

Ditch Witch®


RT105

ISSUE NO. 10PL-12/19
For Replacement Copy Order **P/N 053-2889**

This product and its use may be covered by one or more patents at <http://patents.charlesmachine.works>.

This manual contains information concerning
the following models: **RT105**

Copyright 2016, 2017, 2018, 2019 by The Charles Machine Works, Inc.

 **Ditch Witch**, Ditch Witch, AutoCrowd, Roto Witch, and CMW are registered trademarks of The Charles Machine Works, Inc.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

DECAL LOCATION RT105M

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	270-6430		RT105M SERVICE DECAL KIT	
1	273-475	1	WARNING READ OPERATORS MANUAL	SEE FOOTNOTE 4
2	270-7380	1	DIGGING CHAIN CONTROL	
3	270-5338	1	ULTRA LOW SULFUR FUEL	
4	270-7058	1	FORWARD / NEUTRAL / REVERSE	
5	270-2040	1	OPERATOR'S MANUAL	
6	273-452	1	NOTICE COOLANT	
7	270-7390	1	LUBRICATION CHART	
8	270-6703	2	LOGOTYPE	
9	275-449	1	LOGO PLACARD	SEE FOOTNOTE 1
10	274-318	4	TIE DOWN	
11	270-6959	2	RT105M MODEL ID	
12	270-6912	1	SWITCH PLATE DECAL	
13	273-459	1	WARNING NO ETHER	
14	270-6689	1	FUSE/RELAY BLOCK	SEE FOOTNOTE 2
15	270-5131	1	BATTERY DISCONNECT	USE ONLY BATTERY OFF PORTION OF DECAL
16	270-5127	1	BATTERY	
17	270-6380	1	NOTICE BATTERY DISCONNECT	
18	275-120	1	RESERVOIR (THF)	
19	700-133	1	WARNING ONE CALL	SEE FOOTNOTE 4
20	270-6738	1	LOGO	
21	273-423	1	CAUTION HOT PARTS	
22	275-185	2	WARNING SINGLE OPERATOR	SEE FOOTNOTE 4
23	270-5337	1	ULTRA LOW SULFUR FUEL	SEE FOOTNOTE 3
24	275-303	2	WARNING ROLLOVER	
25	270-6406	1	OPERATOR MANUAL REPLACEMENT	LOCATE NEAR MANUAL BOX
26	270-6368	1	DIESEL EXHAUST FLUID	
27	270-1023	1	NOTICE HYDRAULIC OIL LEVEL	
28	275-033	1	CAUTION ELECTRICAL SYSTEM	
29	270-8178	1	RED HI VIS 1.5" REFLECTORS	

FOOTNOTES

1. NOT PART OF KIT
2. PLACE ON INSIDE OF BUSSMAN COVER
3. CAB OPTION ONLY
4. LOCATE ON BLACK GLASS WHEN USED IN CAB

FAN MOUNT

RT105/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-091	8	LOCK WASHER (5/16")	
2	106-063	4	SCREW (M8-1.25 X 40MM, 10.9)	
3	106-255	4	WASHER (.406")	
4	106-892	4	SCREW (M8-1.25 X 50MM)	
5	107-096	4	LOCKNUT (M8-1.25, NLK)	
6	194-193	1	FAN ADAPTER	
7	195-2248	1	FAN, 22.25" DIA 10 BLADE	
8	362-2050	1	FAN HUB CAP	

NOT SHOWN:

FOOTNOTES:

NOTE:

COOLER ENGINE MOUNTING

RT125Q/RT125/RT105

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-069	12	WASHER (.406")	
2	105-894	6	LOCKNUT(M10-1.50,PRV TRQ,10.9)	
3	106-142	4	SCREW (M10-1.50 X 65MM)	
4	106-163	4	FLG SCREW (M8-1.25 X 30MM)	
5	106-164	4	FLG LK SCREW (M10-1.50 X 30MM)	
6	106-386	4	FLG LOCKNUT (M8-1.25)	
7	106-387	2	FLG LOCKNUT (M10-1.50)	
8	106-628	2	SCREW (M10-1.50 X 60MM)	
9	116-128	2	SHOCK MOUNT	
10	195-1871	4	ISOLATOR, 1.31OD X 1.25LG H MOUNT 80	
11	300-0401	1	TOP RADIATOR SUPPORT	

NOT SHOWN:

FOOTNOTES:

NOTE:

EXHAUST SENSORS

RT105/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-085	2	LOCKNUT (1/4"-NC)	
2	105-1104	1	ABRASION SLEEVE (1.00" X 17")	
3	105-1778	2	SCREW#12-24 X 1-1/4", HWH SLF-DRILL TEK 5	
4	105-856	2	BOLT (1/4-NC X 1 1/4")	
5	106-381	1	FLG LK SCREW IM8-1.25 X 25MM	
6	106-385	1	FLG LOCKNUT IM6-1.00	
7	106-386	3	FLG LOCKNUT IM8-1.25	
8	107-095	2	FLG SCREW IM8-1.25 X 16MM	
9	110-126	1	BOLT-ON CLAMP (1/2")	
10	215-1678	1	CONNECTOR MOUNT	
11	362-2383	1	BAR, AMBIENT SENSOR MOUNT	
12	500-1245	1	SENSOR, DEUTZ AMBIENT TEMPERATURE	
13	500-1251	1	HOSE, DEUTZ PRESSURE LINE	DEUTZ P/N 0460 2269, CUT HOSE TO 19", CLAMP SERVICE P/N 500-2700
14	500-2561	1	DEUTZ, EXHAUST TEMP SENSOR	DEUTZ P/N 0421 0188, SEE FOOTNOTE 1
15	500-2562	1	DEUTZ, EXHAUST SENSOR	DEUTZ P/N 0421 6425, SEE FOOTNOTE 1
16	500-2563	1	SENSOR, DEUTZ NOX UPSTREAM	DEUTZ P/N 0421 9803
17	500-2564	1	SENSOR, DEUTZ PRESSURE	DEUTZ P/N 0421 9378, SEE FOOTNOTE 1
18	500-2692	1	SENSOR, DEUTZ NOX DOWNSTREAM	DEUTZ P/N 0421 9804
19	500-2695	1	DOSING MODULE	SERVICE P/N SEAL RING 500-2743
20	500-2696	1	TUBE, DEUTZ MIXING	
21	500-2699	1	BOLT, DOSING MODULE MOUNTING	TORQUE TO 8N-m

