

PARTS MANUAL

CHALLENGER

H13.00-16.00XM-6

H10.00-12.00XM-12EC

(E019)

CUSTOMER EDITION

HYSTER

SECTIONS

1	FRAME
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3	FUEL SYSTEM
4	ELECTRICAL SYSTEM
5	TRANSMISSION
6	DRIVE AXLE
7	STEERING SYSTEM
8	BRAKE SYSTEM
9	HYDRAULIC SYSTEM
10	MAST-TWO STAGE LIMITED FREE-LIFT
11	OPTIONS
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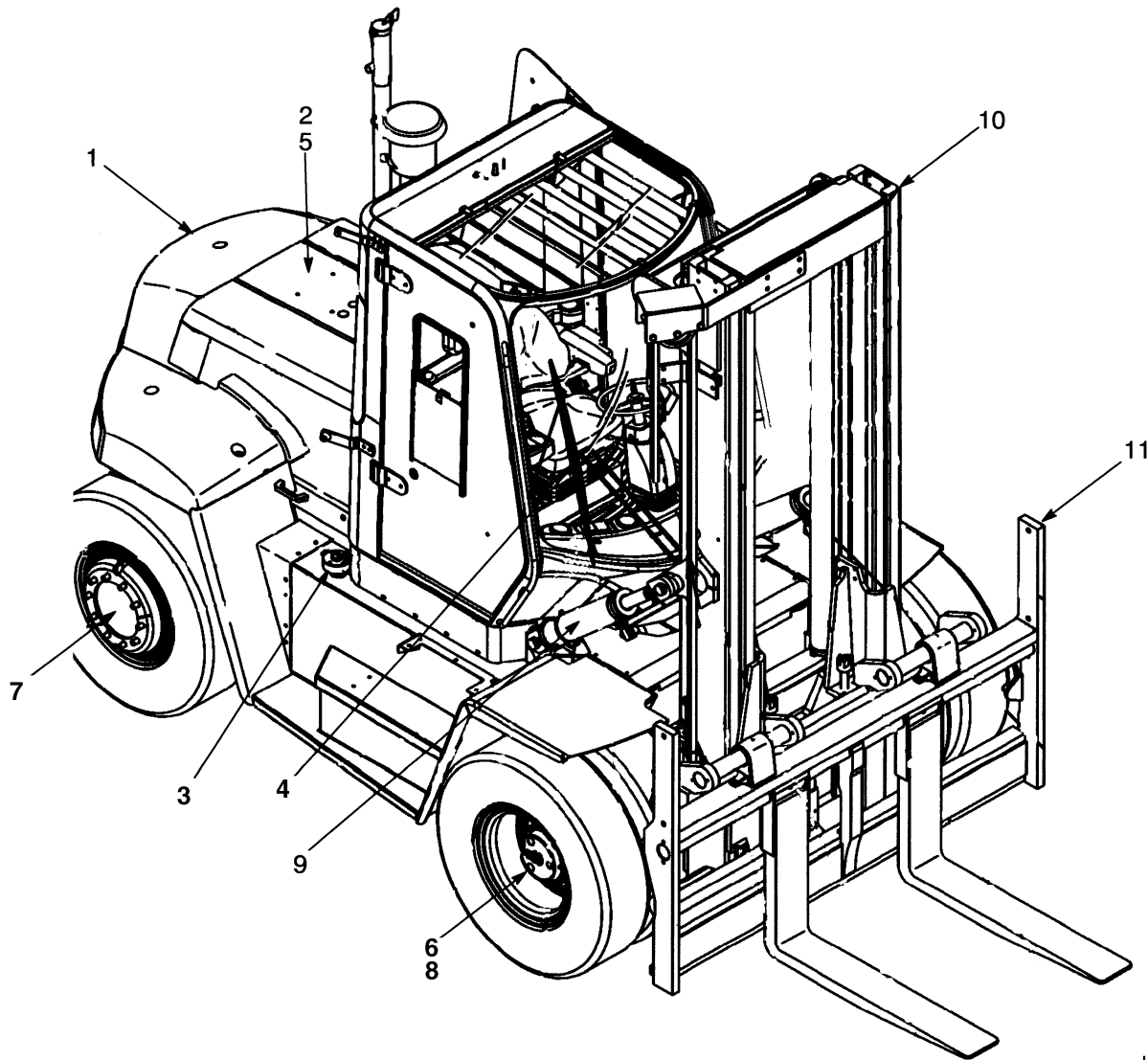
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SECTION 1
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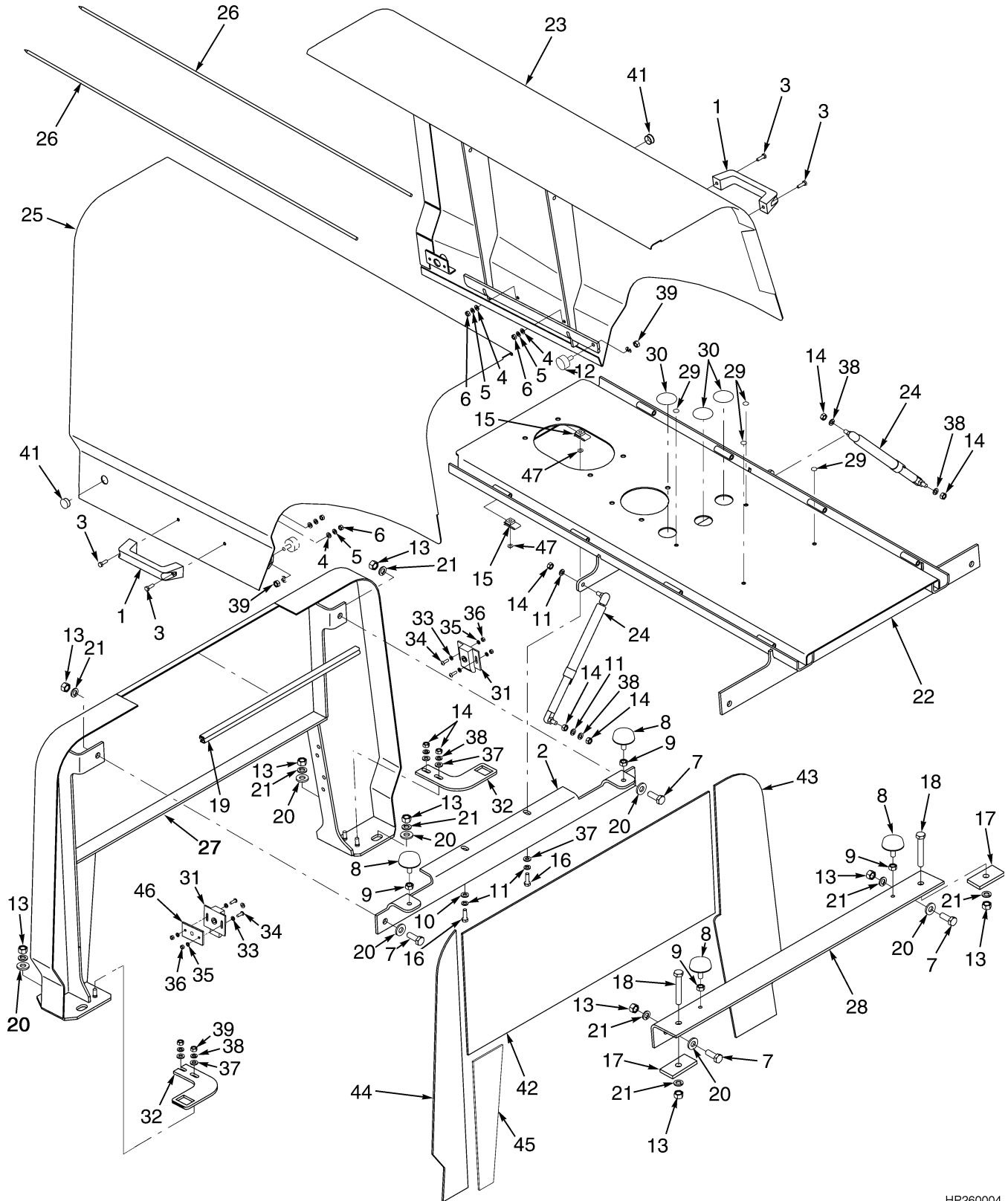
GENERAL TRUCK (Figure 1-1)



