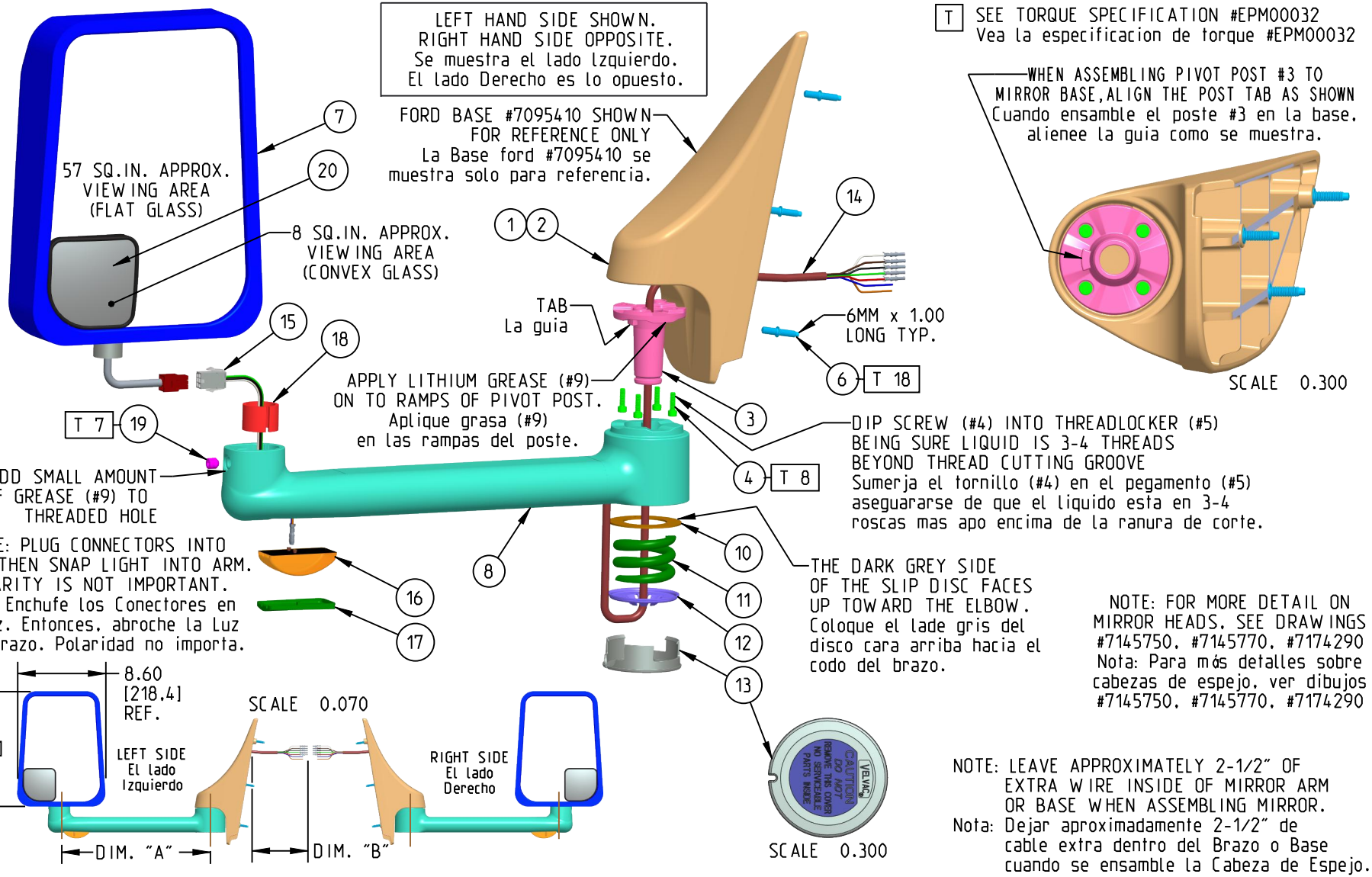
LEFT HAND SIDE SHOWN.
RIGHT HAND SIDE OPPOSITE.
Se muestra el lado Izquierdo.
El lado Derecho es lo opuesto.

T SEE TORQUE SPECIFICATION #EPM00032
Vea la especificacion de torque #EPM00032



NOTE: FOR MORE DETAIL ON
MIRROR HEADS, SEE DRAWINGS
#7145750, #7145770, #7174290
Nota: Para más detalles sobre
cabezas de espejo, ver dibujos
#7145750, #7145770, #7174290

NOTE: LEAVE APPROXIMATELY 2-1/2" OF
EXTRA WIRE INSIDE OF MIRROR ARM
OR BASE WHEN ASSEMBLING MIRROR.
Nota: Dejar aproximadamente 2-1/2" de
cable extra dentro del Brazo o Base
cuando se ensamble la Cabeza de Espejo.

▲	15	3944	44	ADDED ASSY'S #715707, 715708 AND 715709 ON NEW SHEET #8	04-23-18	SAS
		3950	45	ADDED ASSY'S #715710, 715711 AND 715712 ON NEW SHEET #8		
			46	UPDATED FORMAT, MIGRATE TO WINDCHILL		
▲	16	17147	47	ADDED NOTE TO ADD GREASE ITEM #9 TO THREADED HOLE FOR ITEM #19	08-10-18	JJS
▲	17	4061	48	ADDED ASSY'S #720528, 720529 AND 720530 ON SHEET #9	08-22-19	SAS

FUNCTIONAL REVISIONS: ALL REVISIONS WITH SOLID TRIANGLE ARE USABLE
Revisiones Funcionales: Todas las revisiones con Triangulos Solidos son utilizables

UNITS ARE inch [mm]
TOLERANCE FOR PRIMARY UNITS
2 DECIMAL ±.01
3 DECIMAL ±.005
ANGULAR ±1°
UNLESS OTHERWISE SPECIFIED

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VELVAC®

REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS

DATE: 03-26-99 | SHEET 1 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

FORD ECONOLINE 1992-2002 VERSION (SEE BOM ON SHEET #5)