NOT SHOWN:

FOOTNOTES:

1) APPLY ANTI-SEIZE TO THREADS BEFORE INSTALLING

NOTE:

AIR FILTER SUB

RT105/RT125/RT125Q

ENDS W/SN_____

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-003	1	FLG LOCKNUT (5/16-NC)	
2	105-117	4	WASHER (5/16")	
3	105-1358	2	T-BOLT CLAMP (3.06" - 3.38")	
4	105-829	1	FLG LK BOLT (1/2-NC X 1")	
5	106-162	11	FLG SCREW (M8-1.25 X 20MM, GD8)	
6	106-163	2	FLG SCREW (M8-1.25 X 30MM)	
7	106-380	4	FLG LK SCREW (M8-1.25 X 16MM)	
8	106-386	6	FLG LOCKNUT (M8-1.25)	
9	106-551	4	CLIP NUT (M8-1.25)	
10	106-561	2	LOCKNUT (M8-1.25,PRV TRQ,10.9)	
11	106-991	4	FLG LK SCREW (M8-1.25 X 20MM)	
12	107-078	1	SCREW (M8-1.25 X 90MM)	
13	107-135	3	CLIP NUT (M8-1.25)	
14	108-156	2	WASHER (5/16")	
15	108-172	1	WASHER (1/2") ZP	
16	110-391	2	WORM CLAMP (4-3/4" TO 5-5/8")	
17	118-324	1	T-BOLT CLAMP (3.75" - 4.06")	
18	156-241	1	STREET ELBOW (O2N-O2NF90)	
19	194-147	1	ELEMENT (PRIMARY)	SEE FOOTNOTE 1
20	194-148	1	ELEMENT (SECONDARY)	SEE FOOTNOTE 1
21	194-761	1	DISCHARGE VALVE	SEE FOOTNOTE 1
22	195-2125	1	HOSE, AIR INTAKE	
23	195-2260	1	INTAKE TUBE	
24	195-2307	1	INLET HOOD, METAL	
25	195-2369	1	INTAKE ELBOW (4.5")	
26	215-2160	1	AIR RESTRICTION SENSOR	
27	300-0399	1	TUBE, AIR INLET TRANSITION	
28	300-0430	1	SHEET, AIR FILTER MOUNT	
29	300-0476	1	AIR FILTER COVER	
30	300-0500	1	AIR FILTER COVER TOP	
31	300-0504	1	SHEET, AIR DEFLECTOR MOUNT	
32	300-0640	1	TUBE, AIR INLET RING	
33	309-877	1	MOUNTING BAND (9.330")	
34	353-264	1	BOSS	
35	362-2168	1	INSULATION, AIR FILTER BARRIER	BEGINS WITH S/N_____
36	362-2213	1	PANEL, AIR DEFLECTOR	SEE FOOTNOTE 2

NOT SHOWN:

FOOTNOTES:

1. FILTER ASSEMBLY 195-2261; INCLUDES HOUSING, PRIMARY FILTER, SECONDARY FILTER, DISCHARGE VALVE, AND CAP
2. BEGINS WITH S/N_____; USE AS REPLACEMENT PART W/UNITS THAT IMPLEMENT PARTS PAGES ID0437912 & ID0440711

NOTE:

AXLE MOUNT

RT105/RT125

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-0142	1	LEFT RT100/RT120 TILT CYLINDER MOUNT	
2	107-089	4	SCREW (M24-3.00 X 260MM, 10.9)	USE LOCTITE 609
3	106-625	4	WASHER (M24)	
4	307-303	2	CLAMP PLATE	
5	106-489	4	FLG NUT (M24-3.00, 10.9)	
6	302-0140	1	RIGHT RT100/RT120 TILT CYLINDER MOUNT	
7	183-767	2	TAPERED PIN (1.000" X 2.36")	
8	181-981	2	TAPERED INSERT (1")	
9	106-164	2	FLG LK SCREW (M10-1.50 X 30MM)	
10	178-1004	1	INSIDE BUSHING (4.928" ID, 5.500" OD)	
11	301-4122	1	AXLE MOUNT, OPEN	
12	106-831	8	FLG SCREW (M20-2.50X60MM,10.9)	USE LOCTITE 271 OR EQUIVALENT
13	106-356	8	FLG NUT (M20-2.50, 10.9)	
14	178-1003	1	OUTSIDE BUSHING (4.928" ID, 5.500" OD)	
15	301-4121	1	AXLE MOUNT, CLOSED	
16	115-003	2	ZERK (1/4-NF, STR)	