HP990022

ITEM	PART NO.	DESCRIPTION	QTY
1	Frame (☞ Figure 1-4)	1
2	Engine (☞ Figure 2-1)	1
3	Fuel System (☞ Figure 3-1)	1
4	Electrical System (☞ Figure 4-1)	1
5	Transmission (☞ Figure 5-4)	1
6	Drive Axle (☞ Figure 6-1)	1
7	Steering System (☞ Figure 7-1)	1
8	Brake System (☞ Figure 8-1)	1
9	Hydraulic System (☞ Figure 9-1)	1
10	Mast-Two Stage Limited Free-Lift (☞ Figure 10-1)	1
11	Optional (☞ Figure 11-1)	1
12	Numerical Index.....	1

HOOD (Figure 1-2)



HP260004

HOOD

ITEM	PART NO.	DESCRIPTION	QTY
1	362030	Handle	2
2	1477508	Bracket.....	1
3	292501	Capscrew.....	4
4	320156	Washer	4
5	292680	Lockwasher.....	4
6	136687	Nut	4
7	292528	Capscrew.....	4
8	1479870	Screw (Stop).....	4
9	136692	Nut	4
10	320157	Washer	2
11	292681	Lockwasher.....	4
12	1489092	Screw (Stop).....	2
13	216877	Nut	10
14	239503	Nut	4
15	376397	Nut	2
16	18498	Capscrew.....	2
17	1479871	Washer	2
18	292535	Capscrew.....	AR
19	300088	Seal (Door) (Door)	8
20	320162	Washer	8
21	292683	Lockwasher.....	10
22	1554208	Channel	1
23	1476910	Hood (RH)	1
24	1385584	Gas Spring.....	2
25	1476911	Hood (LH).....	1
26	1478959	Rod	2
27	1489401	Support.....	1
28	1477512	Bracket.....	1
29	1494868	Plug (Without Air Conditioner)	4
30	1494869	Plug (Without Air Conditioner)	3
31	1382332	Latch	2
32	1494480	Bracket.....	2
33	320155	Washer	4
34	296155	Capscrew.....	4
35	292679	Lockwasher.....	4
36	292668	Nut	4
37	320160	Washer	4
38	292682	Lockwasher.....	4
39	136692	Nut	4
40	a 1382766	Wrench	1
41	309666	Plug (Non-EEC).....	2
42	b 1489402	Liner.....	1
43	b 1488424	Liner (RH).....	1
44	b 1488715	Liner (LH).....	1
45	b 1488716	Liner.....	1
46	1494642	Shim	AR
46	1494643	Shim	AR