*ASSEMBLY NO. (PAIR)	*ASSEMBLY NO. (SIDES)	PACKAGING	SIDE	FINISH	VEHICLE APPLICATION (BODY WIDTH)	ARM LENGTH (DIM"A") REF.	WIRE LENGTH (DIM"B") ±1.0"
714479	714480	INDIVIDUAL	RIGHT	BLACK	86"	9.50"	-
	714481		LEFT				
714482	714484	INDIVIDUAL	RIGHT	BLACK	96"	14.50"	-
	714483		LEFT				
714482-6	-	BULK	-				
714485	714486	INDIVIDUAL	RIGHT	BLACK	102"	17.50"	-
	714487		LEFT				
714488	714490	INDIVIDUAL	RIGHT	WHITE	96"	14.50"	-
	714489		LEFT				
714491	714492	INDIVIDUAL	RIGHT	WHITE	102"	17.50"	-
	714493		LEFT				
714595	714596	INDIVIDUAL	RIGHT	WHITE	86"	9.50"	-
	714597		LEFT				
714494	714496	INDIVIDUAL	RIGHT	BLACK	86"	9.50"	36.00"
	714495		LEFT				
714497	714498	INDIVIDUAL	RIGHT	BLACK	96"	14.50"	31.00"
	714499		LEFT				
714500	714502	INDIVIDUAL	RIGHT	BLACK	102"	17.50"	28.00"
	714501		LEFT				
714503	714504	INDIVIDUAL	RIGHT	WHITE	96"	14.50"	31.00"
	714505		LEFT				
714506	714508	INDIVIDUAL	RIGHT	WHITE	102"	17.50"	28.00"
	714507		LEFT				
714598	714600	INDIVIDUAL	RIGHT	WHITE	86"	9.50"	36.00"
	714599		LEFT				
714509	714510	INDIVIDUAL	RIGHT	BLACK	96"	14.50"	31.00"
	714511		LEFT				
714512	714514	INDIVIDUAL	RIGHT	BLACK	102"	17.50"	28.00"
	714513		LEFT				

FORD SUPER DUTY VERSION (SEE BOM ON SHEET #6)

*ASSEMBLY NO. (PAIR) INDIVIDUAL	*ASSEMBLY NO. (PAIR) BULK	*ASSEMBLY NO. (SIDES) INDIVIDUAL	*ASSEMBLY NO. (SIDES) BULK	SIDE	FINISH	VEHICLE APPLICATION (BODY WIDTH)	ARM LENGTH (DIM"A") REF.	WIRE LENGTH (DIM"B") ±1.0"
714527	714527-6	714528	714528-6	RIGHT	BLACK	96"	14.50"	-
		714529	714529-6	LEFT				
714530	714530-6	714532	714532-6	RIGHT	BLACK	102"	17.50"	-
		714531	714531-6	LEFT				
715141	-	715154	-	RIGHT	BLACK	86"	9.50"	-
		715153	-	LEFT				
714533	714533-6	714534	714534-6	RIGHT	BLACK	96"	14.50"	31.00"
		714535	714535-6	LEFT				
714536	714536-6	714538	714538-6	RIGHT	BLACK	102"	17.50"	28.00"
		714537	714537-6	LEFT				
714539	714539-6	714540	714540-6	RIGHT	BLACK	96"	14.50"	31.00"
		714541	714541-6	LEFT				
714542	714542-6	714544	714544-6	RIGHT	BLACK	102"	17.50"	28.00"
		714543	714543-6	LEFT				

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]

TOLERANCE FOR PRIMARY UNITS

2 DECIMAL ±.01
3 DECIMAL ±.005
ANGULAR ±1°
UNLESS OTHERWISE SPECIFIED

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VELVAC®

REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS

DATE: 03-26-99 | SHEET 2 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

CHEVY G-VAN VERSION (SEE BOM ON SHEET #7 & #8)

*ASSEMBLY NO. (PAIR) INDIVIDUAL	*ASSEMBLY NO. (PAIR) BULK	*ASSEMBLY NO. (SIDES) INDIVIDUAL	*ASSEMBLY NO. (SIDES) BULK	SIDE	FINISH	VEHICLE APPLICATION (BODY WIDTH)	ARM LENGTH (DIM"A") REF.	WIRE LENGTH (DIM"B") ±1.0"
714557	714557-6	714558	714558-6	RIGHT	BLACK	96"	14.50"	-
		714559	714559-6	LEFT				
714560	714560-6	714562	714562-6	RIGHT	BLACK	102"	17.50"	-
		714561	714561-6	LEFT				
714601	714601-6	714602	714602-6	RIGHT	BLACK	86"	9.50"	-
		714603	714603-6	LEFT				
714910	714910-6	714912	714912-6	RIGHT	WHITE	96"	14.50"	-
		714911	714911-6	LEFT				
714913	714913-6	714914	714914-6	RIGHT	WHITE	102"	17.50"	-
		714915	714915-6	LEFT				
715692	715692-6	715694	715694-6	RIGHT	WHITE	86"	9.50"	-
		715693	715693-6	LEFT				
714604	-	714606	-	RIGHT	BLACK	86"	9.50"	36.00"
		714605	-	LEFT				
714563	714563-6	714564	714564-6	RIGHT	BLACK	96"	14.50"	31.00"
		714565	714565-6	LEFT				
714566	714566-6	714568	714568-6	RIGHT	BLACK	102"	17.50"	28.00"
		714567	714567-6	LEFT				
714916	714916-6	714918	714918-6	RIGHT	WHITE	96"	14.50"	31.00"
		714917	714917-6	LEFT				
714919	714919-6	714920	714920-6	RIGHT	WHITE	102"	17.50"	28.00"
		714921	714921-6	LEFT				
715695	715695-6	715696	715696-6	RIGHT	WHITE	86"	9.50"	36.00"
		715697	715697-6	LEFT				
714569	714569-6	714570	714570-6	RIGHT	BLACK	96"	14.50"	31.00"
		714571	714571-6	LEFT				
714572	714572-6	714574	714574-6	RIGHT	BLACK	102"	17.50"	28.00"
		714573	714573-6	LEFT				
718232	718232-6	718234	-	RIGHT	BLACK	102"	17.50"	28.00"
		718233	-	LEFT				
44 715707	715707-6	715708	715708-6	RIGHT	BLACK	96"	14.50"	31.00"
		715709	715709-6	LEFT				
45 715710	-	715712	-	RIGHT	BLACK	86"	9.50"	36.00"
		715711	-	LEFT				