NOT SHOWN:

FOOTNOTES:

NOTE:

SERVICE AND PARK BRAKE RT105

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	160-1291	1	DRIVELINE FLANGE	
2	160-1036	1	BRAKE DISC	
3	107-980	4	SCREW (M10-1.50 X 50MM, 10.9)	
4	105-894	4	LOCKNUT(M10-1.50,PRV TRQ,10.9)	
5	105-022	2	BOLT (3/8-NC X 4")	
6	105-162	1	BOLT (3/8-NC X 2-1/4")	
7	105-2147	2	SHLD BLT (M16 X 100MM,M12-1.75)	
8	105-2138	1	CLEVIS PIN (1/2" X 1.267", ZP)	
9	106-030	2	LOCK WASHER (M12)	
10	106-089	2	HEX NUT (M12-1.75, 10.9) ZP	
11	105-523	1	COTTER PIN (1/25" X .750")	
12	105-2149	1	CLEVIS (M10)	
13	106-211	1	WASHER (.531")	
14	160-1351	1	BRAKE LEVER	
15	160-1033	1	BRAKE CALIPER	SEE FOOTNOTE 1
16	160-1066	2	BRAKE PAD (INDIVIDUAL)	
17	300-1958	1	RIGHT BRAKE BRACKET	
18	106-797	2	SCREW (M12-1.75 X 35MM, SOC)	
19	156-282	1	FLARE FITTING (O3TM-04TFM)	
20	300-1960	2	SPACER	
21	300-1959	1	RIGHT BRAKE BRACKET	
22	105-678	2	SCREW (M12-1.75 X 140MM, SOC)	
23	106-725	2	SCREW (M10-1.50 X 65MM, SOC)	
24	106-396	6	WASHER (M10, HARDENED)	
25	215-2579	1	PRESSURE SWITCH (300 PSI, NC , DT06-2S, EPDM)	
26	302-1679	1	BRAKE COVER	
27	105-630	1	NUTSERT(M6X1.0).70-4.20THK	
28	302-1816	1	BRAKE BLEED COVER	
29	106-712	2	FLG SCREW (M6-1.00 X 16MM)	
30	160-773	1	BRAKE CALIPER	SEE FOOTNOTE 2 & 3
31	150-4708	1	SAHR CHAMBER (375 PSI)	
32	515-538	1	HOSE (O60FX90S-15"-3000)	
33	106-397	2	WASHER (M12, HARDENED)	
34	105-273	2	SCREW (M12-1.75 X 30MM)	
35	160-1041	1	MECHANICAL CALIPER SPACER	
36	302-4205	1	WELDMENT, SAHR MOUNT	
37	150-3883	1	FLOW CHECK (O6S-060, 5 PSI, .055 ORF)	
38	149-862	1	BRAKE HOSE (3/16T X 34")	
39	105-2544	2	WAVE SPRING WASHER (O.625")	INSTALL UNDER COTTER PIN
40	105-2543	2	MACHINERY BUSHING (O.625" X 18GA)	INSTALL UNDER COTTER PIN

NOT SHOWN:

FOOTNOTES:

1. INCL REF NO. 19 (160-1066), TORQUE MOUNTING BOLTS TO 180- 200 FT - LBS. REPLACEMENT MOUNTING BOLT 500-2480.
2. INSTALL ITEM #36 (160-1041) BETWEEN PARK BRAKE (160-733) CALIPER HALVES. RE-ASSEMBLE USING LONGER BOLTS, ITEMS #32 (105-162) & #31 (105-022) RE-USE STEEL FLAT WASHERS ON CALIPER. TORQUE BOLTS TO 30 - 35 FT/LBS.
3. TURN ADJUSTMENT NUT CLOCKWISE UNTIL TIGHT AGAINST DISK AND LOOSEN 1.5 TURNS BEFORE ATTACHING TO 105-2149.

NOTE:

SHIFT CYLINDER ASSEMBLY

RT105

ENDS WITH S/N DWPRT105KH0000034

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-115	1	JAM NUT (5/16-NF)	
2	110-575	1	BALL JOINT 5/16	
3	105-033	1	BOLT (5/16-NC X 2")	
4	301-8993	1	CLEVIS	USE LOCTITE 242 ON THREADED HOLE FOR CYLINDER
5	107-574	1	ROD END (1/2-NF, FM)	
6	301-8991	1	LINK ROD (1/2")	SEE FOOTNOTE 1
7	153-241	2	CONNECTOR (040-02N)	
8	117-608	1	ABRASION SLEEVE (1.00" X 15")	
9	500-2670	1	HYD ELECT CART VALVE (HF SV08-47C 3P4W)	SEE FOOTNOTE 2
10	500-1311	2	SOLENOID COIL, 12VDC w/ ZENER DIODE	SEE FOOTNOTE 2
11	154-226	1	CONNECTOR (040-06S90)	
12	154-220	1	CONNECTOR (040-06S)	
13	154-255	1	UNION (040-040FX90)	
14	105-003	2	FLG LOCKNUT (5/16-NC)	
15	107-573	1	1/2-20 UNF JAM NUT (LH)	
16	105-044	1	JAM NUT (1/2-NC)	
17	105-285	1	BOLT (5/16-NC X 1-3/4")	
18	110-126	1	BOLT-ON CLAMP (1/2")	
19	302-1318	2	CYLINDER SWITCH MOUNT	POSITION AGAINST ROD END CRIMP RING ON CYLINDER
20	105-2102	2	WORM CLAMP (1-1/2" TO 2-1/2", 5/16" BAND)	
21	215-2674	2	MAGNETIC SWITCH (PNP SOLID STATE, NO, M8 CONN)	
22	107-004	1	FLG LK SCREW (M12-1.75 X 45MM)	
23	106-354	1	FLANGE NUT (M12-1.75)	
24	515-437	1	HOSE (040FX90-21"-3000)	
25	154-802	1	HOSE (040FX90S-26"-3000)	
26	150-4981	1	CYL (11.0625 X 2.0 X .375, MAG PISTON)	
27	106-539	4	JAM NUT (M8-1.25)	
28	106-892	2	SCREW (M8-1.25 X 50MM)	
29	106-397	2	WASHER (M12, HARDENED)	