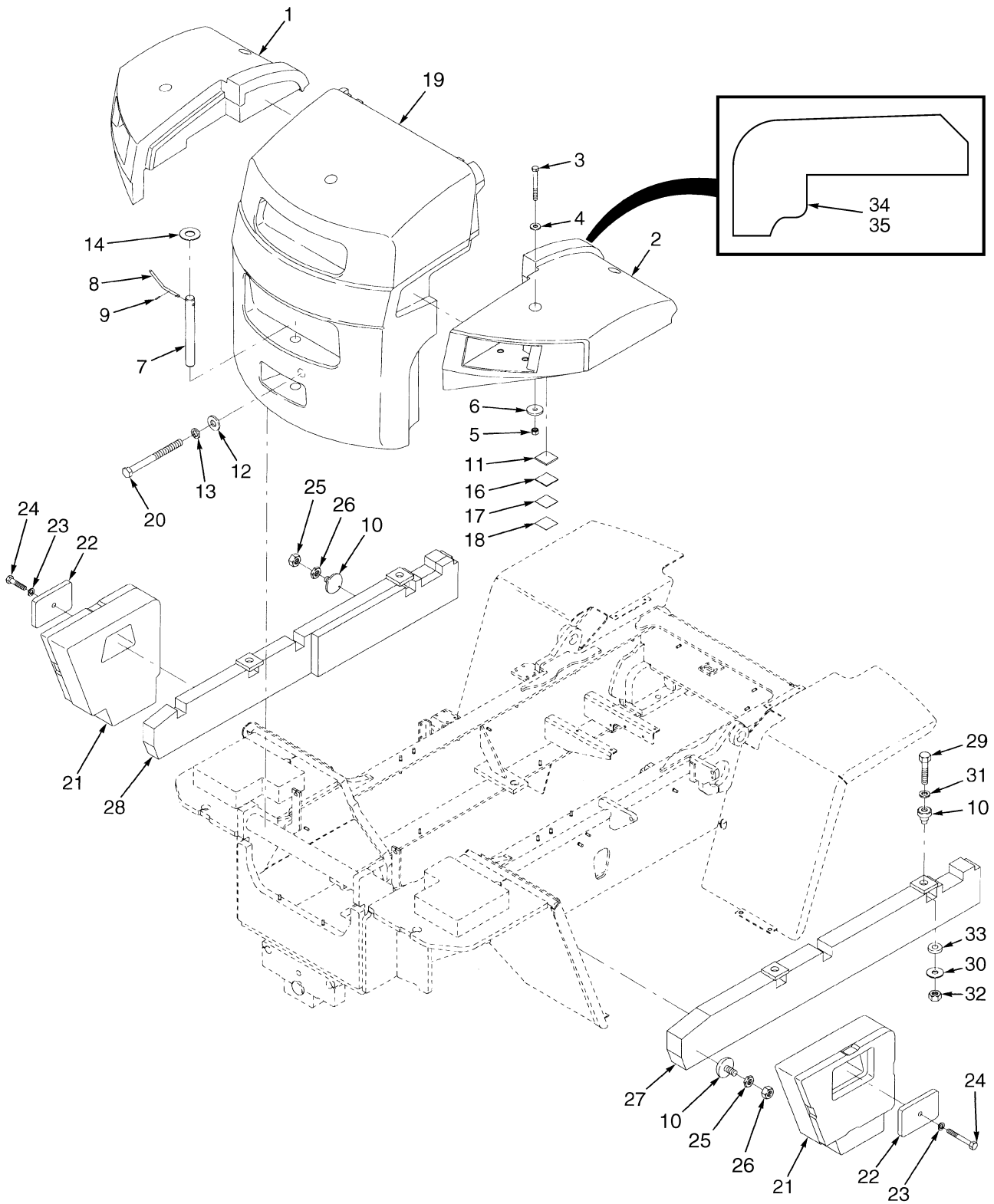
HOOD

ITEM	PART NO.	DESCRIPTION	QTY
46	1494645	Shim	AR
47	320158	Washer	AR

FOOTNOTES:

- a Not Illustrated
- b ⇒ S/N E019E-01957A

COUNTERWEIGHT (Figure 1-3)