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]

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ANGULAR ±1°
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REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS

DATE: 03-26-99 | SHEET 3 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

FORD ECONOLINE 2003 AND NEWER VERSION (SEE BOM ON SHEET #9)

*ASSEMBLY NO. (PAIR) INDIVIDUAL	*ASSEMBLY NO. (PAIR) BULK	*ASSEMBLY NO. (SIDES) INDIVIDUAL	*ASSEMBLY NO. (SIDES) BULK	SIDE	FINISH	VEHICLE APPLICATION (BODY WIDTH)	ARM LENGTH (DIM"A") REF.	WIRE LENGTH (DIM"B") ±1.0"
715401	715401-6	715402	715402-6	RIGHT	BLACK	86"	9.50"	-
		715403	715403-6	LEFT				
715407	715407-6	715408	715408-6	RIGHT	BLACK	102"	17.50"	-
		715409	715409-6	LEFT				
715410	715410-6	715412	715412-6	RIGHT	WHITE	86"	9.50"	-
		715411	715411-6	LEFT				
715413	715413-6	715414	715414-6	RIGHT	WHITE	96"	14.50"	-
		715415	715415-6	LEFT				
715416	715416-6	715418	715418-6	RIGHT	WHITE	102"	17.50"	-
		715417	715417-6	LEFT				
715404	715404-6	715406	715406-6	RIGHT	BLACK	96"	14.50"	-
		715405	715405-6	LEFT				
715419	715419-6	715420	715420-6	RIGHT	BLACK	86"	9.50"	36.00"
		715421	715421-6	LEFT				
715422	715422-6	715424	715424-6	RIGHT	BLACK	96"	14.50"	31.00"
		715423	715423-6	LEFT				
715425	715425-6	715426	715426-6	RIGHT	BLACK	102"	17.50"	28.00"
		715427	715427-6	LEFT				
715428	715428-6	715430	715430-6	RIGHT	WHITE	86"	9.50"	36.00"
		715429	715429-6	LEFT				
715431	715431-6	715432	715432-6	RIGHT	WHITE	96"	14.50"	31.00"
		715433	715433-6	LEFT				
715434	715434-6	715436	715436-6	RIGHT	WHITE	102"	17.50"	28.00"
		715435	715435-6	LEFT				
-	-	715682	715682-6	RIGHT	SILVER	96"	14.50"	31.00"
		715681	715681-6	LEFT				
-	-	715744	715744-6	RIGHT	SILVER	102"	17.50"	28.00"
		715745	715745-6	LEFT				
715455	715455-6	715456	715456-6	RIGHT	BLACK	96"	14.50"	31.00"
		715457	715457-6	LEFT				
715458	715458-6	715460	715460-6	RIGHT	BLACK	102"	17.50"	28.00"
		715459	715459-6	LEFT				
717441	717441-6	717442	-	RIGHT	BLACK	102"	17.50"	28.00"
		717443	-	LEFT				
720528 ⚠48	-	720530	-	RIGHT	BLACK	86"	9.50"	36.00"
		720529	-	LEFT				

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]

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ANGULAR ±1°
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REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS

