Warranty shall be limited to the repair, replacement or exchange of warranted products at our option, F.O.B. our factory, or designated service center.

No special, incidental, consequential or other damage shall be recoverable. Metaris shall not be liable for consequential damages or contingent liabilities including, but not limited to, loss of life, personal injury, loss of crops, loss due to water or fire damage, loss of business income, down time costs and trade or other commercial loss arising out of failure of the product. Metaris will in no event be liable for any sum in excess of the price received by it for the product for which liability is claimed or asserted.

No products shall be returned without prior authorization from Metaris. Buyers and their Agents shall prepay all transportation charges for the return of such products to a Metaris location or designated service center. There will be no acceptance of any charges for labor and/or parts incidental to the removal or remounting of products repaired or replaced under Warranty.

The above Warranty does not cover conditions over which Metaris has no control, including, without limitation, contamination, pressure in excess of recommended maximum, products damaged or subject to accident abuse or misuse after shipment from our factory, products altered or repaired by anyone other than Metaris personnel, authorized Metaris factory personnel or persons so designated in writing by Metaris prior to commencement of said work.

A return goods authorization number must be obtained from Metaris or a Metaris authorized service center, or a Metaris authorized agent prior to any products being returned for Warranty.



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## METARIS BRAND REPLACEMENT PARTS

Our extensive inventory assures you of prompt shipping of pumps and parts anywhere in the world.

Our parts are 100% interchangeable with OEM products. We are committed to high quality, zero defects, and getting your orders out correctly and on time.

Whatever your application, Metaris has a high quality replacement product 100% backed by our commitment to service.

**WE WANT TO SUPPLY ALL YOUR P.T.O. PRODUCT NEEDS.**



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