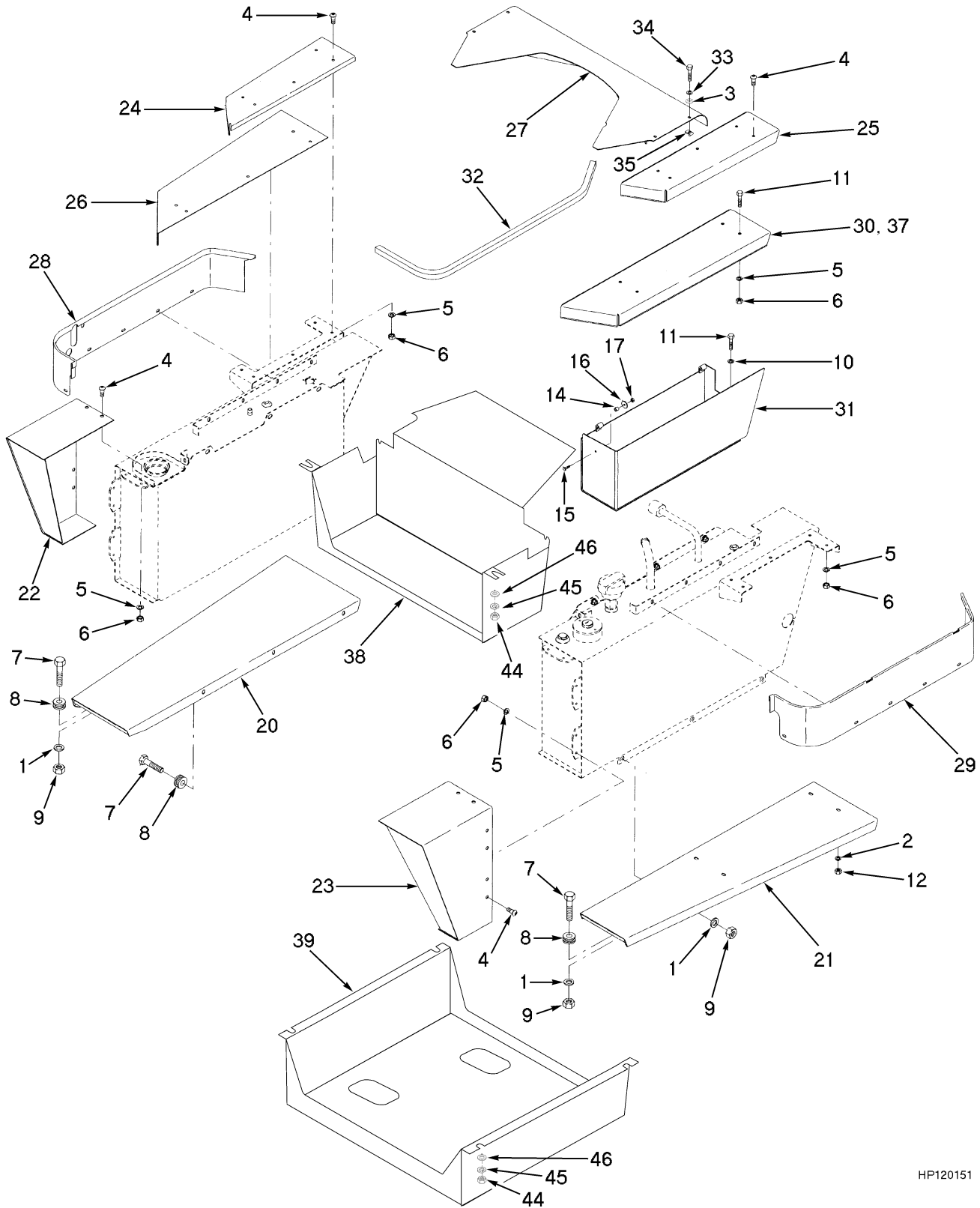


HP120578

COUNTERWEIGHT**KEY:****A: H13.00XM-14.00XM/H10.00-EC****B: H16.00XM/12.00-EC****C: H12.00-EC**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	2038857	Fender (LH)	1	1	1
2	2038858	Fender (RH).....	1	1	1
3	292597	Capscrew.....	4	4	4
4	1475872	Washer	4	4	4
5	316829	Nut	4	4	4
6	1301086	Washer	4	4	4
7	1467696	Tow Pin	1	1	1
8	1495368	Grip.....	1	1	1
9	302440	Pin	1	1	1
10	816231	Stop .....	..	..	4
11	1475214	Shim	AR	AR	AR
12	221786	Washer	1	1	1
13	15170	Lockwasher.....	1	1	1
14	15189	Washer	1	1	1
15	280472	Sealant	AR	AR	AR
16	1475211	Shim	AR	AR	AR
17	1475212	Shim	AR	AR	AR
18	1475213	Shim	AR	AR	AR
19	1467625	Counterweight	1	..	..
19	1467626	Counterweight .....	..	1	1
20	1453469	Capscrew.....	1	..	..
20	1453470	Capscrew.....	..	1	1
21	2045338	Counterweight (RH).....	1	1	1
21	2045336	Counterweight (LH).....	1	1	1
22	1485676	Plate	2	2	2
23	292689	Lockwasher.....	2	2	2
24	292612	Capscrew (127 mm)	2	2	2
25	216877	Nut .....	..	..	4
26	296130	Nut .....	..	..	4
27	816136	Counterweight (RH).....	..	..	1
28	816137	Counterweight (LH).....	..	..	1
29	293696	Capscrew.....	..	..	4
30	816138	Washer .....	..	..	4
31	1331575	Washer .....	..	..	4
32	316828	Nut .....	..	..	4
33	1373270	Isolator.....	..	..	4
34	1532632	Liner (LH).....	1	1	1
35	1532633	Liner (RH).....	1	1	1

FLOOR PLATES AND COVERS (Figure 1-4) (⇒S/N E019E01957A)



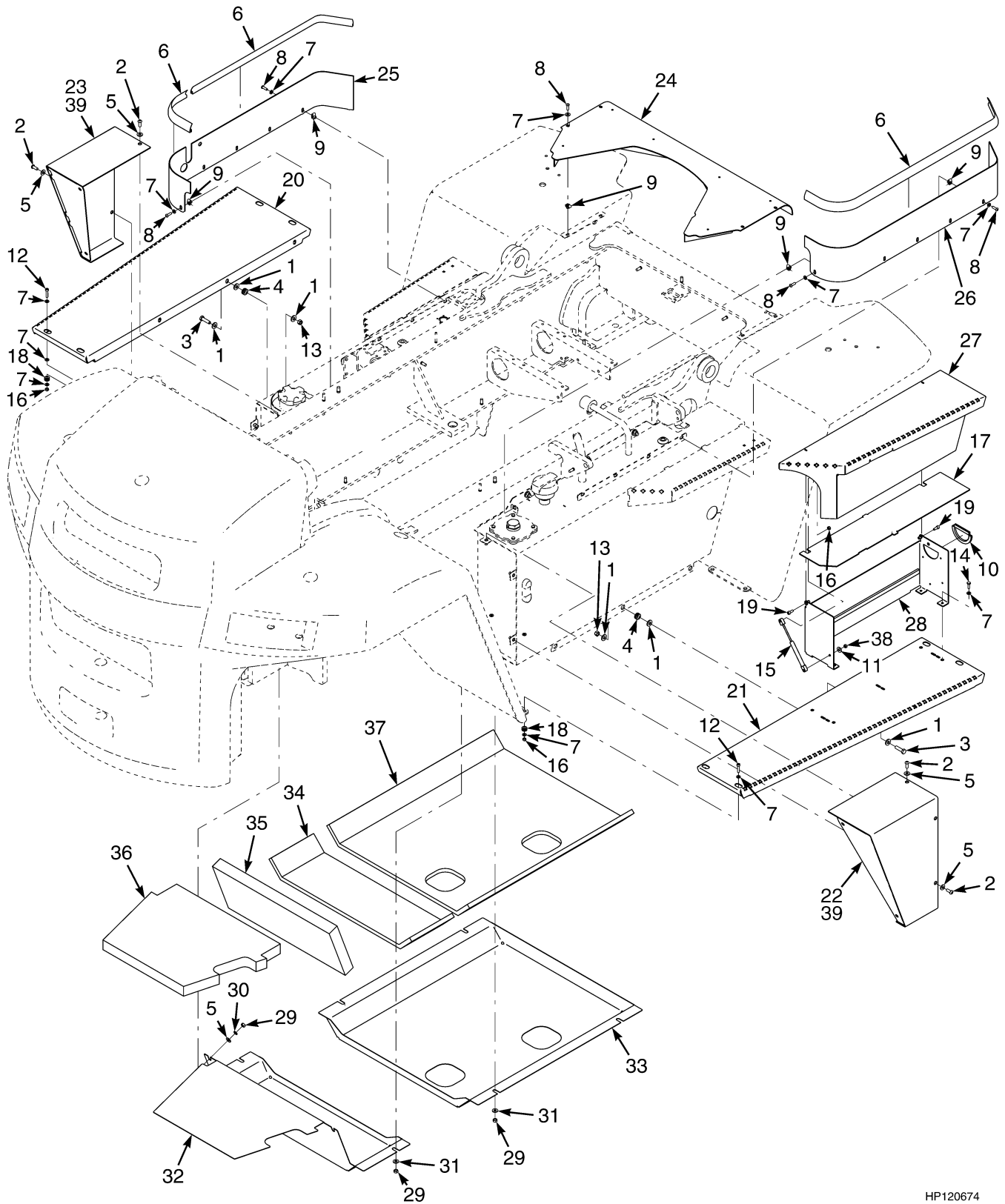
HP120151

FLOOR PLATES AND COVERS
(⇒S/N E019E01957A)