DATE: 03-26-99 | SHEET 4 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

MODEL 2020 MIRROR ASSEMBLY
STANDARD HEAD
FORD ECONOLINE 92-02 VERSION

NO.	PR	RH	LH	DESCRIPTION	MAT	SIDE	BLACK			WHITE			BLACK			WHITE			BLACK	
						PAIR	714479	714482	714485	714488	714491	714595	714494	714497	714500	714503	714506	714598	714509	714512
						RIGHT	714480	714484	714486	714490	714492	714596	714496	714498	714502	714504	714508	714600	714510	714514
						LEFT	714481	714483	714487	714489	714493	714597	714495	714499	714501	714505	714507	714599	714511	714513
							PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
				ASSEMBLE ITEMS #1 THRU #20 Componentes del #1 al #20 ensamblados																
1	1	1		MIRROR BASE - RH	ALM		K7095400	K7095400	K7095400	L7095400	L7095400	L7095400	K7095400	K7095400	K7095400	L7095400	L7095400	L7095400	K7095400	K7095400
2	1		1	MIRROR BASE - LH	ALM		K7095410	K7095410	K7095410	L7095410	L7095410	L7095410	K7095410	K7095410	K7095410	L7095410	L7095410	L7095410	K7095410	K7095410
3	2	1	1	PIVOT POST	ALM		7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420
4	8	4	4	SOCKET HEAD CAP SCREW #10-32X5/8	CRS		4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940
5	.004	.002	.002	LOCTITE "262" THREADLOCKER			3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720
6	6	3	3	MOUNTING STUDS 1/4-20X6MM	CRS		4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690
	8	4	4																	
7	2	1	1	STANDARD MIRROR HEAD			7145750	7145750	7145750	7145760	7145760	7145760	7145770	7145770	7145770	7145780	7145780	7145780	7145770	7145770
8	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 9.5" LONG			K7095920					L7095920	K7095920					L7095920		
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 14.5" LONG				K7095930		L7095930				K7095930		L7095930			K7095930	
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 17.5" LONG					K7095940		L7095940				K7095940		L7095940			K7095940
9	.030	.015	.015	GREEN LITHIUM GREASE			3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980
10	2	1	1	SLIP DISC			7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460
11	2	1	1	PRESET SPRING			7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440
12	2	1	1	RETAINER CAP	STL		7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450
13	2	1	1	PIVOT ELBOW CAP	PLS		7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470
14	2	1	1	3-COND WIRE HARNESS ASSY																
	2	1	1	5-COND WIRE HARNESS ASSY									7477390	7477390	7477390	7477390	7477390	7477390		
	2	1	1	7-COND WIRE HARNESS ASSY															7451560	7451560
15	2	1	1	6-WAY FEMALE MINI AMP HOUSING									7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120
16	2	1	1	MARKER LIGHT, LENS W/BULB															7475510	7475510
17	2	1	1	CAP, NON-LIGHTED ELBOW	PLS		7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570		
18	2	1	1	BUSHING			7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550
19	2	1	1	SET SCREW 3/8-16X3/8	SS		S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440
20	2	1	1	CONVEX WEDGE MIRROR			7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680
				ITEMS #21 THRU #27 ARE NOT ASSEMBLED BUT INCLUDED IN CARTON Componentes del #21 al #27 sin ensamblar pero incluidos en la caja																
21		1	1	SIDE HDW KIT INCLUDING ITEM LISTED:			748401	748401	748401	748402	748402	748402	748401	748401	748401	748402	748402	748402	748401	748401
		1	1	SET SCREW CAP			Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970
22	2			PAIR HDW KIT INCLUDING ITEM LISTED:			748401	748401	748401	748402	748402	748402	748401	748401	748401	748402	748402	748402	748401	748401
	2			SET SCREW CAP			Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970
	6			SEMS HEX NUT 6MM																
23		1	1	BULK SIDE HDW KIT INCLUDING ITEM LISTED:																
				SET SCREW CAP																
24	1			BULK PAIR HDW KIT INCLUDING ITEM LISTED:																
	24			SET SCREW CAP																
	72			SEMS HEX NUT 6MM																
25	2	1	1	BASE GASKET																
26	1			HEATED/REMOTE SWITCH ASSEMBLY									747524	747524	747524	747524	747524	747524	747524	747524
27	1			HEATED/REMOTE HARNESS KIT									748304	748304	748304	748304	748304	748304	748304	748304

HARDWARE KIT FOR INDIVIDUAL PACKS AS LISTED.
HARDWARE KIT FOR BULK PACK IS 748403.
Kit de tornilleria para empaque individual como viene listado.
Kit de tornilleria para empaque en bulto es 748403.

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]

TOLERANCE FOR PRIMARY UNITS

2 DECIMAL ±.01
3 DECIMAL ±.005
ANGULAR ±1°
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VELVAC®

REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS

DATE: 03-26-99 | SHEET 5 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

MODEL 2020 MIRROR ASSEMBLY
STANDARD HEAD
FORD SUPER DUTY VERSION

NO.	PR	RH	LH	DESCRIPTION	MAT	SIDE	BLACK			BLACK		BLACK	
						PAIR	714527	714530	715141	714533	714536	714539	714542
						RIGHT	714528	714532	715154	714534	714538	714540	714544
						LEFT	714529	714531	715153	714535	714537	714541	714543
							PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
				ASSEMBLE ITEMS #1 THRU #20 Componentes del #1 al #20 ensamblados									
1	1	1		MIRROR BASE - RH	ALM		K7095360	K7095360	K7095360	K7095360	K7095360	K7095360	K7095360
2	1		1	MIRROR BASE - LH	ALM		K7095370	K7095370	K7095370	K7095370	K7095370	K7095370	K7095370
3	2	1	1	PIVOT POST	ALM		7095420	7095420	7095420	7095420	7095420	7095420	7095420
4	8	4	4	SOCKET HEAD CAP SCREW #10-32X5/8	CRS		4081940	4081940	4081940	4081940	4081940	4081940	4081940
5	.004	.002	.002	LOCTITE "262" THREADLOCKER			3541720	3541720	3541720	3541720	3541720	3541720	3541720
6	6	3	3	MOUNTING STUDS 1/4-20X6MM	CRS								
	8	4	4				4081690	4081690	4081690	4081690	4081690	4081690	4081690
7	2	1	1	STANDARD MIRROR HEAD			7145750	7145750	7145750	7145770	7145770	7145770	7145770
8	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 9.5" LONG					K7095920				
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 14.5" LONG			K7095930			K7095930		K7095930	
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 17.5" LONG				K7095940			K7095940		K7095940
9	.030	.015	.015	GREEN LITHIUM GREASE			3541980	3541980	3541980	3541980	3541980	3541980	3541980
10	2	1	1	SLIP DISC			7095460	7095460	7095460	7095460	7095460	7095460	7095460
11	2	1	1	PRESET SPRING			7095440	7095440	7095440	7095440	7095440	7095440	7095440
12	2	1	1	RETAINER CAP	STL		7095450	7095450	7095450	7095450	7095450	7095450	7095450
13	2	1	1	PIVOT ELBOW CAP	PLS		7095470	7095470	7095470	7095470	7095470	7095470	7095470
14	2	1	1	3-COND WIRE HARNESS ASSY									
	2	1	1	5-COND WIRE HARNESS ASSY						7477390	7477390		
	2	1	1	7-COND WIRE HARNESS ASSY								7451560	7451560
15	2	1	1	6-WAY FEMALE MINI AMP HOUSING						7476120	7476120	7476120	7476120
16	2	1	1	MARKER LIGHT, LENS W/BULB								7475510	7475510
17	2	1	1	CAP, NON-LIGHTED ELBOW	PLS		7095570	7095570	7095570	7095570	7095570		
18	2	1	1	BUSHING			7095550	7095550	7095550	7095550	7095550	7095550	7095550
19	2	1	1	SET SCREW 3/8-16X3/8	SS		S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440
20	2	1	1	CONVEX WEDGE MIRROR			7230680	7230680	7230680	7230680	7230680	7230680	7230680
				ITEMS #21 THRU #27 ARE NOT ASSEMBLED BUT INCLUDED IN CARTON Componentes del #21 al #27 sin ensamblar pero incluidos en la caja									
21		1	1	SIDE HDW KIT INCLUDING ITEM LISTED:			748401	748401	748401	748401	748401	748401	748401
		1	1	SET SCREW CAP			Q7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970
22	2			PAIR HDW KIT INCLUDING ITEM LISTED:			748401	748401	748401	748401	748401	748401	748401
	2			SET SCREW CAP			Q7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970
	8			SEMS HEX NUT 6MM									
23		1	1	BULK SIDE HDW KIT INCLUDING ITEM LISTED:									
				SET SCREW CAP									
24	1			BULK PAIR HDW KIT INCLUDING ITEM LISTED:									
	48			SET SCREW CAP									
	192			SEMS HEX NUT 6MM									
25	2	1	1	BASE GASKET									
26	1			HEATED/REMOTE SWITCH ASSEMBLY						747633	747633	747633	747633
27	1			HEATED/REMOTE HARNESS KIT						748304	748304	748304	748304