NOT SHOWN:

FOOTNOTES:

1. AFTER INSTALLATION OF SHIFT CYLINDER ON GEARBOX THE CYLINDER SHOULD NOT APPLY FORCE ON SHIFT LEVERS IN BOTH THE EXTENDED OR RETRACTED POSITION
2. INSTALL IN 150-4820 VALVE FOR RT105 TRANSFER CASE SHIFT. TORQUE 500-2670 TO 19-21 FT-LBS. TORQUE 500-1311 SOLENOID NUT TO 5-6 FT-LBS

NOTE:

**AXLE
DOUBLE JOINT
STEERABLE**

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	499-495	2	DOUBLE JOINT	
2.	500-1266	2	THRUST WASHER	
3.	500-1267	2	WASHER	
4.	500-1268	2	SNAP RING	

NOT SHOWN:

FOOTNOTES:

NOTE:

**AXLE
DIFFERENTIAL
STEERABLE**

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	499-483	1	DIFFERENTIAL KIT	
2.	107-346	12	LK SCREW (M10-1.50 X 75mm)	
3.	107-348	2	SCREW (M6-1.00 X 10mm)	
4.	501-893	2	RING NUT	
5.	499-484	2	BEARING	USED ON ALL MODELS. SIZE: 90X50X21.75mm
6.	499-485	1	SLEEVE	
7.	499-486	4	PIN	
8.	500-2006	1	BEARING	REPLACES ONE 499-484 ON NEWER MODELS. SIZE: 90X55X23mm

NOT SHOWN:

FOOTNOTES:

NOTE:

STEERING SENSOR ASSEMBLY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-0082	1	SWITCH DISK	
2	300-0083	1	BOX TOP	USE 256-603 SILICONE TO SEAL BOX
3	125-786	2	NYLINER BUSHING 5/8	
4	300-0084	1	SHAFT	
5	300-0085	1	BOX ARM	
6	110-290	1	ROD END (1/2-NF, FM)	
7	107-574	1	ROD END (1/2-NF, FM)	
8	300-0086	1	CONTROL ROD 1/2 X 3.75	
9	300-0087	1	BOX WELDMENT	
10	115-349	1	GROMMET (1/2")	
11	105-1056	2	SCREW (M6-1.00 X 40MM)	
12	105-1491	4	SCREW, HEX HEAD (#6-32 X 3/4)	
13	105-117	2	WASHER (5/16")	
14	106-380	2	FLG LK SCREW (M8-1.25 X 16MM)	
15	107-859	4	NUT, LOCK, #6-32, NYLON INSERT	
16	107-573	1	1/2-20 UNF JAM NUT (LH)	
17	105-002	1	BOLT (1/2-NC X 2 1/4")	
18	105-048	1	BOLT (1/2-NC X 1-1/2")	
19	105-065	2	LOCKNUT (1/2-NC)	
20	181-634	1	BOSS	
21	105-052	2	BOLT (3/8-NC X 1-1/4")	
22	105-053	2	NUT (3/8 NC) HEX	LOCTITE 242 OR EQUIVALENT
23	106-447	1	JAM NUT (1/2-NF)	
24	215-1568	2	SWITCH	SEE F/N 1
25	157-645	6	WEATHER-PAC SEAL (2.80MM)	
26	214-104	6	PACKARD MALE TERMINAL	
27	215-224	2	3-WAY WP MALE CONNECTOR	
28	106-397	1	WASHER (M12, HARDENED)	
29	106-385	2	FLG LOCKNUT (M6-1.00)	

NOT SHOWN:

FOOTNOTES:

- ITEMS 24, 25, 26, & 27 CAN BE PURCHASED AS SERVICE PART 215-1591 (WITH A QUANTITY OF 2 NEEDED FOR THIS ASSEMBLY)

NOTE:

HYDRAULIC TANK ASSEMBLY

RT105/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-1326	1	HYDRAULIC TANK	
2	150-4793	1	BREATHER CAP (HYDRAULIC)	
3	106-708	4	SCREW (M12-1.75 X 60MM, 10.9)	
4	106-397	8	WASHER (M12, HARDENED)	
5	106-477	4	SCREW (M12-1.75 X 45MM, 10.9)	
6	106-551	10	CLIP NUT (M8-1.25)	
7	105-1795	12	FLG LK SCREW (M8-1.25 X 20mm) SERRATED	
8	302-1533	1	SHEET, BATTERY COVER	
9	302-1541	1	SHEET, BATTERY COVER EXTENSION	
10	106-767	3	SCREW (M8-1.25 X 20mm,BUT SOC)	
11	302-1557	1	SHEET, REAR SEALING PLATE	
12	302-1556	1	SHEET, SEAL SIDE	
13	150-4644	1	COMPARTMENT SEAL, OUTER	
14	150-4643	1	COMPARTMENT SEAL, INNER	
15	302-2417	1	MASTER FUSE COVER	
16	362-1421	2	HOLE PLUG	
17	362-2616	1	TANK TRANSITION SEAL	
18	150-2512	1	3 3/8"-12 O-RING SEAL TANK STRAINER	
19	152-150	1	PLUG, MAGNETIC (-16S)	
20	116-218	1	SIGHT GLASS (2")	
21	105-1392	1	GROMMET (1 1/2) .188 THK.	
22	105-1300	13	BULK EDGING (1/8", ADHESIVE, SOLD PER FT)	QTY IN INCHES
23	153-900	1	STRAINER	