ITEM	PART NO.	DESCRIPTION	QTY
1	320162	Washer	46
2	292683	Lockwasher.....	3
3	292681	Lockwasher.....	3
4	296173	Capscrew.....	15
5	292682	Lockwasher.....	30
6	292655	Nut	30
7	246001	Capscrew.....	20
8	216735	Grommet.....	20
9	300937	Locknut	20
10	320160	Washer	8
11	287854	Capscrew.....	8
12	136692	Nut	8
13	16257	Screw.....	1
14	1335831	Bushing.....	1
15	287816	Capscrew.....	1
16	1335832	Washer	1
17	313805	Nut	1
18	288762	Tape (Foam)	AR
19	1319189	Spring (Latch).....	1
20	1472661	Running Board (LH).....	1
21	1472665	Running Board (RH).....	1
22	1483977	Extension.....	1
23	1484061	Extension.....	1
24	1475488	Step	1
25	1475489	Step	1
26	1477099	Step	1
27	1485265	Cover	1
28	1485263	Panel (LH).....	1
29	1485264	Panel (RH).....	1
30	1471294	Cover (Battery Box).....	1
31	1471296	Battery Box	1
32	1491360	Seal	AR
33	320158	Washer	14
34	296167	Capscrew.....	14
35	1480237	Clip Nut.....	14
36	a 375295	Trim	AR
37	1494649	Step	1
38	1515432	Cover (Rear)	1
39	1515434	Cover (Bottom)	1
40	1516039	Liner.....	1
41	1516040	Liner.....	1
42	1516041	Liner.....	1
43	1516042	Liner.....	1
44	136692	Nut	8
45	292682	Lockwasher.....	8
46	320160	Washer	8

FOOTNOTES:**a** Not Illustrated

FLOOR PLATES AND COVERS (Figure 1-5) (S/N E019E01958A⇒)



HP120674

FLOOR PLATES AND COVERS

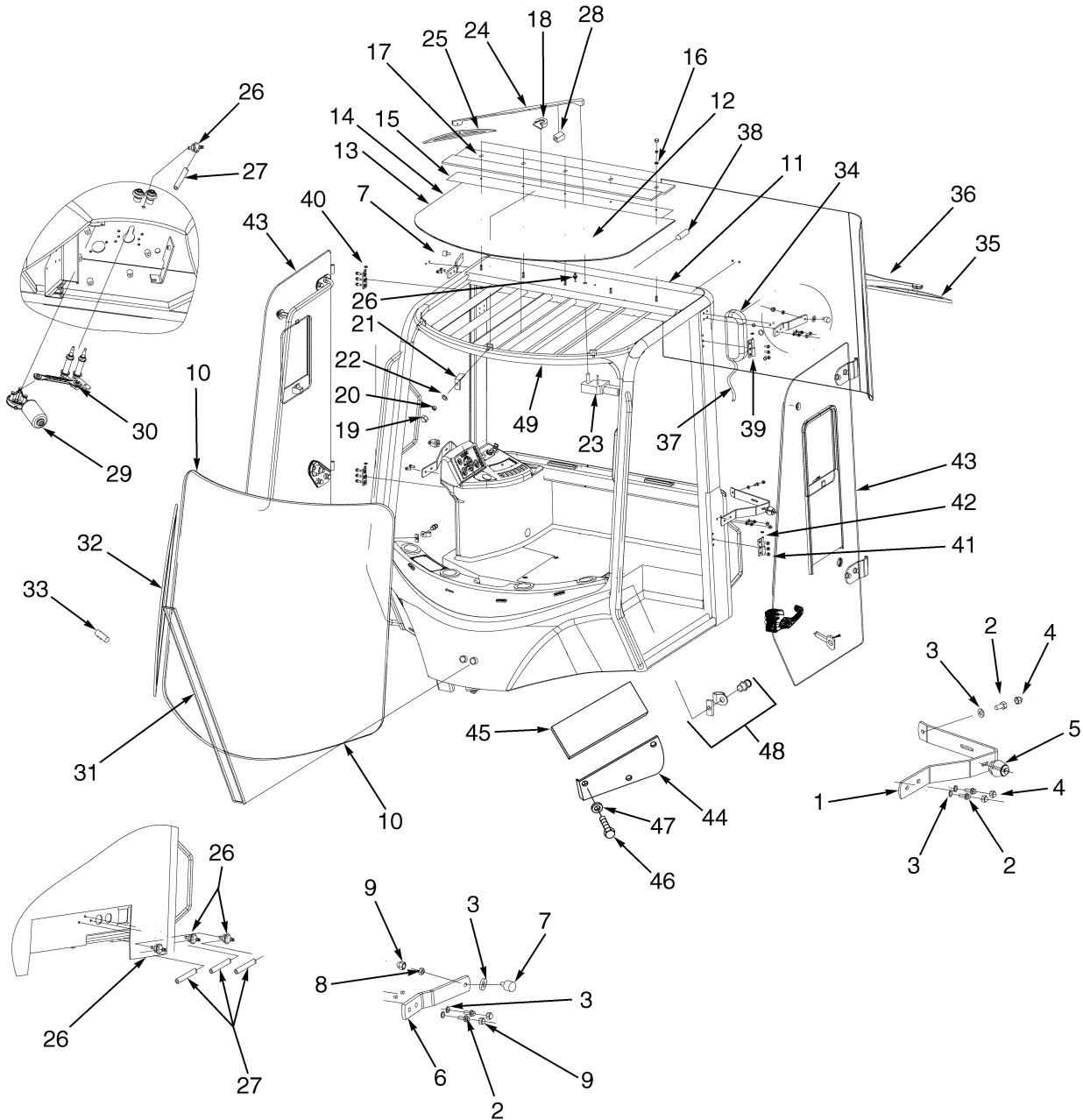
(S/N E019E01958A⇒)