HARDWARE KIT FOR INDIVIDUAL PACKS AS LISTED.
HARDWARE KIT FOR BULK PACK IS 748403.
Kit de tornilleria para empaque individual como viene listado.
Kit de tornilleria para empaque en bulto es 748403.

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]
TOLERANCE FOR PRIMARY UNITS
2 DECIMAL ±.01
3 DECIMAL ±.005
ANGULAR ±1°
UNLESS OTHERWISE SPECIFIED

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REV 17

MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS
DATE: 03-26-99 | SHEET 6 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

MODEL 2020 MIRROR ASSEMBLY
STANDARD HEAD
CHEVY G-VAN VERSION

NO.	PR	RH	LH	DESCRIPTION	MAT	SIDE	BLACK				BLACK		WHITE			BLACK			WHITE			BLACK		BLACK
						PAIR	714557	714557-6			714560	714601	714910	714913	715692	714563	714566	714604	714916	714919	715695	714569	714572	718232
						RIGHT			714558	714558-6	714562	714602	714912	714914	715694	714564	714568	714606	714918	714920	715696	714570	714574	718234
						LEFT			714559	714559-6	714561	714603	714911	714915	715693	714565	714567	714605	714917	714921	715697	714571	714573	718233
				ASSEMBLE ITEMS #1 THRU #20 Componentes del # 1 al #20 ensamblados																					
1	1	1		MIRROR BASE - RH	ALM		K7099060	K7099060	K7099060	K7099060	K7099060	K7099060	L7099060	L7099060	L7099060	K7099060	K7099060	K7099060	L7099060	L7099060	L7099060	K7099060	K7099060	K7099060
2	1		1	MIRROR BASE - LH	ALM		K7099070	K7099070	K7099070	K7099070	K7099070	K7099070	L7099070	L7099070	L7099070	K7099070	K7099070	K7099070	L7099070	L7099070	L7099070	K7099070	K7099070	K7099070
3	2	1	1	PIVOT POST	ALM		7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420
4	8	4	4	SOCKET HEAD CAP SCREW #10-32X5/8	CRS		4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940
5	.004	.002	.002	LOCTITE "262" THREADLOCKER			3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720
6	6	3	3	MOUNTING STUDS 1/4-20X6MM	CRS		4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690
	8	4	4																					
7	2	1	1	STANDARD MIRROR HEAD			7145750	7145750	7145750	7145750	7145750	7145750	7145760	7145760	7145760	7145770	7145770	7145770	7145780	7145780	7145780	7145770	7145770	7174290
8	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 9.5" LONG								K7095920			L7095920			K7095920			L7095920			
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 14.5" LONG			K7095930	K7095930	K7095930	K7095930			L7095930			K7095930			L7095930			K7095930		
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 17.5" LONG							K7095940			L7095940			K7095940			L7095940			K7095940	K7095940
9	.030	.015	.015	GREEN LITHIUM GREASE			3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980
10	2	1	1	SLIP DISC			7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460
11	2	1	1	PRESET SPRING			7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440
12	2	1	1	RETAINER CAP	STL		7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450
13	2	1	1	PIVOT ELBOW CAP	PLS		7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470
14	2	1	1	3-COND WIRE HARNESS ASSY																				7451070
	2	1	1	5-COND WIRE HARNESS ASSY												7477390	7477390	7477390	7477390	7477390	7477390			
	2	1	1	7-COND WIRE HARNESS ASSY																		7451560	7451560	
15	2	1	1	6-WAY FEMALE MINI AMP HOUSING												7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120
16	2	1	1	MARKER LIGHT, LENS W/BULB																		7475510	7475510	
17	2	1	1	CAP, NON-LIGHTED ELBOW	PLS		7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570			7095570
18	2	1	1	BUSHING			7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550
19	2	1	1	SET SCREW 3/8-16X3/8	SS		S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440
20	2	1	1	CONVEX WEDGE MIRROR			7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680
				ITEMS #21 THRU #27 ARE NOT ASSEMBLED BUT INCLUDED IN CARTON Componentes del #21 al #27 sin ensamblar pero incluidos en la caja																					
21		1	1	SIDE HDW KIT INCLUDING ITEM LISTED:					748401		748401	748401	748402	748402	748402	748401	748401	748401	748402	748402	748402	748401	748401	748401
		1	1	SET SCREW CAP					Q7095970		Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970
22	2			PAIR HDW KIT INCLUDING ITEM LISTED:			748433				748401	748401	748402	748402	748402	748401	748401	748401	748402	748402	748402	748401	748401	748401
	2			SET SCREW CAP			Q7095970				Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970
	6			SEMS HEX NUT 6MM			4040020																	
23		1	1	BULK SIDE HDW KIT INCLUDING ITEM LISTED						748403														
		24	24	SET SCREW CAP						Q7095970														
24	1			BULK PAIR HDW KIT INCLUDING ITEM LISTED				748450																
	24			SET SCREW CAP				Q7095970																
	72			SEMS HEX NUT 6MM				4040020																
25	2	1	1	BASE GASKET																				
26	1			HEATED/REMOTE SWITCH ASSEMBLY												747632	747632	747632	747632	747632	747632	747632	747632	745235
27	1			HEATED/REMOTE HARNESS KIT												748304	748304	748304	748304	748304	748304	748304	748304	745108

HARDWARE KIT FOR INDIVIDUAL PACKS AS LISTED.
HARDWARE KIT FOR BULK PACK IS 748403 (BLACK) OR 748404 (WHITE).
Kit de tornilleria para empaque individual como viene listado.
Kit de tornilleria para empaque en bulto es 748403 (negro) o 748404 (blanco).

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]
TOLERANCE FOR PRIMARY UNITS
2 DECIMAL ±.01
3 DECIMAL ±.005
ANGULAR ±1°
UNLESS OTHERWISE SPECIFIED

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REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS
DATE: 03-26-99 | SHEET 7 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

MODEL 2020 MIRROR ASSEMBLY STANDARD HEAD CHEVY G-VAN VERSION					SIDE	BLACK	
					PAIR	715707 4	715710 5
					RIGHT	715708	715712
					LEFT	715709	715711
NO.	PR	RH	LH	DESCRIPTION	MAT	PART NO.	PART NO.
ASSEMBLE ITEMS #1 THRU #20 Componentes del #1 al #20 ensamblados							
1	1	1		MIRROR BASE - RH	ALM	K7099060	K7099060
2	1		1	MIRROR BASE - LH	ALM	K7099070	K7099070
3	2	1	1	PIVOT POST	ALM	7095420	7095420
4	8	4	4	SOCKET HEAD CAP SCREW #10-32X5/8	CRS	4081940	4081940
5	.004	.002	.002	LOCTITE "262" THREADLOCKER		3541720	3541720
6	6	3	3	MOUNTING STUDS 1/4-20X6MM	CRS	4081690	4081690
	8	4	4				
7	2	1	1	STANDARD MIRROR HEAD		7145770	7145770
8	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 9.5" LONG			K7095920
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 14.5" LONG		K7095930	
	2	1	1	PIVOT ELBOW/ARM ASSEMBLY 17.5" LONG			
9	.030	.015	.015	GREEN LITHIUM GREASE		3541980	3541980
10	2	1	1	SLIP DISC		7095460	7095460
11	2	1	1	PRESET SPRING		7095440	7095440
12	2	1	1	RETAINER CAP	STL	7095450	7095450
13	2	1	1	PIVOT ELBOW CAP	PLS	7095470	7095470
14	2	1	1	3-COND WIRE HARNESS ASSY			
	2	1	1	5-COND WIRE HARNESS ASSY		7477390	7477390
	2	1	1	7-COND WIRE HARNESS ASSY			
15	2	1	1	6-WAY FEMALE MINI AMP HOUSING		7476120	7476120
16	2	1	1	MARKER LIGHT, LENS W/BULB			
17	2	1	1	CAP, NON-LIGHTED ELBOW	PLS	7095570	7095570
18	2	1	1	BUSHING		7095550	7095550
19	2	1	1	SET SCREW 3/8-16X3/8	SS	S4081440	S4081440
20	2	1	1	CONVEX WEDGE MIRROR			
ITEMS #21 THRU #27 ARE NOT ASSEMBLED BUT INCLUDED IN CARTON Componentes del #21 al #27 sin ensamblar pero incluidos en la caja							
21		1	1	SIDE HDW KIT INCLUDING ITEM LISTED:		748401	748401
		1	1	SET SCREW CAP		Q7095970	Q7095970
22	2			PAIR HDW KIT INCLUDING ITEM LISTED:		748401	748401
	2			SET SCREW CAP		Q7095970	Q7095970
	6			SEMS HEX NUT 6MM			
23		1	1	BULK SIDE HDW KIT INCLUDING ITEM LISTED:			
		24	24	SET SCREW CAP			
24	1			BULK PAIR HDW KIT INCLUDING ITEM LISTED:			
	24			SET SCREW CAP			
	72			SEMS HEX NUT 6MM			
25	2	1	1	BASE GASKET			
26	1			HEATED/REMOTE SWITCH ASSEMBLY		747632	747632
27	1			HEATED/REMOTE HARNESS KIT		748304	748304

HARDWARE KIT FOR INDIVIDUAL PACKS AS LISTED.
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Kit de tornilleria para empaque individual como viene listado.
Kit de tornilleria para empaque en bulto es 748403 (negro) o 748404 (blanco).

FOR REVISIONS SEE SHEET ONE

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REV 17

◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS | DATE: 03-26-99 | SHEET 8 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

DRAWING NO
*7145090

MODEL 2020 MIRROR ASSEMBLY
STANDARD HEAD
FORD ECONOLINE 2003 AND NEWER VERSION

NO.	PR	RH	LH	DESCRIPTION	MAT	SIDE	BLACK		WHITE			BLACK		BLACK			WHITE			SILVER		BLACK		BLACK	BLACK
						PAIR	715401	715407	715410	715413	715416	715404	715404-6	715419	715422	715425	715428	715431	715434			715455	715458	717441	720528
						RIGHT	715402	715408	715412	715414	715418	715406	715406-6	715420	715424	715426	715430	715432	715436	715682	715744	715456	715460	717442	720530
						LEFT	715403	715409	715411	715415	715417	715405	715405-6	715421	715423	715427	715429	715433	715435	715681	715745	715457	715459	717443	720529
				ASSEMBLE ITEMS #1 THRU #20 Componentes del # 1 al #20 ensamblados																					
1	1	1		MIRROR BASE - RH	ALM		K7095000	K7095000	L7095000	L7095000	L7095000	K7095000	K7095000	K7095000	K7095000	K7095000	L7095000	L7095000	L7095000	Z7095000	Z7095000	K7095000	K7095000	K7095000	K7095000
2	1		1	MIRROR BASE - LH	ALM		K7094990	K7094990	L7094990	L7094990	L7094990	K7094990	K7094990	K7094990	K7094990	K7094990	L7094990	L7094990	L7094990	Z7094990	Z7094990	K7094990	K7094990	K7094990	K7094990
3	2	1	1	PIVOT POST	ALM		7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420	7095420
4	8	4	4	SOCKET HEAD CAP SCREW #10-32X5/8	CRS		4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940	4081940
5	.004	.002	.002	LOCTITE "262" THREADLOCKER			3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720	3541720
6	6	3	3	MOUNTING STUDS 1/4-20X6MM	CRS																				
	8	4	4				4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690	4081690
7	2	1	1	STANDARD MIRROR HEAD			7145750	7145750	7145760	7145760	7145760	7145750	7145750	7145770	7145770	7145770	7145780	7145780	7145780	7158290	7158290	7145770	7145770	7174290	7205270
8	2	1	1	PIVOT ELBOW/ARM ASSY 9.5" LONG			K7095920		L7095920					K7095920			L7095920								K7095920
	2	1	1	PIVOT ELBOW/ARM ASSY 14.5" LONG						L7095930		K7095930	K7095930		K7095930				L7095930		Z7095930		K7095930		
	2	1	1	PIVOT ELBOW/ARM ASSY 17.5" LONG				K7095940			L7095940					K7095940				L7095940		Z7095940		K7095940	K7095940	
9	.030	.015	.015	GREEN LITHIUM GREASE			3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980	3541980
10	2	1	1	SLIP DISC			7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460	7095460
11	2	1	1	PRESET SPRING			7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440	7095440
12	2	1	1	RETAINER CAP	STL		7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450	7095450
13	2	1	1	PIVOT ELBOW CAP	PLS		7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470	7095470
14	2	1	1	3-COND WIRE HARNESS ASSY																				7451070	
	2	1	1	5-COND WIRE HARNESS ASSY										7477390	7477390	7477390	7477390	7477390	7477390	7477390	7477390				7477390
	2	1	1	7-COND WIRE HARNESS ASSY																		7451560	7451560		
15	2	1	1	6-WAY FEMALE MINI AMP HOUSING										7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120	7476120
16	2	1	1	MARKER LIGHT, LENS W/BULB																		7475510	7475510		
17	2	1	1	CAP, NON-LIGHTED ELBOW	PLS		7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570	7095570			7095570	7095570
18	2	1	1	BUSHING			7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550	7095550
19	2	1	1	SET SCREW 3/8-16X3/8	SS		S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440	S4081440
20	2	1	1	CONVEX WEDGE MIRROR			7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680	7230680
				ITEMS #21 THRU #27 ARE NOT ASSEMBLED BUT INCLUDED IN CARTON Componentes del #21 al #27 sin ensamblar pero incluidos en																					
21		1	1	SIDE HDW KIT INCLUDE ITEM LISTED:			748401	748401	748402	748402	748402	748401		748401	748401	748401	748402	748402	748402	748401	748401	748401	748401	748401	748401
		1	1	SET SCREW CAP			Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970		Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970
22	2			PAIR HDW KIT INCLUDE ITEM LISTED:			748401	748401	748402	748402	748402	748449		748401	748401	748401	748402	748402	748402	748401	748401	748401	748401	748401	748401
	2			SET SCREW CAP			Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970		Q7095970	Q7095970	Q7095970	L7095970	L7095970	L7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970	Q7095970
	8			SEMS HEX NUT 6MM								4040020													
23		1	1	BULK SIDE HDW KIT INCLUDE ITEM:									748403												
		24	24	SET SCREW CAP									Q7095970												
24	1			BULK PAIR HDW KIT INCLUDE ITEM:									748451												
	48			SET SCREW CAP									Q7095970												
	192			SEMS HEX NUT 6MM									4040020												
25	2	1	1	BASE GASKET			7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430	7097430
26	1			HEATED/REMOTE SWITCH ASSEMBLY										747524	747524	747524	747524	747524	747524			747524	747524	747761	747524
27	1			HEATED/REMOTE HARNESS KIT										748304	748304	748304	748304	748304	748304			748304	748304	745108	748304

HARDWARE KIT FOR INDIVIDUAL PACKS AS LISTED.
HARDWARE KIT FOR BULK PACK IS 748403 (BLACK) OR 748404 (WHITE).
Kit de tornilleria para empaque individual como viene listado.
Kit de tornilleria para empaque en bulto es 748403 (negro) o 748404 (blanco).

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]