NOT SHOWN:

FOOTNOTES:

NOTE:

COUNTERWEIGHT ASSEMBLY

RT105/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-399	12	WASHER (M20, HARDENED)	
2	375-1104	1	CASTING, R/H NOSE WEIGHT	
3	375-1105	1	CASTING, L/H NOSE WEIGHT	
4	106-486	6	FLG SCREW(M20-2.50X 90MM,10.9)	
5	302-1858	1	CASTING, PAINTED CENTER NOSE WEIGHT	
6	106-665	5	LOCKNUT (M20-2.50, 10.9)	
7	106-626	2	SCREW (M20-2.50 X 120MM, 10.9)	SEE FOOTNOTE 2
8	106-663	3	SCREW (M20-2.50 X 110MM, 10.9)	SEE FOOTNOTE 2
9	106-916	4	SCREW (M8-1.25 X 25MM, SOC)	
10	106-386	4	FLG LOCKNUT (M8-1.25)	
11	106-607	2	SCREW (M20-2.50 X 50MM, 10.9)	SEE FOOTNOTE 2
12	105-1898	4	FLG SCREW (M12-1.75 X 40MM) 10.9 ZP	
13	106-706	4	FLANGE LOCKNUT (M12-1.75)	
14	302-4187	1	RIGHT UPRIGHT SUPPORT	SEE FOOTNOTE 1
15	302-4188	1	LEFT UPRIGHT SUPPORT	SEE FOOTNOTE 1
16	302-4189	1	CENTER BRACE	SEE FOOTNOTE 1
17	302-4201	2	BAR, PLASTIC PAD	

NOT SHOWN:

FOOTNOTES:

1. INSTALL PRIOR TO 302-3655
2. TORQUE TO 350 FT-LBS

NOTE:

CENTER WEIGHT ASSEMBLY WITH HARDWARE 350-4677
 SIDE WEIGHT ASSEMBLY WITH HARDWARE 350-1431

FUEL TANK

RT105M/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	302-1319	1	FUEL TANK	
2	106-708	5	SCREW (M12-1.75 X 60MM, 10.9)	
3	106-397	9	WASHER (M12, HARDENED)	
4	106-477	3	SCREW (M12-1.75 X 45MM, 10.9)	
5	195-2160	1	FITTING, RETURN TUBE (06H)	
6	105-2018	1	FUEL SENDER GASKET	
7	300-0208	1	WELDMENT, SENDER MOUNT	
8	107-786	15	SCREW(#10-32 X 1-1/2") HEX	
9	215-1368	1	FUEL SENDER (3 WIRE)	
10	150-1847	1	S/O COUPLER (06N-08H90)	
11	105-1742	1	CONNECTOR, 06N-08 COMP	
12	150-2266	1	TUBE, NYLON FUEL PICKUP	
13	362-2638	1	FUEL CAP (RATCHET 2.25", NO VENT)	
14	106-574	4	CLIP NUT (M6-1.00)	
15	106-848	4	FLG SCREW (M6-1.00 X 25MM)	
16	107-687	4	CLIP NUT M8-1.25, LONG, WIDE	
17	362-2617	1	BARRIER	
18	106-255	4	WASHER (.406")	
19	107-334	4	SCREW (M8-1.25 X 25MM,BUT SOCI)	
20	362-2616	1	TANK TRANSITION SEAL	
21	106-724	3	FLG SCREW (M10-1.50 X 25MM)	
22	302-2376	1	WELDMENT, STEP	
23	106-387	3	FLG LOCKNUT (M10-1.50)	
24	105-1795	4	FLG LK SCREW (M8-1.25 X 20mm) SERRATED	
25	302-2377	1	SHEET, DEF TANK OUT COVER	
26	300-0429	1	PLATE, DEF TANK KEEPER	
27	106-551	7	CLIP NUT (M8-1.25)	
28	105-2277	1	CINCH STRAP (1.8"-1.9")	RETAINS DEF/ COOLER LINES
29	105-2272	2	CINCH STRAP (1.2"-1.3")	RETAINS DEF/ COOLER LINES
30	105-1300	12	BULK EDGING (1/8", ADHESIVE, SOLD PER FT)	
31	106-547	1	SCREW (M12-1.75 X 40MM,10.9)	
32	152-150	1	PLUG, MAGNETIC (1-16S)	
33	110-1032	1	TANK BREATHER ASSEMBLY	SEE FOOTNOTE 1
34	106-385	1	FLG LOCKNUT (M6-1.00)	
35	105-1056	1	SCREW (M6-1.00 X 40MM)	

NOT SHOWN:

FOOTNOTES:

1. BREATHER: 110-1033, CLAMP: 150-2939, TUBING: 150-5837, SWIVEL ELBOW: 150-5567

NOTE:

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

CANOPY/HEADLINER

RT105/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	500-2821	1	headliner	
2	500-2836	1	SWITCH PLATE	
3	362-2069	1	ROOF CAP	
4	500-2925	4	SEAL WASHER	
5	106-333	4	SCREW (M2-1.75 X 40MM, 8.8)	
6	105-2044	6	SCREW (M6 X 25mm) BUTTON HEAD 8.8	
7	105-2155	4	SCREW (M6 X 14MM) BUTTON HEAD 8.8	

NOT SHOWN:

FOOTNOTES:

NOTE:

CAB HEAT/ AIR COMPONENTS

REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	500-3005	1	THERMOSTAT	
2	500-3006	1	HEATER CORE	
3	500-3007	1	EVAPORATOR COIL	
4	500-3008	1	PRESSURIZER FAN	
5	500-3009	1	FILTER	
6	500-3010	2	FAN BLOWER	
7	500-3011	1	HEATER CONTROL VALVE	
8	500-3036	1	EXPANSION VALVE	

NOT SHOWN:

FOOTNOTES:

NOTE:

HEATER PLUMBING

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1673	2	WORM CLAMP (5/16" TO 7/8")	
2	105-1750	1	CLAMP, BOLT-ON ("P") 1 1/4", LRG HOLE	
3	110-026	4	WORM CLAMP (1/2" TO 1-1/4")	
4	110-217	6	WORM CLAMP (7/16" TO 1")	
5	110-333	2	BOLT-ON CLAMP (1")	
6	116-750	18	BULK HOSE (5/8", SOLD PER 1')	
7	116-750	118	BULK HOSE (5/8", SOLD PER 1')	A=116", B=2"
8	116-750	133	BULK HOSE (5/8", SOLD PER 1')	RT105-USE 140", A=106", B=34"; RT125/RT125Q-USE 133" A=99", B=34"
9	117-1068	1	ABRASION SLEEVE, SIDEWINDER 2"X 16"	
10	117-412	1	ABRASION SLEEVE (1.00" X 34")	
11	117-413	1	ABRASION SLEEVE (1.00" X 84")	
12	117-622	1	ABRASION SLEEVE (1.25" X 20")	
13	117-641	1	ABRASION SLEEVE (1.00" X 110")	
14	149-487	1	S/O COUPLER (08N-10H)	
15	150-4509	1	S/O COUPLER (10H-06H-10H)	
16	150-5273	2	S/O SHUT-OFF (10H-10H)	
17	153-840	1	ADAPTOR (M220 X -08NF, SPECIAL)	
18	500-1248	7	HOSE, DEUTZ 3/8" COOLANT	SEE FOOTNOTE 1 & 2
19	514-140	1	S/O COUPLER (08N-10H)	

NOT SHOWN:

FOOTNOTES:

1. USE 6.5"
2. ORDERING QUANTITY OF 1 EQUALS 158" OF 500-1248

NOTE:

RT105M (W/A/C) COOLER PLUMBING/HOSE RETENTION

RT105M

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1234	2	T-BOLT CLAMP (2.00" TO 2.31")	
2	105-2397	1	HANGING HOOK/LOOP STRAP (2.3"-2.5" ID)	
3	105-2399	1	ABRASION SLEEVE (2.4" X 12" SPLIT H&L)	INSTALL OVER BRAKE COVER
4	106-383	1	FLG LK SCREW (M10-1.50 X 30MM)	
5	106-387	1	FLG LOCKNUT (M10-1.50)	
6	154-300	1	CONNECTOR (I100-12S90)	
7	154-308	1	CONNECTOR (I100-12S)	
8	154-699	1	HOSE (I100FX-36"-2750)	
9	195-2529	1	COOLER, FUEL/TOC/HOC	
10	195-2570	1	HOSE, TOP RADIATOR	
11	195-2571	1	TUBE, RADIATOR	

NOT SHOWN:

FOOTNOTES:

NOTE:

CENTER CONSOLE ASSEMBLY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-2043	1	STEERING CONSOLE	
2	105-2044	8	SCREW (M6 X 25mm) BUTTON HEAD 8.8	
3	106-574	9	CLIP NUT (M6-1.00)	
4	362-2044	1	STEERING COLUMN COLLAR	
5	105-2155	2	SCREW (M6 X 14MM) BUTTON HEAD 8.8	USE LOCTITE 242, TORQUE TO 40 IN/LBS
6	362-2045	1	FRONT RIGHT CONSOLE	
7	105-1577	1	SCREW (M6-1.00 X 14MM,BUT SOC)	
8	362-2046	1	FRONT LEFT CONSOLE	
9	362-2047	1	LEFT CONSOLE DOOR	
10	105-1995	1	LATCH, W/KEY	SEE FOOTNOTE 1
11	105-2153	4	SCREW (M4 X .7 X 10, FLT HD, SOC, SSI)	SEE FOOTNOTE 1
13	106-237	2	LOCKNUT (M6-1.00,PRV TRQ,NLKI)	
14	107-801	2	WASHER (M6)	
16	105-1218	2	POP RIVET (5/32 X .525, BLACK)	
17	214-301	1	ACCESSORY SOCKET	
18	105-2222	2	HINGE	
19	362-1227	1	MANUAL COMPARTMENT	

NOT SHOWN:

FOOTNOTES:

USE LOCTITE 242 OR EQUIVALENT

NOTE:

SPEED RANGE/DIG DRIVE SELECT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	110-854	1	SWITCH ACTUATOR GUARD	
2	217-762	1	ROCKER SWITCH (SEALED)(ON-OFF)	

NOT SHOWN:

FOOTNOTES:

NOTE:

TRENCH CLEANER SWITCH CONTROLS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	217-764	1	ROCKER SWITCH (SPDT)	
2	110-854	1	SWITCH ACTUATOR GUARD	

NOT SHOWN:

FOOTNOTES:

NOTE:

CHARGE HYDRAULICS

RT105M/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4820	1	HYD ELECTRIC PILOT MAN (4 CAVITY;2 CART)	SEE FOOTNOTE 1
2	154-384	3	PLUG (06S)	
3	105-091	2	LOCK WASHER (5/16")	
4	105-178	2	BOLT (5/16-NC X 2-1/2", GD8)	
5	154-342	1	CONNECTOR (06S-06090)	
6	154-226	1	CONNECTOR (040-06S90)	
7	154-731	1	HOSE (060FX-17"-3000)	
8	154-383	1	PLUG (04S)	

NOT SHOWN:

FOOTNOTES:

- I. FOR SERVICE PARTS, SEE PILOT VALVE SERVICE PARTS

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.

COOLER PUMP SUPPLY HYDRAULICS RT105M

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-825	3	FLG LK BOLT (3/8-NC X 3/4)	
2	106-266	2	FLG NUT (M10-1.50)	
3	110-026	2	WORM CLAMP (1/2" TO 1-1/4")	
4	111-027	2	T-BOLT CLAMP (1.25" - 1.50")	
5	115-687	33	ABRASION SLEEVE, BLUE, 1.50" (SOLD PER FT)	
6	115-963	1	ABRASION SLEEVE (1.59" X 75")	
7	116-460	33	BULK HOSE (1", SOLD PER FT)	USE 33" OF ABRASION SLEEVE 115-687
8	116-636	19	BULK HOSE (3/4", SOLD PER FT)	USE 16" OF ABRASION SLEEVE 115-687
9	117-1054	1	ABRASION SLEEVE (1.5" X 18" SPLIT H&L, HIGH HEAT)	INSTALL WITH GREY ON OUTSIDE OF SLEEVE
10	150-4550	1	HOSE (120FX-72"-150)	
11	150-4846	1	CONNECTOR (120-20S)	
12	153-110	1	S/O COUPLER (20S-16H45)	
13	153-792	1	FILTER ELEMENT (10 MICRON)	SEE FOOTNOTE 1
14	157-345	1	HYD OIL FILTER (20SF-20SF)	INCLUDES REPLACEMENT ELEMENT 153-792
15	159-637	1	S/O RUN TEE (16S-16H-12H)	
16	322-940	1	BRACKET	
17	514-353	1	REDUCER (20S-16SF)	

NOT SHOWN:

FOOTNOTES:

1. USE 153-792 FOR NORMAL MAINTAINENCE. USE 153-791 IN PLACE OF 153-792 AFTER COMPONENT REPLACEMENT OR REPAIR.

NOTE:

PRESSURE REDUCING VALVE

RT105M

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-9539	1	SHEET VALVE MOUNT	
2	154-261	1	CONNECTOR (040-08S)	
3	154-225	1	CONNECTOR (060-08S45)	
4	105-1808	2	FLG LK SCREW (M12-1.75 X 30mm)SERRATED	
5	106-386	2	FLG LOCKNUT (M8-1.25)	
6	106-330	2	SCREW (M8-1.25 X 70MM)	
7	106-395	2	WASHER (M8)	
8	154-226	1	CONNECTOR (040-06S90)	
9	106-709	2	FLG LK NUT (M12-1.75)	
10	154-342	2	CONNECTOR (06S-06090)	
12	159-157	1	QDC ADAPTER (02-060F)	
13	117-410	1	ABRASION SLEEVE (1.00" X 38")	
14	154-262	1	REDUCER (060-080F)	
15	154-701	1	HOSE (040FX-14"-3000)	
16	515-538	1	HOSE (060FX90S-15"-3000)	
17	116-929	1	HOSE (060FX45-36"-3000-AR)	
18	150-4523	1	HYD PRESS RED CART VALVE IN BLOCK (SUN)	
19	153-264	1	REDUCER (04N-06SF)	

NOT SHOWN:

FOOTNOTES:

NOTE:

FRAME TILT/REAR STEER VALVE SERVICE

RT105/RT125/RT125Q

REF PART
NO. NUMBER QTY DESCRIPTION REMARKS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	150-4579		HYD VALVE ELECT 2 FUNCT W/ PO CHECKS	
1	500-2828	2	HYD VALVE COIL NUT W/ NYLOCK (HF7006190)	5-6 FT-LB
2	500-1330	4	SOLENOID COIL, 12VDC W/ ZENER DIODE	
3	500-2571	2	HYD ELECT CART VALVE (HF SV10-47D 3P4W)	24-26 FT-LB
4	500-2968	2	CART VALVE ECOIL SPACER SZ10(HF 4539700)	
5	500-2611	2	HYD DUAL PO CHECK (HF DC08-40-0-N-135)	20 FT-LB
6	150-4650	2	PLUG, ORIFICE HEX SOC(3/8-16 UNC X .050)	15-18 FT-LB (INSIDE BLOCK), SEE FOOTNOTE 1
7	154-383	2	PLUG (O4S)	13-15 FT-LB

NOT SHOWN:

FOOTNOTES:

- 1. ORIFICES MUST BE REMOVED PRIOR TO INSTALLING THIS VALVE IN BH120 ATTACHMENT.
ORIFICES MUST BE IN THIS VALVE FOR INSTALLATION AS FRAME/ TILT REAR STEER VLAVE.