ITEM	PART NO.	DESCRIPTION	QTY
1	320162	Washer	18
2	296173	Capscrew.....	6
3	287837	Capscrew.....	6
4	216735	Grommet.....	6
5	320160	Washer	6
6	1491360	Seal	AR
7	320158	Washer	42
8	296167	Capscrew.....	14
9	1480237	Clip Nut.....	14
10	325983	Trim	AR
11	292681	Lockwasher.....	2
12	296012	Capscrew.....	8
13	302402	Nut	6
14	136749	Capscrew.....	4
15	1532341	Gas Spring.....	1
16	302400	Locknut	10
17	2071326	Cover	1
18	91946	Grommet.....	8
19	1529665	Capscrew.....	2
20	1529664	Running Board (LH).....	1
21	1529663	Running Board (RH)	1
22	1532449	Extension (LH)	1
23	1532447	Extension (RH)	1
24	1485265	Cover	1
25	1485263	Panel (LH).....	1
26	1485264	Panel (RH)	1
27	1529751	Cover (Battery Box)	1
28	1532202	Battery Box	1
29	a 136692	Nut	8
30	a 292682	Lockwasher.....	8
31	a 320160	Washer	8
32	a 1515432	Cover (Rear)	1
33	a 1562201	Cover (Bottom)	1
34	a 1562209	Liner.....	1
35	a 1562210	Liner.....	1
36	a 1562212	Liner.....	1
37	a 1562205	Liner.....	1
38	329069	Nut	2
39	288762	Tape.....	AR

FOOTNOTES:

a H13.00XM-6, H14.00XM-6, H16.00XM-6

CAB AND ATTACHING PARTS (Figure 1-6)



HP120624

CAB AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	1493310	Bar (Hold-Open)	2
2	1492239	Bolt	8
3	320158	Washer	10
4	1476584	Cap	6
5	1493313	Bumper	2
6	1493315	Bar (Hold-Open) (Bumper)	2
7	1493316	Bumper	2
8	316835	Nut	2
9	1476584	Cap	6
10	.....	Window Assembly (Curved Front)	1
10	1493320	Window (Tempered)	1
10	1498750	Seal Kit	1
10	2046118	Windshield (Service Option)	1
10	1498750	Seal Kit	1
10	2046119	Flat Glass Kit (Service Option)	1
10	1498750	Seal Kit	1
10	1493278	Mirror (Interior)	1
11	.....	Window Assembly (Rear)	1
11	1493324	Window (Rear) (Curved)	1
11	1498750	Seal Kit	1
12	1558024	Window (Skylight) (Laminated)	1
13	1515337	Seal	AR
13	1393463	Seal (Optional)	AR
14	1498339	Sealant	AR
15	1498341	Seal	1
16	1498342	Washer	5
17	1493328	Clip	1
18	1493329	Cover	3
19	1493397	Cover	8
20	316834	Nut	8
21	1498343	Clip	3
22	320156	Washer	3
23	1493344	Wiper Motor	1
24	1498347	Wiper Arm	1
25	1498348	Wiper Blade	1
26	1493336	Connector	6
27	1493337	Hose	9
28	1507003	Nozzle (Top)	1
29	1493332	Wiper Motor	1
30	1493333	Linkage	1
31	1493334	Wiper Arm	1
32	1493335	Wiper Blade	1
33	1507005	Nozzle (Front)	1
34	1493339	Wiper Motor	1
35	1493340	Wiper Blade	1
36	1493341	Wiper Arm	1
37	1493342	Wire Harness (Rear Wiper)	1
38	1498344	Washer (Nozzle)	1
39	1393473	Hinge (LH)	2
39	.....	Pin (Hinge)	2
40	1393474	Hinge (RH)	2

CAB AND ATTACHING PARTS

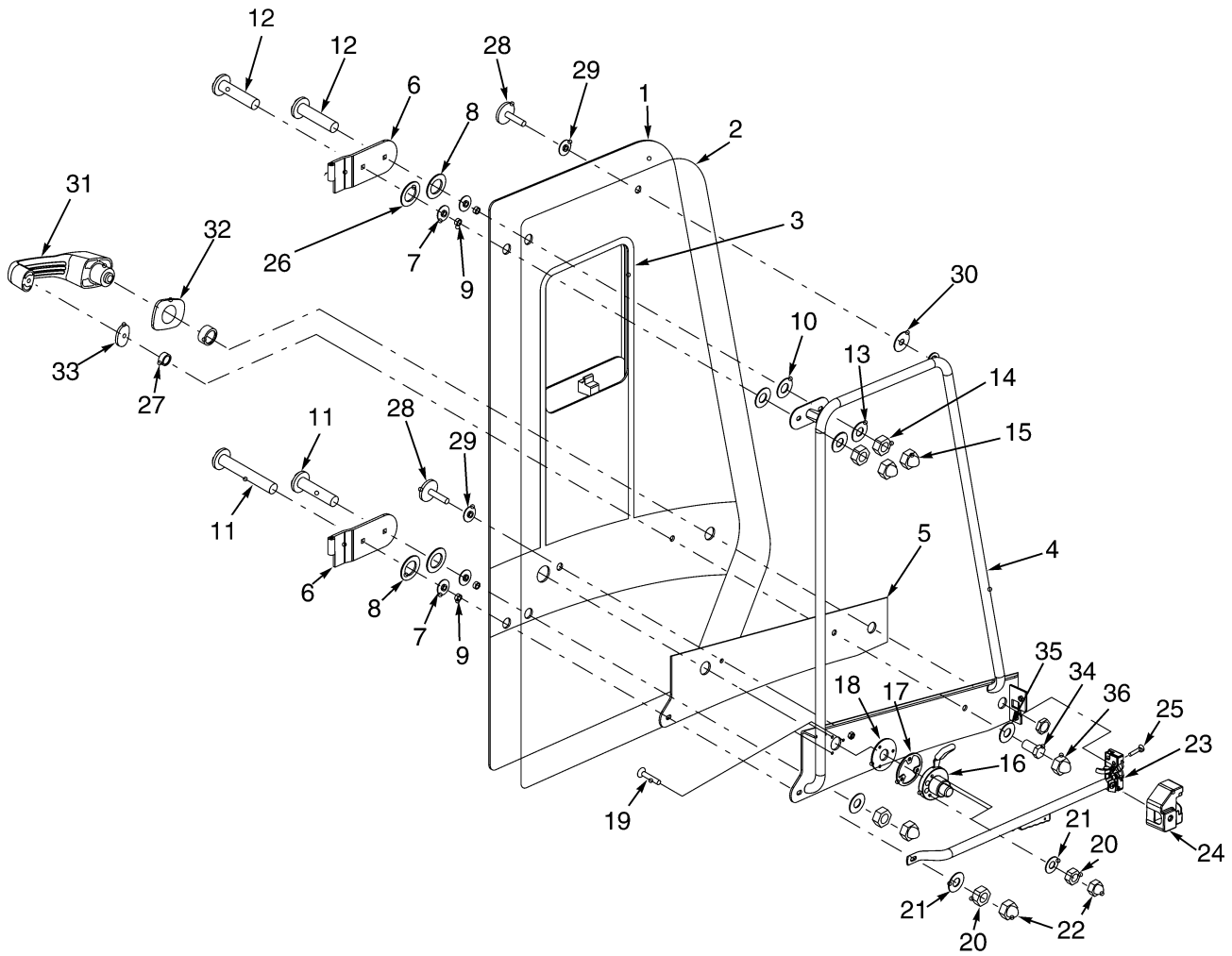
ITEM	PART NO.	DESCRIPTION	QTY
40	.....	Pin (Hinge)	2
41	1493308	Bolt	12
42	1468312	Washer	4
43	1493347	Door Assembly (Glass) (LH) (☞ Figure 1-7)	1
43	1493348	Door Assembly (Glass) (RH) (☞ Figure 1-7)	1
43	a 1480218	Door Assembly (LH) (Steel) (☞ Figure 1-8)	1
43	a 1480219	Door Assembly (RH) (Steel) (☞ Figure 1-8)	1
43	b 1553405	Door Assembly (LH) (Steel) (☞ Figure 1-10)	1
43	b 1553404	Door Assembly (RH) (Steel) (☞ Figure 1-9)	1
44	1493272	Air Filter Cover	1
44	1493274	Cover	1
45	1493276	Air Filter	1
46	293613	Capscrew	3
47	320156	Washer	3
48	1493318	Bolt Assembly (Striker)	2
48	1504953	Block	1
48	1504954	Guard (Striker Bolt)	1
48	1504955	Bolt (Striker)	1
49	1493307	Frame (Cab)	1
	1493309	Mounting (Hold-Open) (Includes Items 1-5, 48)	1
	1493314	Bumper (Hold-Open) (Includes Items 2-3, 6-9)	1
	1493325	Glass Assembly (Roof) (Includes Items 15-22)	1
	1493343	Wiper System (Roof) (Includes Items 23-28)	1
	1493331	Wiper System (Front) (Includes Items 26-27, 29-33)	1
	1493338	Wiper System (Rear) (Includes Items 26-27, 34-38)	1

FOOTNOTES:

a ⇒ S/N E019E02149B

b S/N E019E02150B ⇒

DOOR (Figure 1-7) GLASS



HP120612

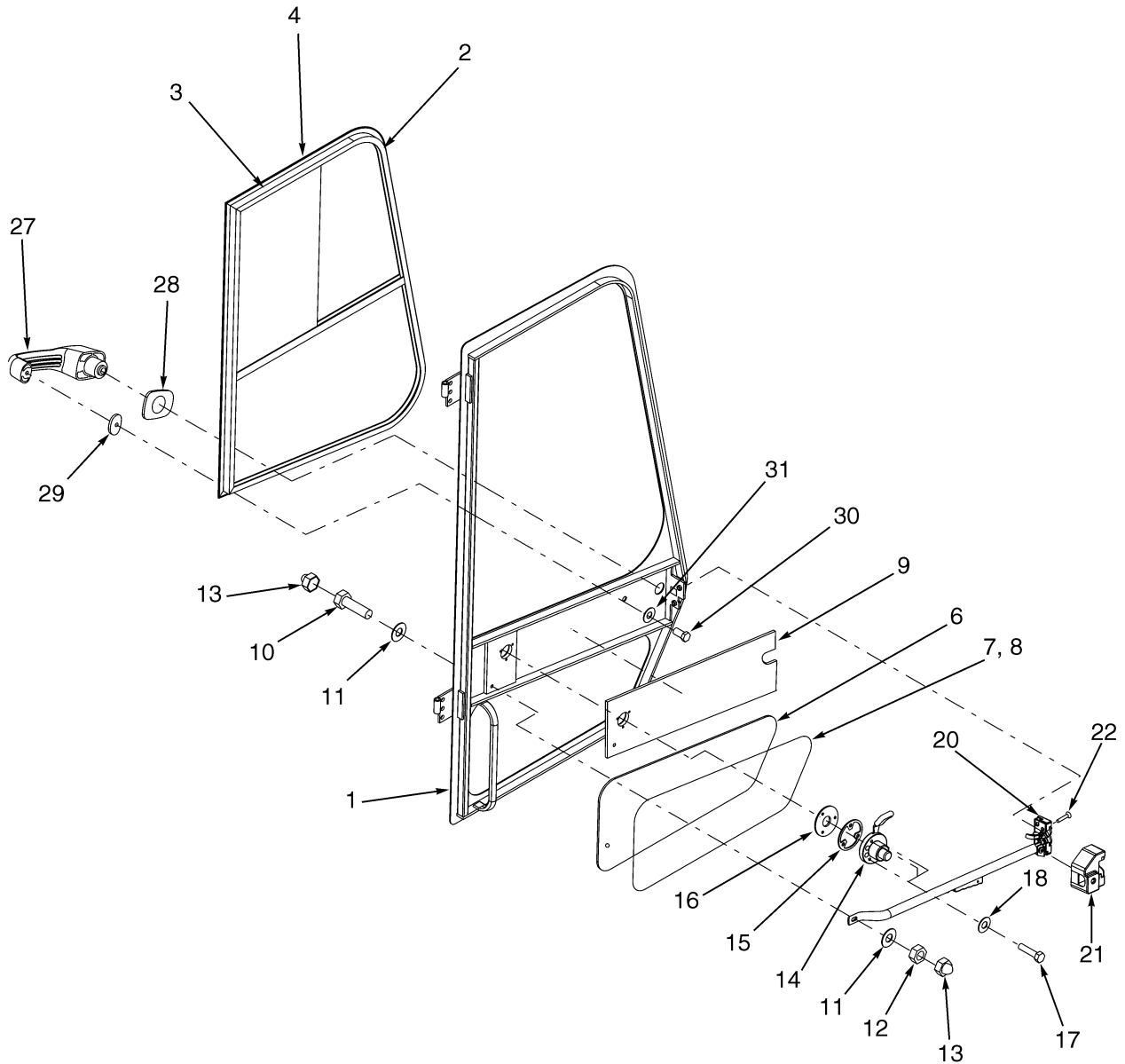
**DOOR
GLASS****KEY:****A: Right Hand****B: Left Hand**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1493348	Door Assembly (Glass).....	1	..
	1507006	Key.....	1	..
	1493347	Door Assembly (Glass).....	..	1
	1507006	Key.....	..	1
1	1510214	Door (Glass).....	1	..
1	1510213	Door (Glass).....	..	1
2	1495441	Seal.....	AR	AR
3	1495442	Sliding Window.....	4	4
3	1483226	Latch.....	1	1
3	1542547	Plate.....	1	1
3	1542548	Shim (Rubber).....	1	1
3	1542549	Screw.....	2	2
4	1495464	Frame.....	1	..
4	1495443	Frame.....	..	1
5	1495465	Gasket.....	1	..
5	1495444	Gasket.....	..	1
6	1497240	Door Hinge.....	1	..
6	1495446	Door Hinge.....	..	1
7	1495447	Washer.....	4	4
8	1495448	Washer.....	4	4
9	1495449	Bushing.....	4	4
10	1495450	Washer.....	2	2
11	1495451	Screw.....	1	1
12	1495452	Screw.....	3	3
13	320160	Washer.....	4	4
14	1493501	Nut.....	4	4
15	1493312	Cap.....	4	4
16	1497241	Hold-Open.....	1	..
16	1495453	Hold-Open.....	..	1
17	1495456	Washer.....	1	1
18	1495454	Seal.....	1	1
19	1495455	Screw.....	3	3
20	316834	Nut.....	3	3
21	320156	Washer.....	3	3
22	1493397	Cover.....	3	3
23	1495434	Latch And Handle.....	1	..
23	1495437	Latch And Handle.....	..	1
24	1495435	Cover.....	1	..
24	1495438	Cover.....	..	1
25	296229	Capscrew.....	2	2
26	1495459	Bushing.....	1	1
27	1495460	Bushing.....	1	1
28	1495462	Bolt.....	2	2
29	1495463	Washer.....	2	2
30	1468316	Washer.....	1	1
31	1495371	Handle (Push Button).....	1	1

DOOR GLASS

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
32	1495372	Seal	1	1
33	1495431	Seal	1	1
34	1495432	Bolt	1	1
35	1468321	Washer	1	1
36	1493397	Cover	1	1
	1495436	Latch Assembly (Includes Items 23-30).....	1	..
	1495439	Latch Assembly (Includes Items 23-30).....	..	1
	1495433	Push Button Handle Assembly (Includes Items 31-36)	1	1

DOOR (Figure 1-8) STEEL (⇒S/N E019E02149B)



HP120629

**DOOR
STEEL
(⇒S/N E019E02149B)**

KEY:**A: Right Hand****B: Left Hand**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1480218	Door Assembly (LH) .....	..	1
	1507006	Key.....	..	1
	1480219	Door Assembly (RH).....	1	..
	1507006	Key.....	1	..
1	1506803	Frame	1	..
1	1506798	Frame .....	..	1
1	1515337	Seal	AR	AR
2	1506804	Sliding Window.....	1	..
2	1506799	Sliding Window.....	..	1
3	1393476	Activator	4	4
4	1393477	Primer.....	AR	AR
5	a 1393475	Glue.....	AR	AR
6	1506800	Window (Door)	1	1
7	1506801	Terminal.....	AR	AR
8	1393466	Seal	AR	AR
9	1506805	Encasement (Door)	1	..
9	1506802	Encasement (Door) .....	..	1
10	287854	Capscrew	1	1
11	320160	Washer	2	2
12	1493501	Nut.....	1	1
13	1493312	Cap.....	2	2
14	1497241	Hold-Open	1	..
14	1495453	Hold-Open .....	..	1
15	1495456	Washer	1	1
16	1495454	Seal	1	1
17	1495432	Bolt	3	3
18	320156	Washer	3	3
19	a 1507006	Key	1	1
20	1495434	Latch And Handle.....	1	..
20	1495437	Latch And Handle.....	..	1
21	1495435	Cover.....	1	..
21	1495438	Cover.....	..	1
22	296229	Capscrew	2	2
23	a 1495459	Bushing	1	1
24	a 1495460	Bushing	1	1
25	a 1495462	Bolt	2	2
26	a 1495463	Washer	2	2
27	1495371	Handle (Push Button).....	1	1
28	1495372	Seal	1	1
29	1495431	Seal	1	1
30	1495432	Bolt	1	1
31	1468321	Washer	1	1
	1495433	Push Button Handle Assembly (Includes Items 27-31)	1	1

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