TOLERANCE FOR PRIMARY UNITS

2 DECIMAL ±.01
3 DECIMAL ±.005
ANGULAR ±1°
UNLESS OTHERWISE SPECIFIED

PROPRIETARY

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PRO

VELVAC®

REV 17

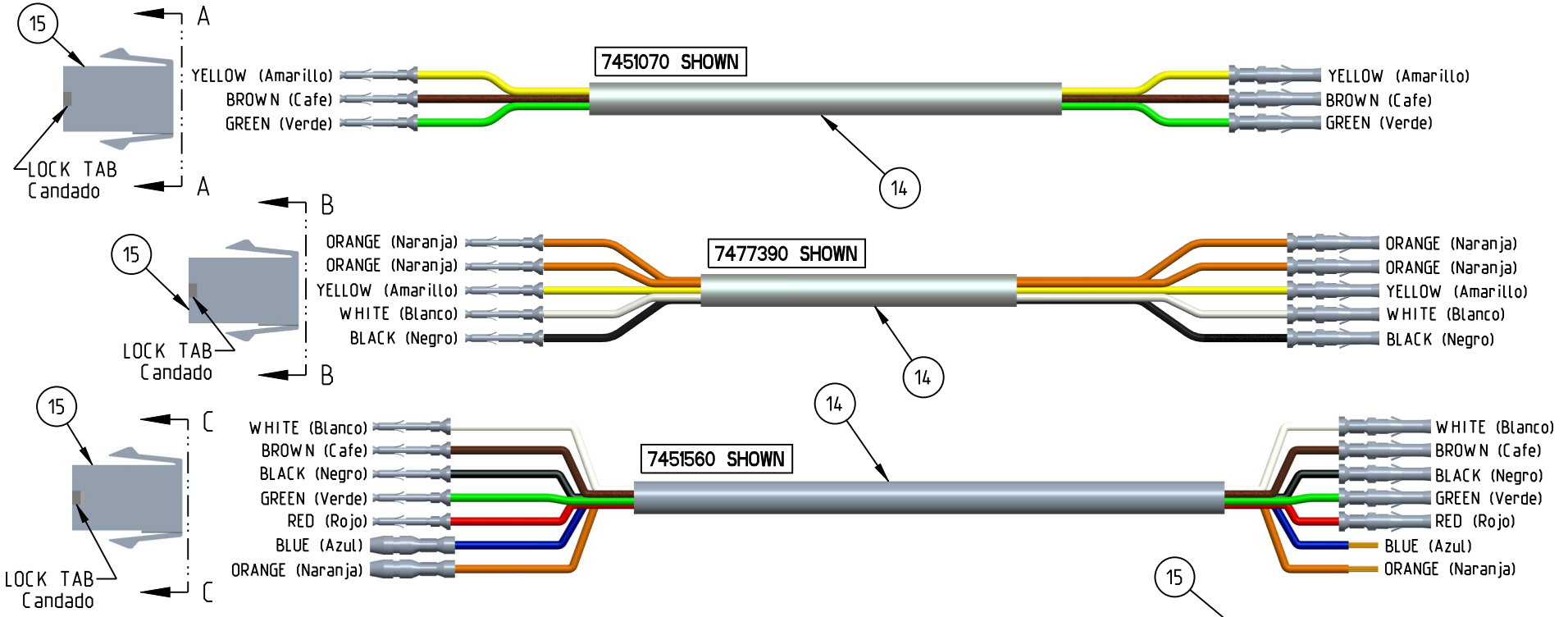
◇ MAJOR CHARACTERISTIC

SCALE: 0.200 | DRAWN BY JS

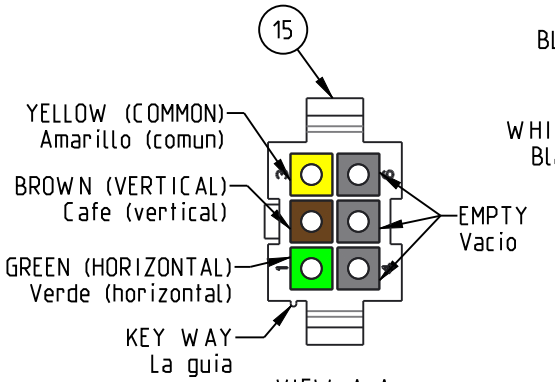
DATE: 03-26-99 | SHEET 9 OF 10

MIRROR ASSEMBLY
MODEL 2020
STANDARD HEAD

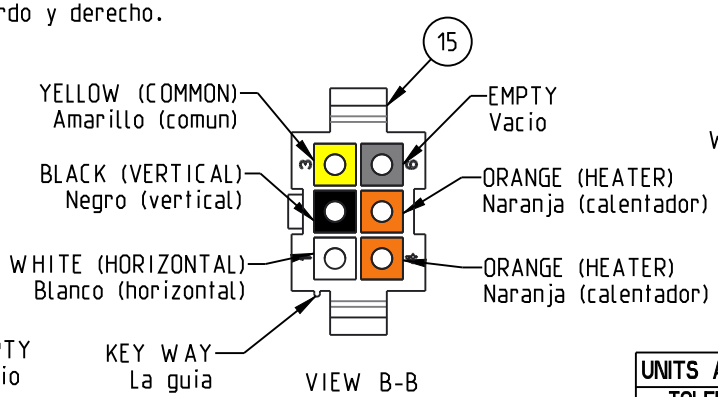
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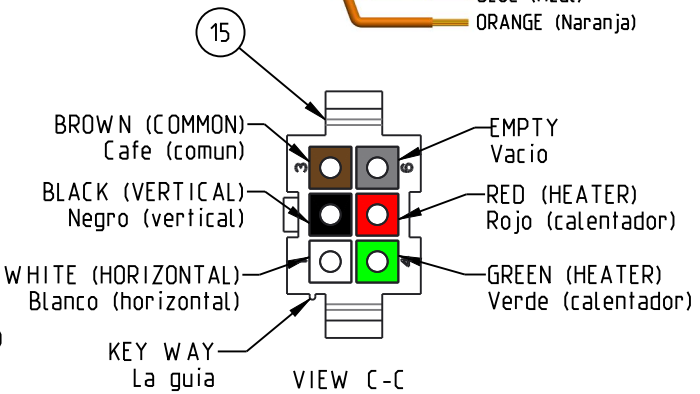
WIRING TYPICAL FOR BOTH LEFT AND RIGHT HAND SIDE.
Conexion tipica para ambos lados. Izquierdo y derecho.



VIEW A-A
SCALE 1.500
(BACK SIDE OF HOUSING)
(LA parte de atrás del housing)



VIEW B-B
SCALE 1.500
(BACK SIDE OF HOUSING)
(LA parte de atrás del housing)



VIEW C-C
SCALE 1.500
(BACK SIDE OF HOUSING)
(LA parte de atrás del housing)

FOR REVISIONS SEE SHEET ONE

UNITS ARE inch [mm]	PRO	VELVAC®	REV 17
TOLERANCE FOR PRIMARY UNITS 2 DECIMAL ±.01 3 DECIMAL ±.005 ANGULAR ±1° UNLESS OTHERWISE SPECIFIED	◇ MAJOR CHARACTERISTIC	SCALE: 0.750	DRAWN BY JS
		DATE: 03-26-99	SHEET 10 OF 10
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