NOTE:

TELEMATICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-137	4	BOLT (#10-24 X 2", SOC)	
2	106-048	4	LOCKNUT (#10-24)	
3	220-2529	1	5320 12 PIN TELE MODULE W/BATT (GLUED)	
4	215-2424	1	FMS HARNESS - PROMION TELEMATICS	

NOT SHOWN:

FOOTNOTES:

NOTE:

SEAT HARNESS

RT105/RT125/RT125Q

REF PART				
NO.	NUMBER	QTY	DESCRIPTION	REMARKS
1	215-2379	1	SEAT HARNESS	USE 2X 105-1568 (FIR TREE CABLE MOUNT)

NOT SHOWN:

FOOTNOTES:

NOTE:

FRAME HARNESS/BFB CONTROLLER

RT105M

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-003	3	FLG LOCKNUT (5/16-NC)	
2	105-1568	6	FIR TREE CABLE MOUNT	
3	105-2216	2	HEAVY DUTY MOUNT	
4	105-2218	1	STUD BOLT (M12-1.75 X 45MM, GRD 8.8, ZP)	SEE FOOTNOTE 1
5	106-013	4	WASHER (3/16")	
6	106-030	1	LOCK WASHER (M12)	
7	106-079	1	SCREW (M10-1.50 X 30MM)	
8	106-089	1	HEX NUT (M12-1.75, 10.9) ZP	
9	106-163	1	FLG SCREW (M8-1.25 X 30MM)	
10	106-386	1	FLG LOCKNUT (M8-1.25)	
11	106-387	1	FLG LOCKNUT (M10-1.50)	
12	106-397	1	WASHER (M12, HARDENED)	
13	106-556	4	SCREW (M4-0.70 X 20MM)	
14	106-632	4	FLG LK SCR (M12-1.75X35MM,SER)	
15	106-709	4	FLG LK NUT (M12-1.75)	
16	107-516	4	CLIP NUT (M4-.7)	
17	110-126	1	BOLT-ON CLAMP (1/2")	
18	117-1078	1	FOAM INSERT	
19	195-418	4	LOCK WASHER (#10)	
20	214-256	1	DIODE CONNECTOR	
21	215-2684	1	FRAME HARNESS 105M	
22	220-2075	1	48 PIN CONTROLLER	
23	302-3663	1	SHEET, HARNESS MOUNT	
24	302-4865	1	SHEET, HARNESS BRACKET	

NOT SHOWN:

FOOTNOTES:

1. USE LOCTITE 272 ON SHORT THREAD OF STUD INTO ENGINE; CLEAN GROUNDING SURFACE ON ENGINE TO BARE METAL

NOTE:

ACCESSORIES

AUXILIARY MANIFOLD

RT105M/RT125/RT125Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-4460	1	AUXILIARY MANIFOLD	
4	155-958	1	TRICK QDC BODY (I2-I4S)	
5	155-933	1	QDC ADAPTER (I2-I2S/J)	
6	106-387	2	FLG LOCKNUT (M10-I.50)	
10	155-936	1	DUST PLUG (1/2" - 3/4")	
11	155-935	1	DUST CAP (1/2" - 3/4")	
12	154-301	2	CONNECTOR (I0S-I00)	
13	107-982	2	HHCS M10-I.50 X 85MM,10.9 ZP	
14	155-709	1	O-RING (912 D90)	
17	106-848	2	FLG SCREW (M6-I.00 X 25MM)	
18	106-385	2	FLG LOCKNUT (M6-I.00)	
19	214-933	1	ROTO WITCH IV HARNESS	
20	105-830	4	FLG LK BOLT (1/2-NC X 1-1/4")	
21	105-833	4	FLG LOCKNUT (1/2-NC)	
22	155-747	1	O-RING (914 D90)	
24	150-4459	1	HARDLINE (-I0)	
25	302-1011	1	AUXILIARY MANIFOLD MOUNT BRACKET	
26	155-179	1	PLUG (I0S, SOC)	SEE FOOTNOTE 3
27	150-4457	1	HARDLINE (-I0)	SEE FOOTNOTE 2
28	215-2617	1	ROTOWITCH IV POWER ADAPTER	SEE FOOTNOTE 2
29	154-291	1	BK CONNECTOR (I00-I0090BK)	SEE FOOTNOTE 1
30	150-4458	1	HARDLINE (-I0)	SEE FOOTNOTE 1
31	157-281	1	-I0 ORS EXTENSION FITTING	SEE FOOTNOTE 1

NOT SHOWN:

FOOTNOTES:

1. ON UNITS WITH BACKHOE USE KIT#190-2646 (REF.# 29,30 AND 31)
2. ON UNITS WITHOUT BACKHOE (COUNTERWEIGHT OR REEL CARRIER), USE KIT#190-2645 (REF# 27 AND 28)
3. WHEN USING BACKHOE (KIT#190-2646), INSERT PLUG IN OPPOSITE SIDE OF MANIFOLD.

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.
DISCONNECT HOSE 150-4409 FOR INSTALLATION OF AUXILIARY MANIFOLD. SEE POWER BEYOND HYDRAULICS.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL